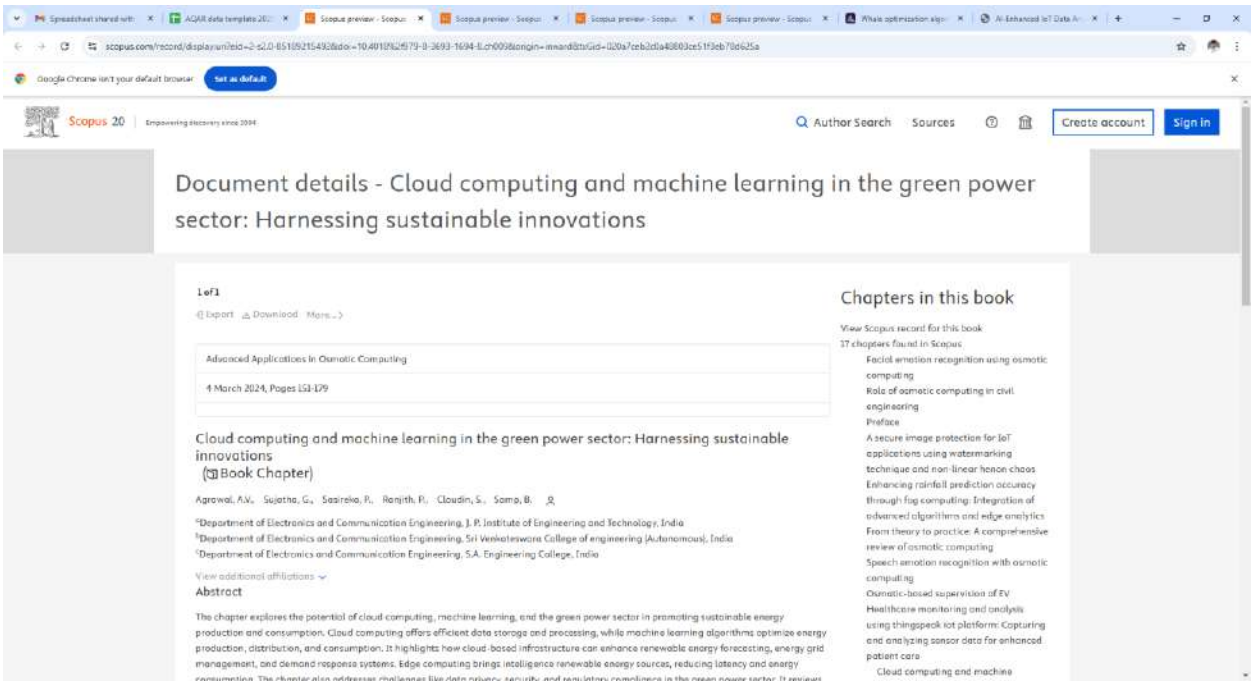
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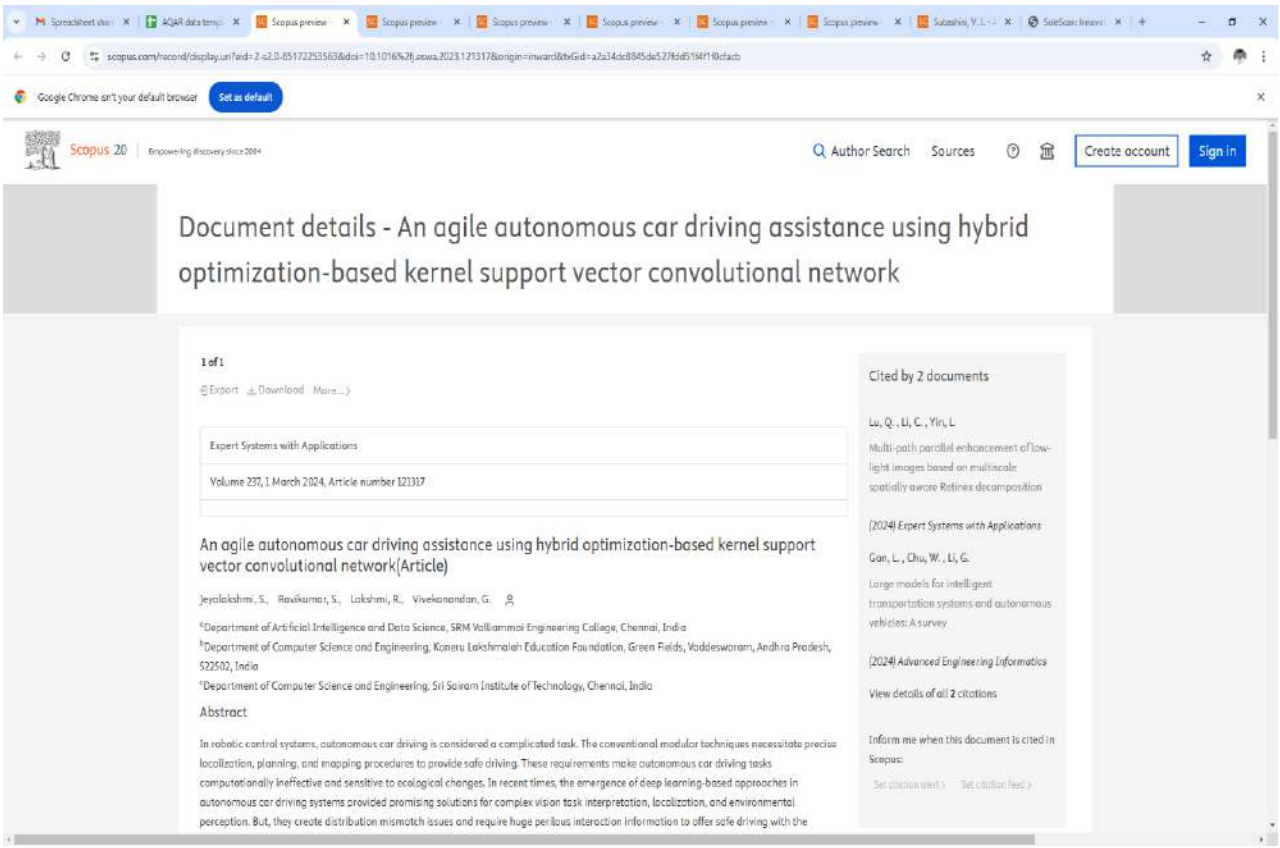
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Abstract
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Multi-path parallel enhancement of low-light images based on multiscale spatially aware Retinex decomposition
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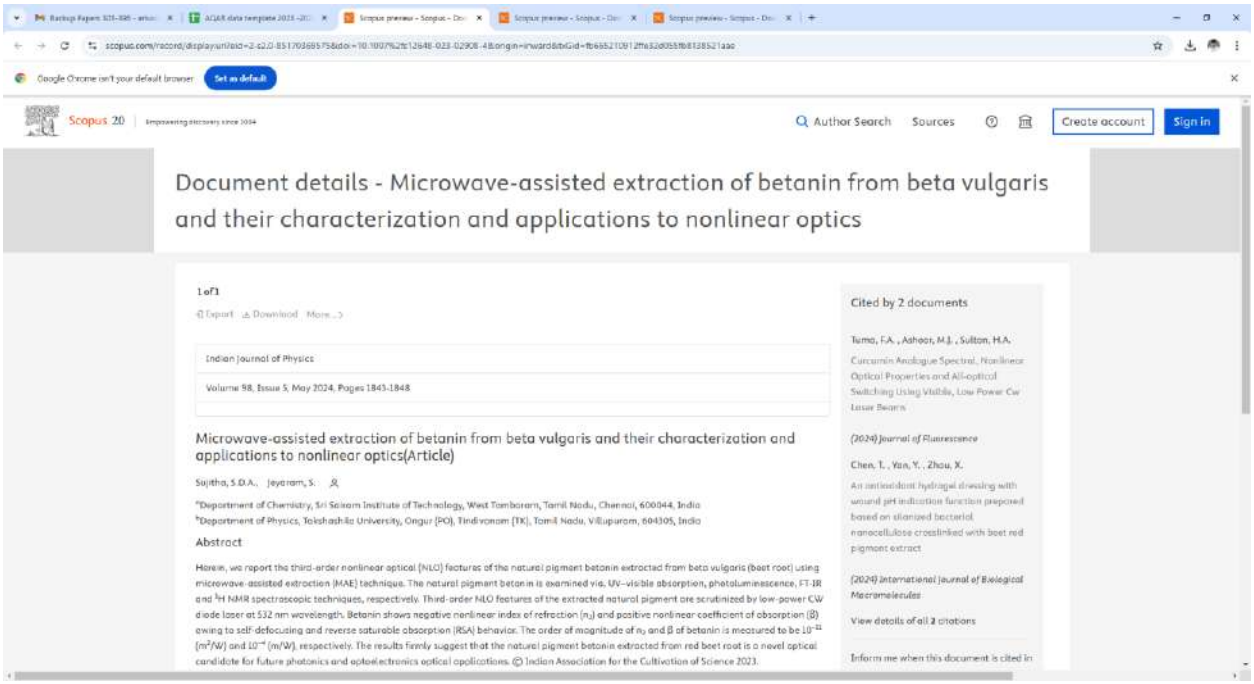

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Volume 98, Issue 5, May 2024, Pages 1843-1848

Microwave-assisted extraction of betanin from beta vulgaris and their characterization and applications to nonlinear optics(Article)

Sujitha, S.D.A., Jayaram, S.

[a]Department of Chemistry, Sri Sairam Institute of Technology, West Tambaram, Tamil Nadu, Chennai, 600044, India
[b]Department of Physics, Teishachilla University, Ongur (PO), Tindivanam (TK), Tamil Nadu, Villupuram, 604305, India

Abstract

Herein, we report the third-order nonlinear optical (NLO) features of the natural pigment betanin extracted from beta vulgaris (beet root) using microwave-assisted extraction (MAE) technique. The natural pigment betanin is examined via. UV–visible absorption, photoluminescence, FT-IR and ^{1}H NMR spectroscopic techniques, respectively. Third-order NLO features of the extracted natural pigment are scrutinized by low-power CW diode laser at 532 nm wavelength. Betanin shows negative nonlinear index of refraction (n_2) and positive nonlinear coefficient of absorption (β) owing to self-defocusing and reverse saturable absorption (RSA) behavior. The order of magnitude of n_2 and β of betanin is measured to be 10^{-11} (m^2/W) and 10^{-4} (m/W), respectively. The results firmly suggest that the natural pigment betanin extracted from red beet root is a novel optical candidate for future photonics and optoelectronics optical applications. © Indian Association for the Cultivation of Science 2023.

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Tumo, F.A., Asheor, M.I., Sultan, H.A.
Curcumin Analogue Spectral, Nonlinear Optical Properties and All-optical Switching Using Visible, Low Power Cw Laser Beams
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Chen, T., Yan, Y., Zhou, X.
An antioxidant hydrogel dressing with wound pH indication function prepared based on silanized bacterial nanocellulose crosslinked with beet red pigment extract
(2024) International Journal of Biological Macromolecules

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Research Journal of Chemistry and Environment

Volume 28, Issue 5, May 2024, Pages 100-105

Thickness based Degradation Study of Commercial Polyethylene Waste Carry Bags using Galleria mellonella Worms(Article)

Jayaprakash, R., Ayyadurai, G.K., Shajahan, A., Rathika, S.

[a]Department of Chemistry, School of Arts and Science, Vinayaka Mission's Research Foundation, Deemed University, Vinayaka Mission's Chennai Campus, TN, Chennai, 603104, India
[b]Department of Chemistry, Sri Sairam Engineering College, Sai Leo Nagar, West Tambaram, TN, Chennai, 600044, India
[c]Department of Chemistry, School of Physical and Chemical Sciences, B.S. Abdur Rahman Crescent Institute of Science and Technology (DU), TN, Chennai, 600048, India

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Abstract

Modern world is facing lot of polymers which degrade land and will reduce agricultural yield .In many ways. Thus, the cost-effective degradation or recycling is being studied by the researchers. This study reformed settings to study the Galleria mellonella wax worm's impact on polyethylene polymer degradation. This work isolated the worms from waste honey comb and treated five worms with the collected polymers. Trials were conducted at different seasons and monitored the degradation. Trials results showed minimum average degradation of 86 mg over 216 h with

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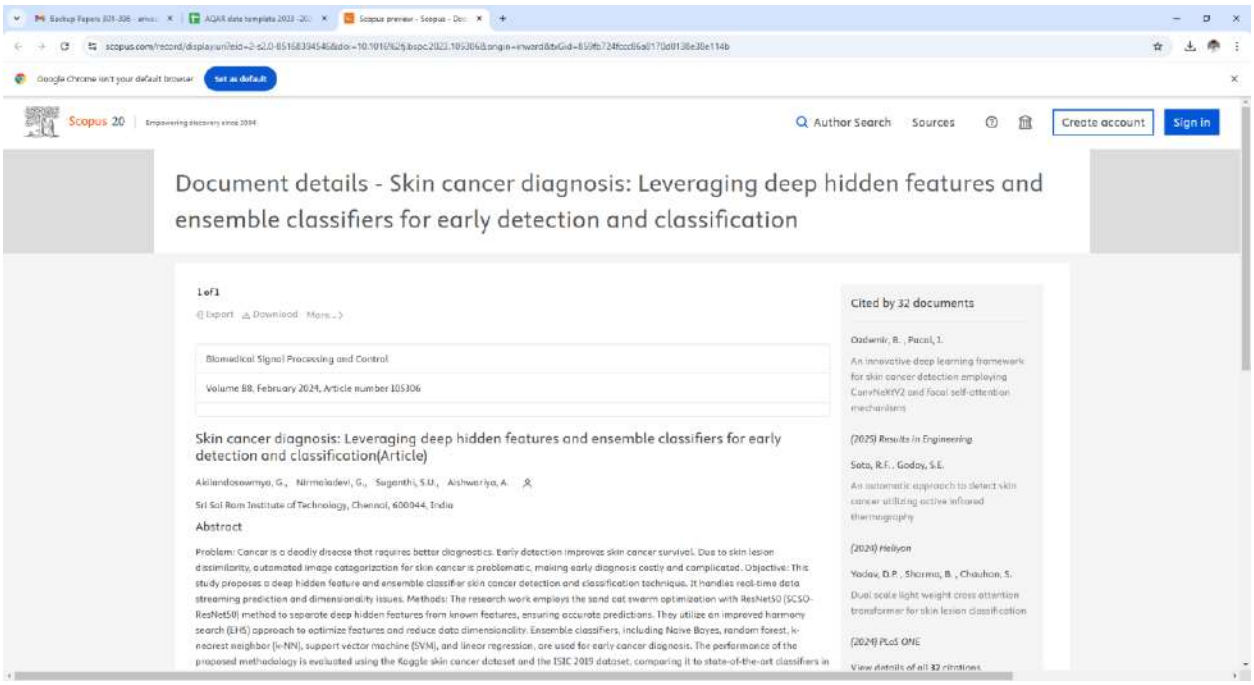
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Biomedical Signal Processing and Control
Volume 88, February 2024, Article number 105306
Skin cancer diagnosis: Leveraging deep hidden features and ensemble classifiers for early detection and classification(Article)
Akilandeswarya, G., Nirmaladevi, G., Sugenthi, S.U., Aishwariya, A.
Sri Sai Ram Institute of Technology, Chennai, 600044, India
Abstract
Problem: Cancer is a deadly disease that requires better diagnostics. Early detection improves skin cancer survival. Due to skin lesion dissimilarity, automated image categorization for skin cancer is problematic, making early diagnosis costly and complicated. Objective: This study proposes a deep hidden feature and ensemble classifier skin cancer detection and classification technique. It handles real-time data streaming prediction and dimensionality issues. Methods: The research work employs the sand cat swarm optimization with ResNet50 (SCSO-ResNet50) method to separate deep hidden features from known features, ensuring accurate predictions. They utilize an improved harmony search (EHS) approach to optimize features and reduce data dimensionality. Ensemble classifiers, including Naive Bayes, random forest, k-nearest neighbor (k-NN), support vector machine (SVM), and linear regression, are used for early cancer diagnosis. The performance of the proposed methodology is evaluated using the Kaggle skin cancer dataset and the ISIC 2019 dataset, comparing it to state-of-the-art classifiers in
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An innovative deep learning framework for skin cancer detection employing ConvNeXtV2 and focal self-attention mechanisms
(2025) Results in Engineering
Sota, R.F., Godoy, S.E.
An automatic approach to detect skin cancer utilizing active infrared thermography
(2024) Heliyon
Yadav, D.P., Sharma, B., Chauhan, S.
Dual-scale light weight cross attention transformer for skin lesion classification
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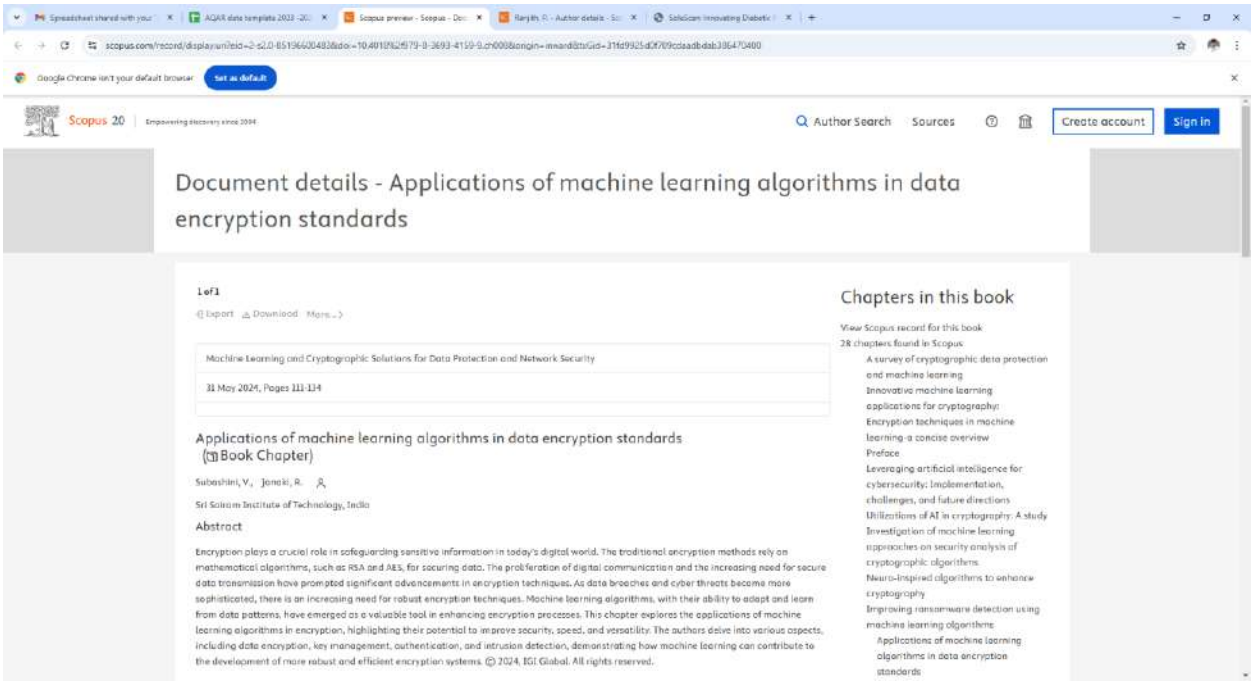
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Machine Learning and Cryptographic Solutions for Data Protection and Network Security
31 May 2024, Pages 111-134
Applications of machine learning algorithms in data encryption standards
(Book Chapter)
Subashini, V., Jeneki, R.
Sri Sairam Institute of Technology, India
Abstract
Encryption plays a crucial role in safeguarding sensitive information in today's digital world. The traditional encryption methods rely on mathematical algorithms, such as RSA and AES, for securing data. The proliferation of digital communication and the increasing need for secure data transmission have prompted significant advancements in encryption techniques. As data breaches and cyber threats become more sophisticated, there is an increasing need for robust encryption techniques. Machine learning algorithms, with their ability to adapt and learn from data patterns, have emerged as a valuable tool in enhancing encryption processes. This chapter explores the applications of machine learning algorithms in encryption, highlighting their potential to improve security, speed, and versatility. The authors delve into various aspects, including data encryption, key management, authentication, and intrusion detection, demonstrating how machine learning can contribute to the development of more robust and efficient encryption systems. © 2024, IGI Global. All rights reserved.
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Investigation of machine learning approaches on security analysis of cryptographic algorithms
Neuro-inspired algorithms to enhance cryptography
Improving ransomware detection using machine learning algorithms
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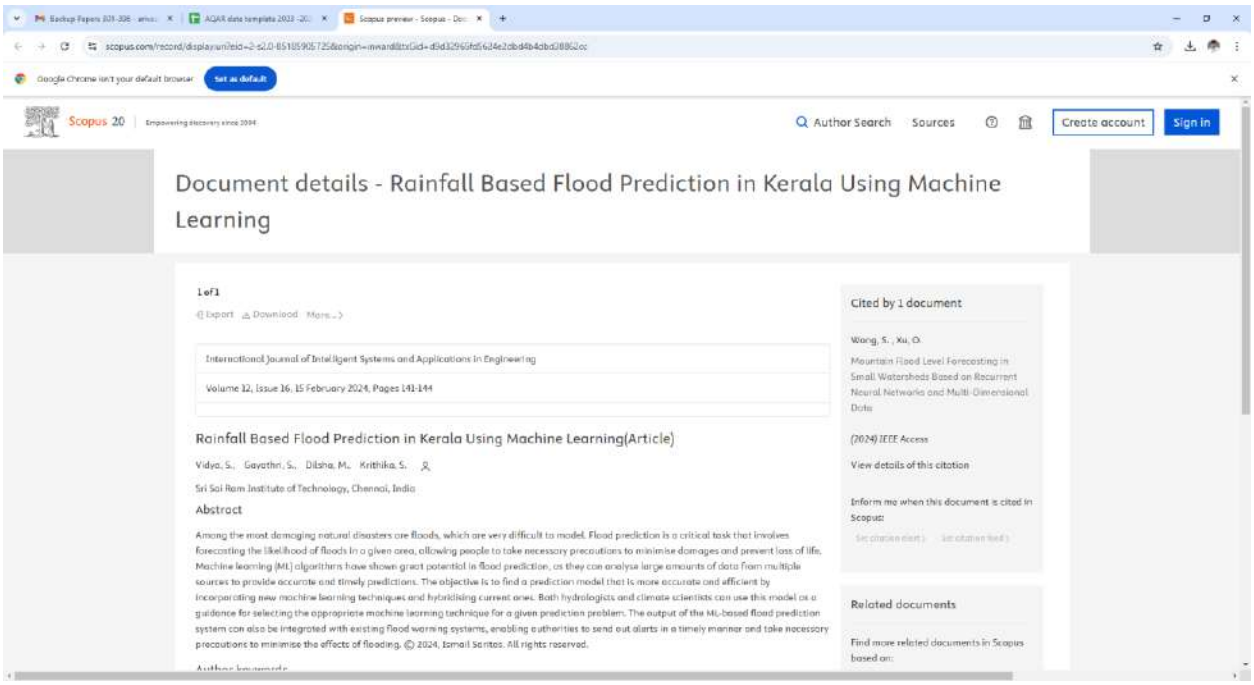

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International Journal of Intelligent Systems and Applications in Engineering

Volume 12, Issue 16, 15 February 2024, Pages 141-144

Rainfall Based Flood Prediction in Kerala Using Machine Learning(Article)

Vidya, S., Gayathri, S., Dilsha, M., Krithika, S.

Sri Sai Ram Institute of Technology, Chennai, India

Abstract

Among the most damaging natural disasters are floods, which are very difficult to model. Flood prediction is a critical task that involves forecasting the likelihood of floods in a given area, allowing people to take necessary precautions to minimise damages and prevent loss of life. Machine learning (ML) algorithms have shown great potential in flood prediction, as they can analyse large amounts of data from multiple sources to provide accurate and timely predictions. The objective is to find a prediction model that is more accurate and efficient by incorporating new machine learning techniques and hybridising current ones. Both hydrologists and climate scientists can use this model as a guidance for selecting the appropriate machine learning technique for a given prediction problem. The output of the ML-based flood prediction system can also be integrated with existing flood warning systems, enabling authorities to send out alerts in a timely manner and take necessary precautions to minimise the effects of flooding. © 2024, Ismail Saritas. All rights reserved.

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Wang, S., Xu, O.

Mountain Flood Level Forecasting in Small Watersheds Based on Recurrent Neural Networks and Multi-Dimensional Data

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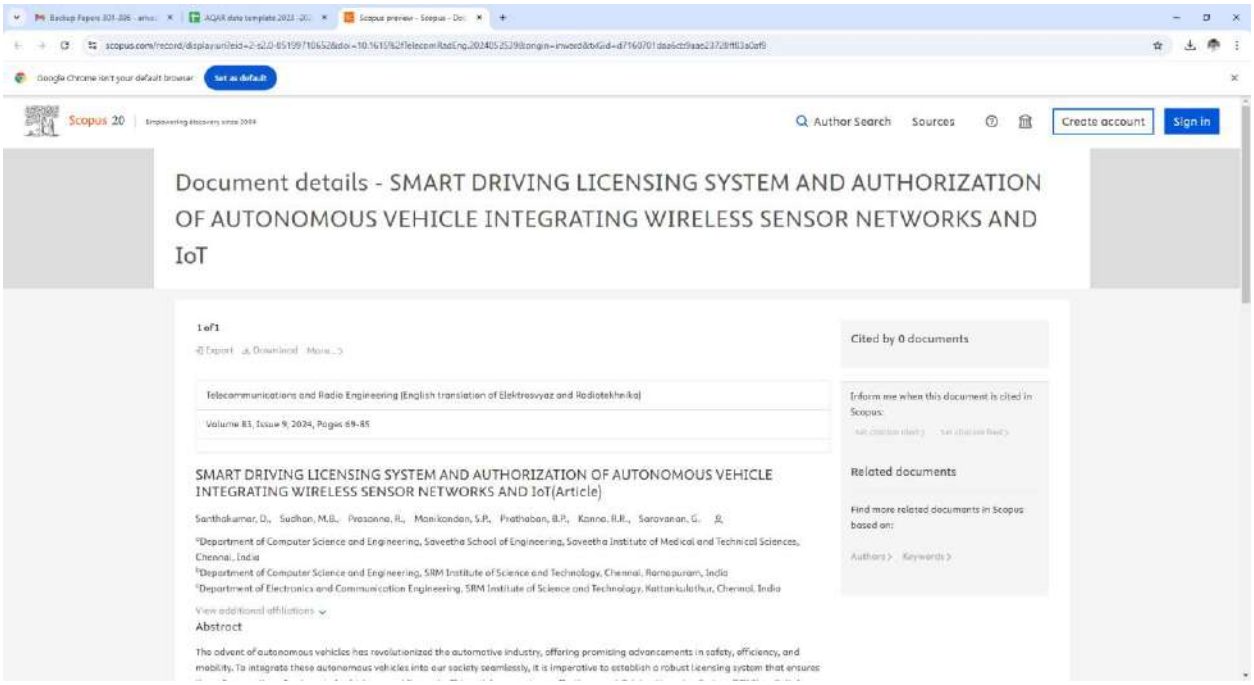

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Volume 83, Issue 9, 2024, Pages 69-85

SMART DRIVING LICENSING SYSTEM AND AUTHORIZATION OF AUTONOMOUS VEHICLE INTEGRATING WIRELESS SENSOR NETWORKS AND IoT(Article)

Santhakumar, D., Sudhan, M.B., Prasanna, R., Manikandan, S.P., Prathaban, B.P., Kanna, R.R., Saravanan, G.

[a]Department of Computer Science and Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, India

[b]Department of Computer Science and Engineering, SRM Institute of Science and Technology, Chennai, Ramapuram, India

[c]Department of Electronics and Communication Engineering, SRM Institute of Science and Technology, Kattankulathur, Chennai, India

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Abstract

The advent of autonomous vehicles has revolutionized the automotive industry, offering promising advancements in safety, efficiency, and mobility. To integrate these autonomous vehicles into our society seamlessly, it is imperative to establish a robust licensing system that ensures

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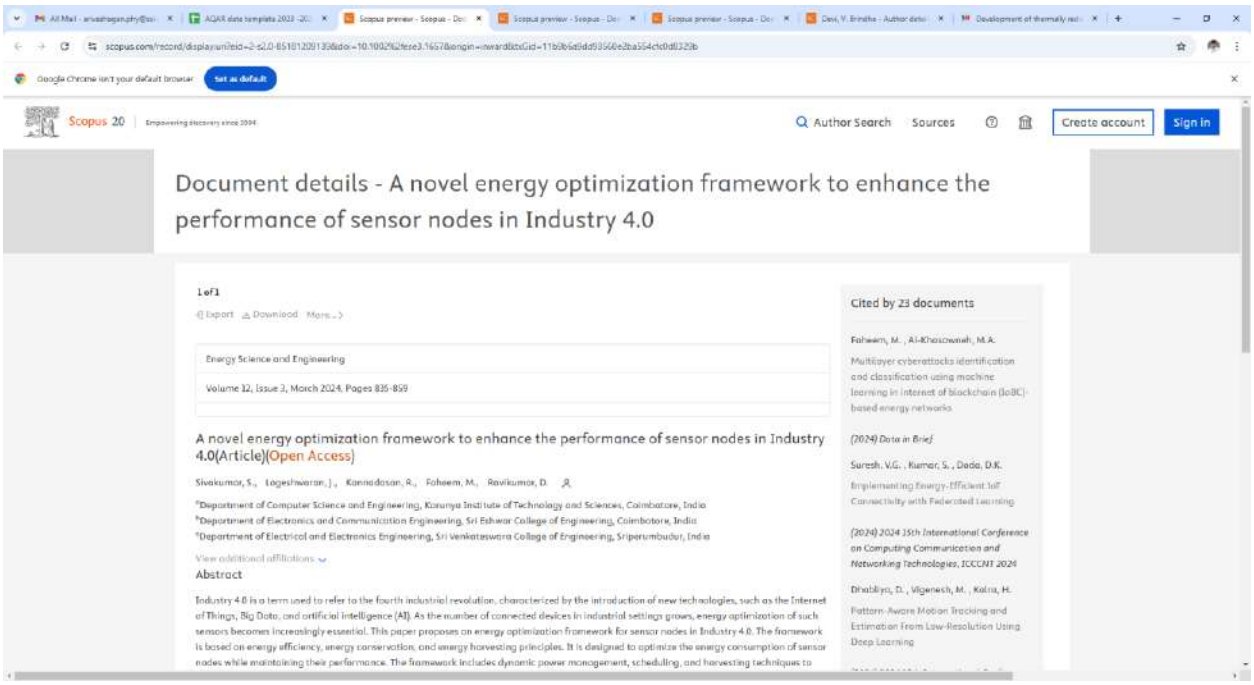

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Energy Science and Engineering

Volume 12, Issue 3, March 2024, Pages 835-859

A novel energy optimization framework to enhance the performance of sensor nodes in Industry 4.0(Article)(Open Access)

Sivakumar, S., Logeshwaran, J., Kannadasan, R., Faheem, M., Ravikumar, D.

[a]Department of Computer Science and Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India
[b]Department of Electronics and Communication Engineering, Sri Eshwar College of Engineering, Coimbatore, India
[c]Department of Electrical and Electronics Engineering, Sri Venkateswara College of Engineering, Sriperumbudur, India

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Abstract

Industry 4.0 is a term used to refer to the fourth industrial revolution, characterized by the introduction of new technologies, such as the Internet of Things, Big Data, and artificial intelligence (AI). As the number of connected devices in industrial settings grows, energy optimization of such sensors becomes increasingly essential. This paper proposes an energy optimization framework for sensor nodes in Industry 4.0. The framework is based on energy efficiency, energy conservation, and energy harvesting principles. It is designed to optimize the energy consumption of sensor nodes while maintaining their performance. The framework includes dynamic power management, scheduling, and harvesting techniques to

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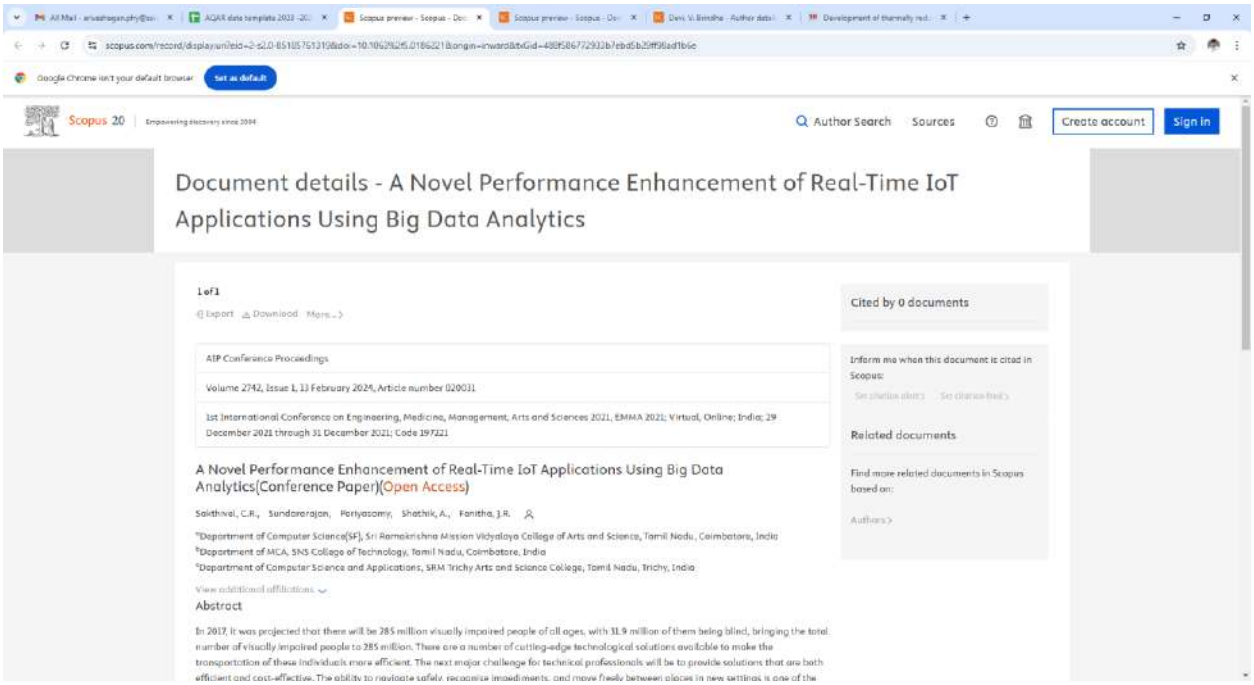

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A Novel Performance Enhancement of Real-Time IoT Applications Using Big Data Analytics(Conference Paper)(Open Access)

Saikhivel, C.R., Sundararajan, Periyasamy, Shathik, A., Fanitha, J.R.

[a]Department of Computer Science(SF), Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Tamil Nadu, Coimbatore, India
[b]Department of MCA, SNS College of Technology, Tamil Nadu, Coimbatore, India
[c]Department of Computer Science and Applications, SRM Trichy Arts and Science College, Tamil Nadu, Trichy, India

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Abstract

In 2017, it was projected that there will be 285 million visually impaired people of all ages, with 31.9 million of them being blind, bringing the total number of visually impaired people to 285 million. There are a number of cutting-edge technological solutions available to make the transportation of these individuals more efficient. The next major challenge for technical professionals will be to provide solutions that are both efficient and cost-effective. The ability to navigate safely, recognise impediments, and move freely between places in new settings is one of the

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International Journal on Interactive Design and Manufacturing

Volume 18, Issue 2, March 2024, Pages 749-769

Investigation of delamination and surface roughness in end milling of glass fibre reinforced polymer composites using Fuzzy Model and Grey wolf Optimizer(Article)

Priya, I.I.M., Palanikumar, K., Senthilkumar, N., Prabha, P.S.

[a]Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur, Chennai, India
[b]Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai, India
[c]Department of Mechanical Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, India

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Abstract

This work deals with the end milling operation on glass fibre (a 45° orientation) reinforced polymer (GFRP) composites using three different end mill cutters with four flutes of 6 mm diameter. Three factors such as end-milling cutters, cutting speed (CS) and feed rate (FR) are considered whereas delamination (Td) and surface roughness (SR) are the responses for the machining. Box Behnken design (BBD) of response surface

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Dhinakarraj, C.K., Senthilkumar, N., Palanikumar, K.
Machinability evaluation of magnesium composite using response surface methodology and nature-inspired metaheuristic algorithms
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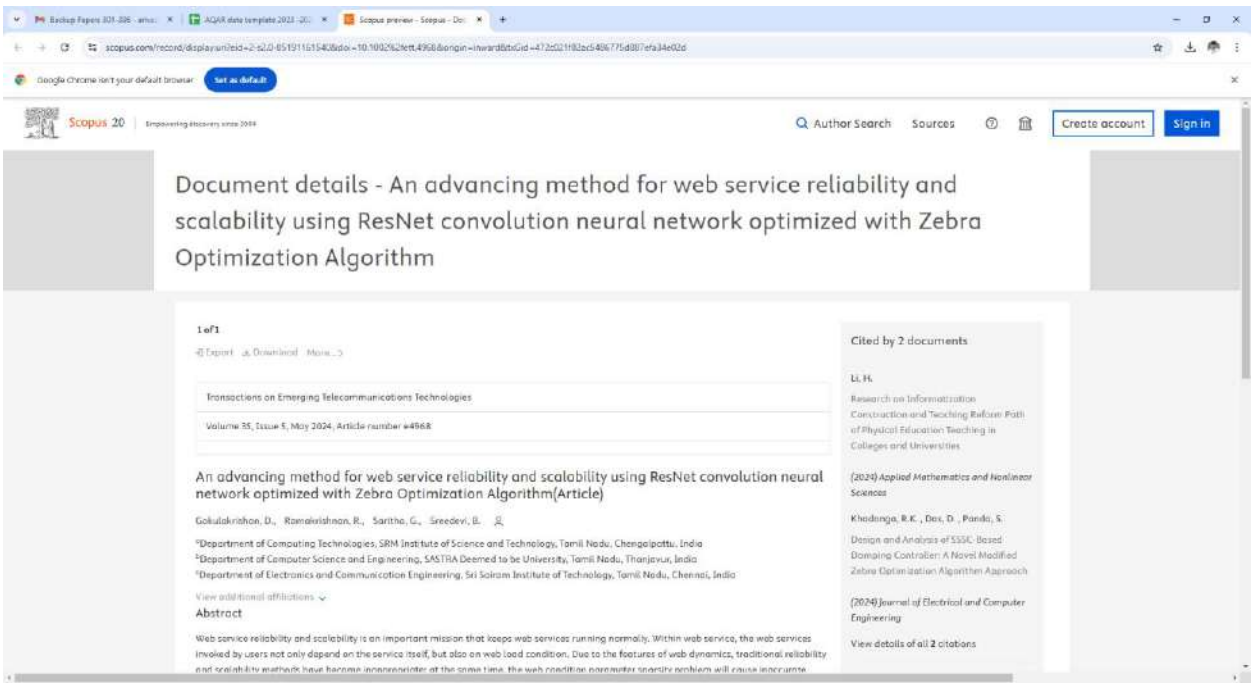

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Transactions on Emerging Telecommunications Technologies

Volume 35, Issue 5, May 2024, Article number e4968

An advancing method for web service reliability and scalability using ResNet convolution neural network optimized with Zebra Optimization Algorithm(Article)

Gokulakrishnan, D., Ramakrishnan, R., Saritha, G., Sreedevi, B.

[a]Department of Computing Technologies, SRM Institute of Science and Technology, Tamil Nadu, Chengalpattu, India
[b]Department of Computer Science and Engineering, SASTRA Deemed to be University, Tamil Nadu, Thanjavur, India
[c]Department of Electronics and Communication Engineering, Sri Sairam Institute of Technology, Tamil Nadu, Chennai, India

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Abstract

Web service reliability and scalability is an important mission that keeps web services running normally. Within web service, the web services invoked by users not only depend on the service itself, but also on web load condition. Due to the features of web dynamics, traditional reliability and scalability methods have become inappropriate at the same time, the web condition parameter sparsity problem will cause inaccurate

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Li, H.
Research on Informatization Construction and Teaching Reform Path of Physical Education Teaching in Colleges and Universities
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Design and Analysis of SSSC-Based Damping Controller: A Novel Modified Zebra Optimization Algorithm Approach
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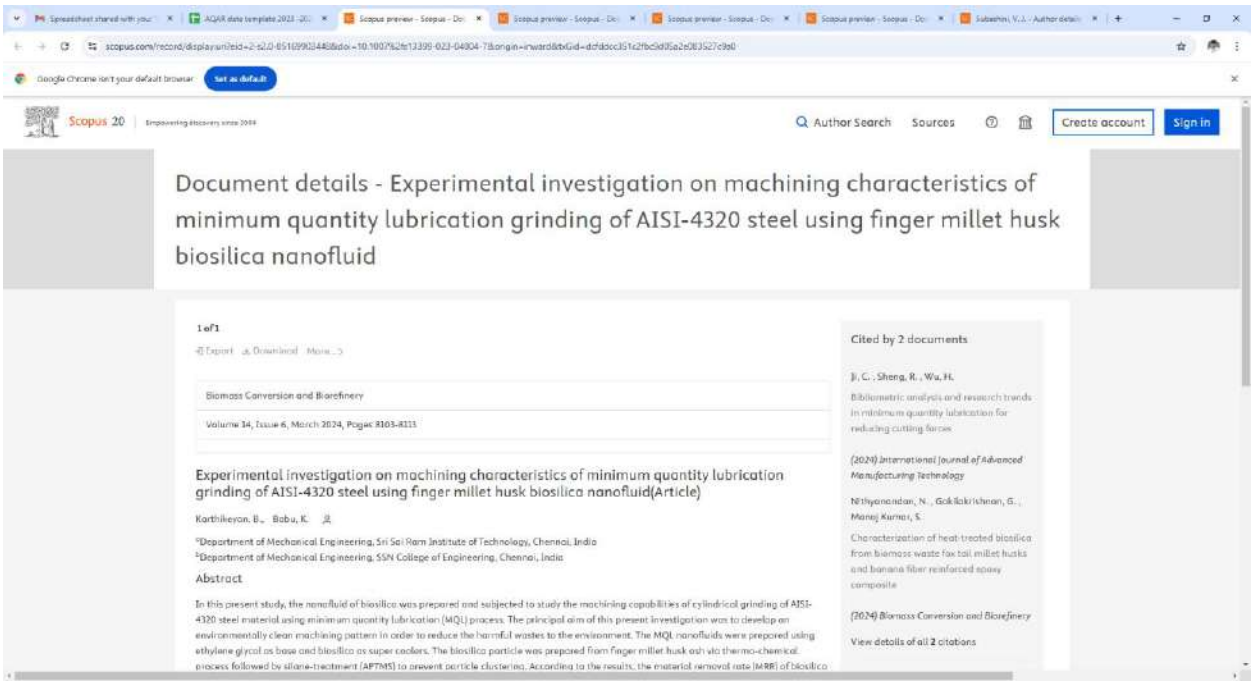
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Volume 14, Issue 6, March 2024, Pages 8103-8113
Experimental investigation on machining characteristics of minimum quantity lubrication grinding of AISI-4320 steel using finger millet husk biosilica nanofluid(Article)
Karthikeyan, B., Babu, K.
[a]Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai, India
[b]Department of Mechanical Engineering, SSN College of Engineering, Chennai, India
Abstract
In this present study, the nanofluid of biosilica was prepared and subjected to study the machining capabilities of cylindrical grinding of AISI-4320 steel material using minimum quantity lubrication (MQL) process. The principal aim of this present investigation was to develop an environmentally clean machining pattern in order to reduce the harmful wastes to the environment. The MQL nanofluids were prepared using ethylene glycol as base and biosilica as super coolers. The biosilica particle was prepared from finger millet husk ash via thermo-chemical process followed by silane-treatment (APTMS) to prevent particle clustering. According to the results, the material removal rate (MRR) of biosilica
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Ji, C., Sheng, R., Wu, H.
Bibliometric analysis and research trends in minimum quantity lubrication for reducing cutting forces
(2024) International Journal of Advanced Manufacturing Technology
Nithyanandan, N., Gokilakrishnan, G., Manoj Kumar, S.
Characterization of heat-treated biosilica from biomass waste fox tail millet husks and banana fiber reinforced epoxy composite
(2024) Biomass Conversion and Biorefinery
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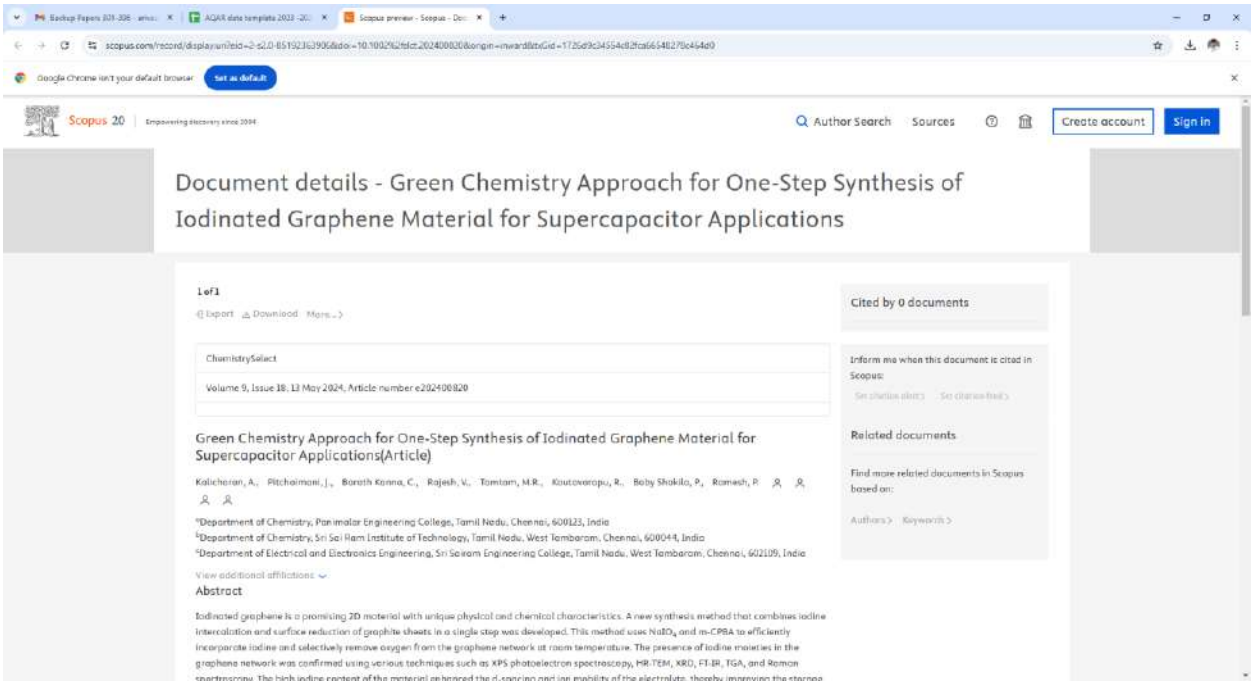
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Green Chemistry Approach for One-Step Synthesis of Iodinated Graphene Material for Supercapacitor Applications(Article)
Kalicheran, A., Pitchaimani, J., Bonath Konna, C., Rajesh, V., Tamtam, M.R., Koutavarapu, R., Baby Shakila, P., Ramesh, P.
[a]Department of Chemistry, Panimalar Engineering College, Tamil Nadu, Chennai, 600123, India
[b]Department of Chemistry, Sri Sai Ram Institute of Technology, Tamil Nadu, West Tambaram, Chennai, 600044, India
[c]Department of Electrical and Electronics Engineering, Sri Sairam Engineering College, Tamil Nadu, West Tambaram, Chennai, 602109, India
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Abstract
Iodinated graphene is a promising 2D material with unique physical and chemical characteristics. A new synthesis method that combines iodine intercalation and surface reduction of graphite sheets in a single step was developed. This method uses $NaIO_4$ and m-CPBA to efficiently incorporate iodine and selectively remove oxygen from the graphene network at room temperature. The presence of iodine moieties in the graphene network was confirmed using various techniques such as XPS photoelectron spectroscopy, HR-TEM, XRD, FT-IR, TGA, and Raman
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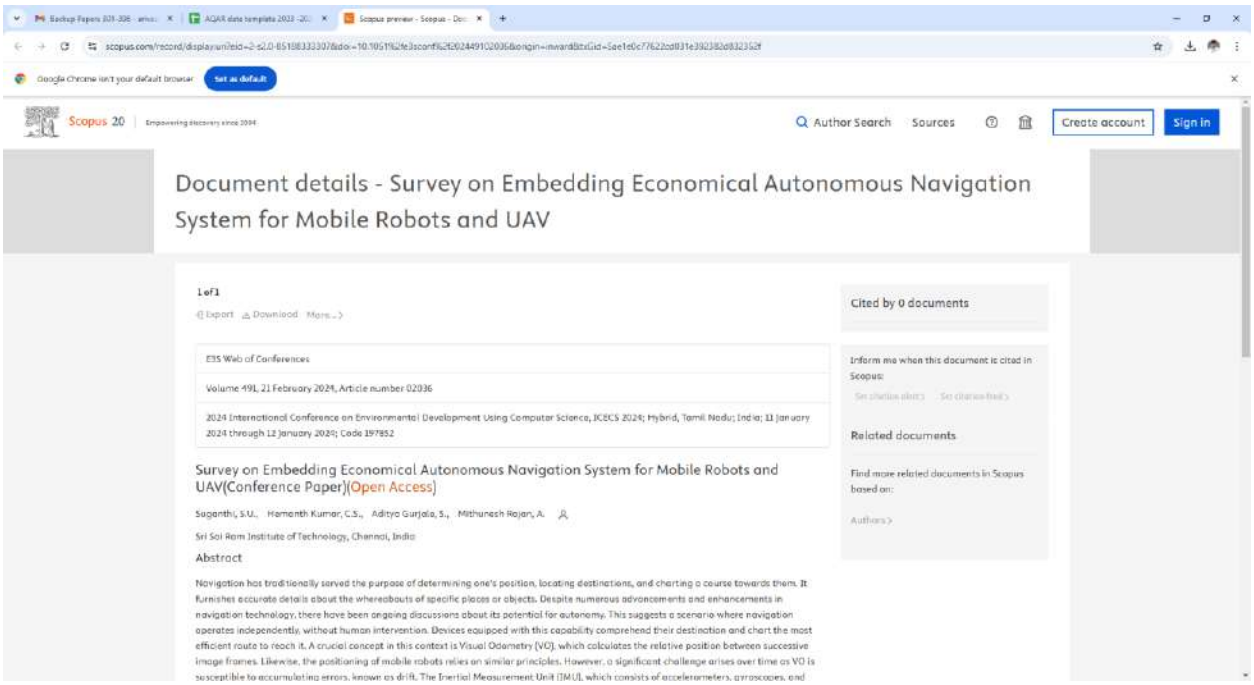
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Volume 491, 21 February 2024, Article number 02036
2024 International Conference on Environmental Development Using Computer Science, ICECS 2024; Hybrid, Tamil Nadu; India; 11 January 2024 through 12 January 2024; Code 197852
Survey on Embedding Economical Autonomous Navigation System for Mobile Robots and UAV(Conference Paper)(Open Access)
Sugenthi, S.U., Hemanth Kumar, C.S., Aditya Gurjala, S., Mithunesh Rajan, A.
Sri Sai Ram Institute of Technology, Chennai, India
Abstract
Navigation has traditionally served the purpose of determining one's position, locating destinations, and charting a course towards them. It furnishes accurate details about the whereabouts of specific places or objects. Despite numerous advancements and enhancements in navigation technology, there have been ongoing discussions about its potential for autonomy. This suggests a scenario where navigation operates independently, without human intervention. Devices equipped with this capability comprehend their destination and chart the most efficient route to reach it. A crucial concept in this context is Visual Odometry (VO), which calculates the relative position between successive image frames. Likewise, the positioning of mobile robots relies on similar principles. However, a significant challenge arises over time as VO is susceptible to accumulating errors, known as drift. The Inertial Measurement Unit (IMU), which consists of accelerometers, gyroscopes, and
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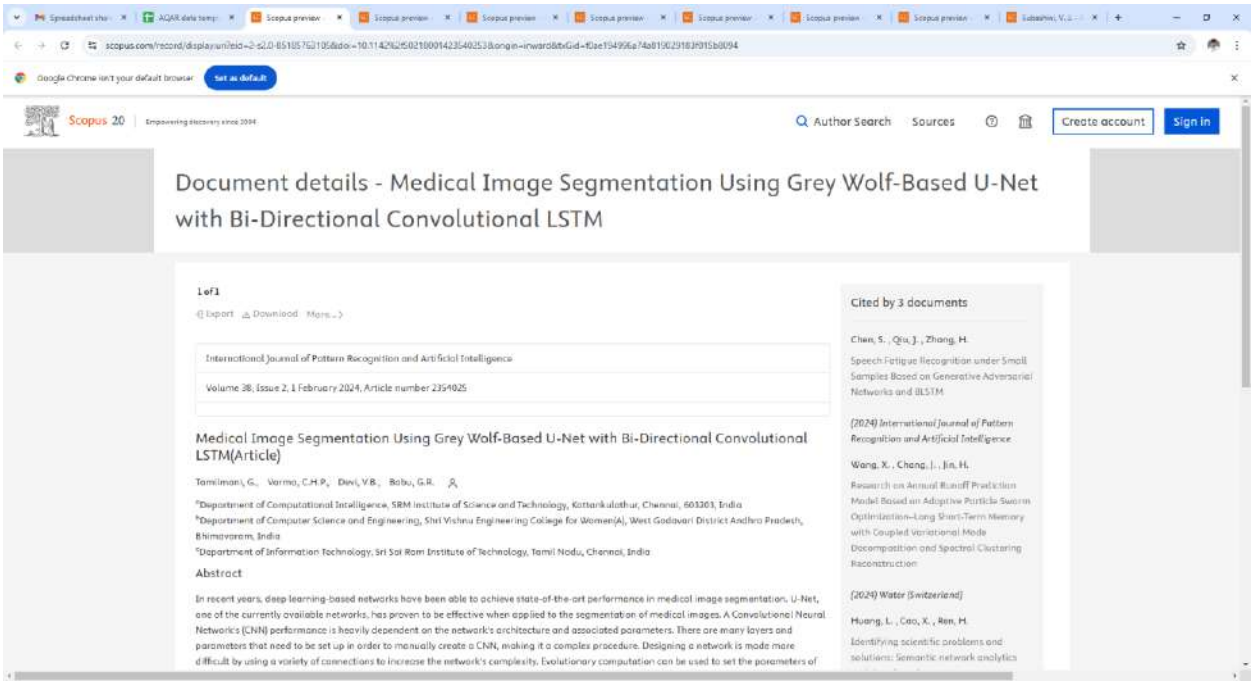
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Medical Image Segmentation Using Grey Wolf-Based U-Net with Bi-Directional Convolutional LSTM(Article)
Tamilmani, G., Varma, C.H.P., Devi, V.B., Babu, G.R.
Department of Computational Intelligence, SRM Institute of Science and Technology, Kattankulathur, Chennai, 603203, India
Department of Computer Science and Engineering, Shri Vishnu Engineering College for Women(A), West Godavari District Andhra Pradesh, Bhimavaram, India
Department of Information Technology, Sri Sai Ram Institute of Technology, Tamil Nadu, Chennai, India
Abstract
In recent years, deep learning-based networks have been able to achieve state-of-the-art performance in medical image segmentation. U-Net, one of the currently available networks, has proven to be effective when applied to the segmentation of medical images. A Convolutional Neural Networks (CNN) performance is heavily dependent on the network's architecture and associated parameters. There are many layers and parameters that need to be set up in order to manually create a CNN, making it a complex procedure. Designing a network is made more difficult by using a variety of connections to increase the network's complexity. Evolutionary computation can be used to set the parameters of
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Research on Annual Runoff Prediction Model Based on Adaptive Particle Swarm Optimization-Long Short-Term Memory with Coupled Variational Mode Decomposition and Spectral Clustering Reconstruction
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Huang, L., Cao, X., Ren, H.
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Advanced Applications in Osmotic Computing

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IoT's role in smart manufacturing transformation for enhanced household product quality (Book Chapter)

Ali, M.N., Senthil, T.S., Ilakkiya, T., Hasan, D.S., Ganapathy, N.B.S., Boopathi, S.

[a]Department of Mechanical Engineering, Faculty of Engineering and Technology, Khaja Bandanawaz University, India
[b]Department of Marine Engineering, Noorul Islam Centre for Higher Education, India
[c]Department of Management Studies, Sri Sairam Institute of Technology, India

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Abstract

The convergence of the Internet of things (IoT) and smart manufacturing technologies has revolutionized the way household products are designed, manufactured, and maintained. This chapter explores the pivotal role of IoT in the transformation of smart manufacturing processes to enhance household product quality. It delves into the various facets of this transformative journey, including data-driven insights, predictive maintenance, product customization, and sustainability. By harnessing the power of IoT, manufacturers can streamline operations, reduce costs, and ultimately deliver higher-quality household products that meet the evolving demands of consumers.

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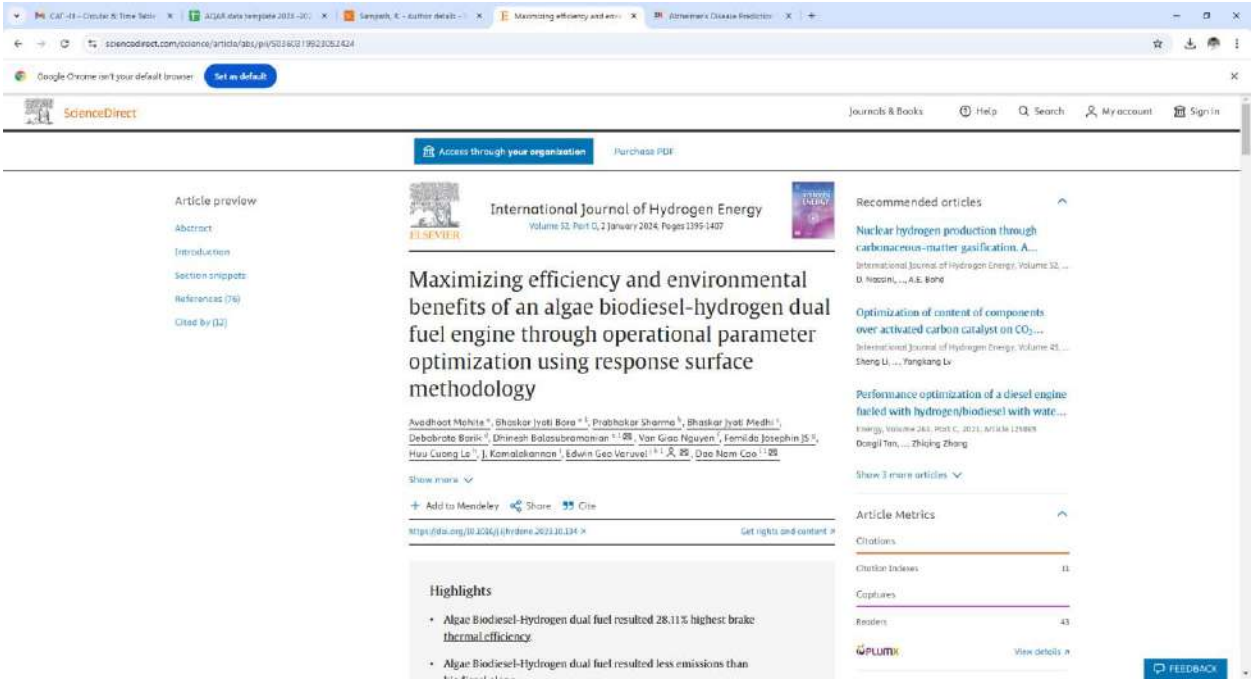

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Volume 52, Part D, 2 January 2024, Pages 1395-1407

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Avadhoot Mohite [a], Bhaskar Jyoti Bora [a, b], Prabhakar Sharma [b], Bhaskar Jyoti Medhi [c], Debabrata Barik [d], Dhinesh Balasubramanian [e, f], Van Giao Nguyen [g], Femilda Josephin JS [h], Huu Cuong Le [i], J. Kamalakannan [j], Edwin Geo Varuvel [k, l], Dao Nam Cao [i, m]

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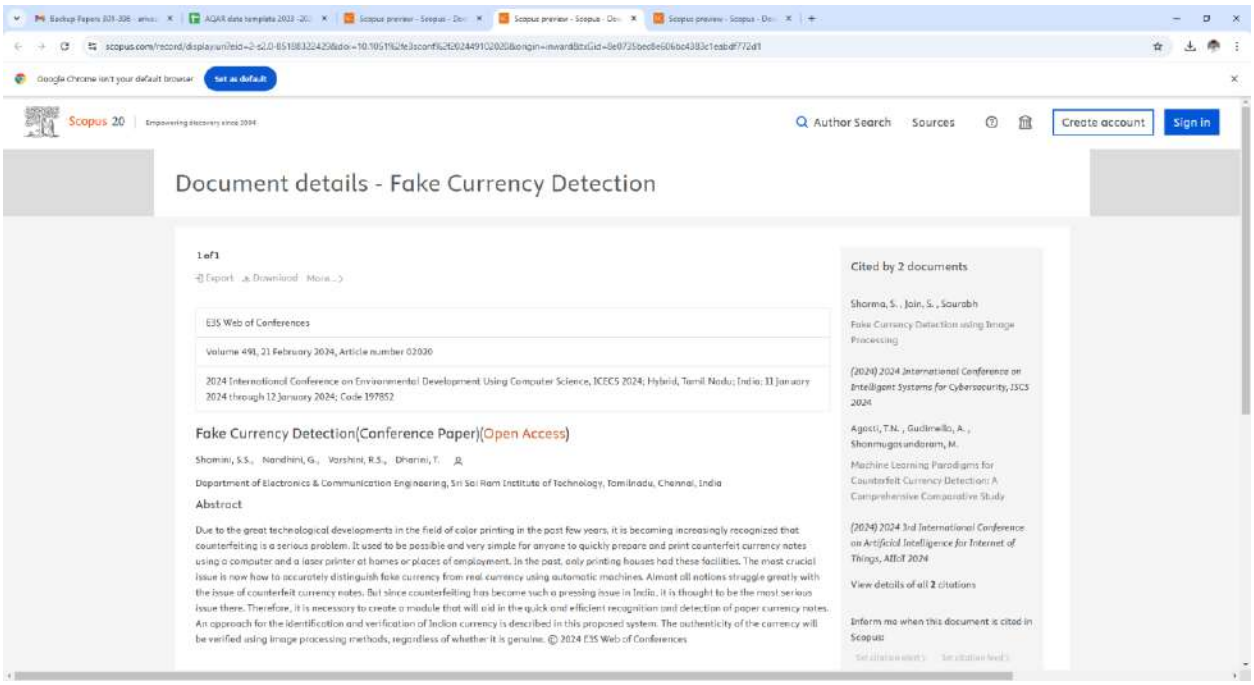
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2024 International Conference on Environmental Development Using Computer Science, ICECS 2024; Hybrid, Tamil Nadu; India; 11 January 2024 through 12 January 2024; Code 197852
Fake Currency Detection(Conference Paper)(Open Access)
Shamini, S.S., Nandhini, G., Varshini, R.S., Dharini, T.
Department of Electronics & Communication Engineering, Sri Sai Ram Institute of Technology, Tamilnadu, Chennai, India
Abstract
Due to the great technological developments in the field of color printing in the past few years, it is becoming increasingly recognized that counterfeiting is a serious problem. It used to be possible and very simple for anyone to quickly prepare and print counterfeit currency notes using a computer and a laser printer at homes or places of employment. In the past, only printing houses had these facilities. The most crucial issue is now how to accurately distinguish fake currency from real currency using automatic machines. Almost all nations struggle greatly with the issue of counterfeit currency notes. But since counterfeiting has become such a pressing issue in India, it is thought to be the most serious issue there. Therefore, it is necessary to create a module that will aid in the quick and efficient recognition and detection of paper currency notes. An approach for the identification and verification of Indian currency is described in this proposed system. The authenticity of the currency will be verified using image processing methods, regardless of whether it is genuine. © 2024 E3S Web of Conferences
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Fake Currency Detection using Image Processing
(2024) 2024 International Conference on Intelligent Systems for Cybersecurity, ICSC 2024
Agosti, T.N. , Gudimetla, A. , Shanmugasundaram, M.
Machine Learning Paradigms for Counterfeit Currency Detection: A Comprehensive Comparative Study
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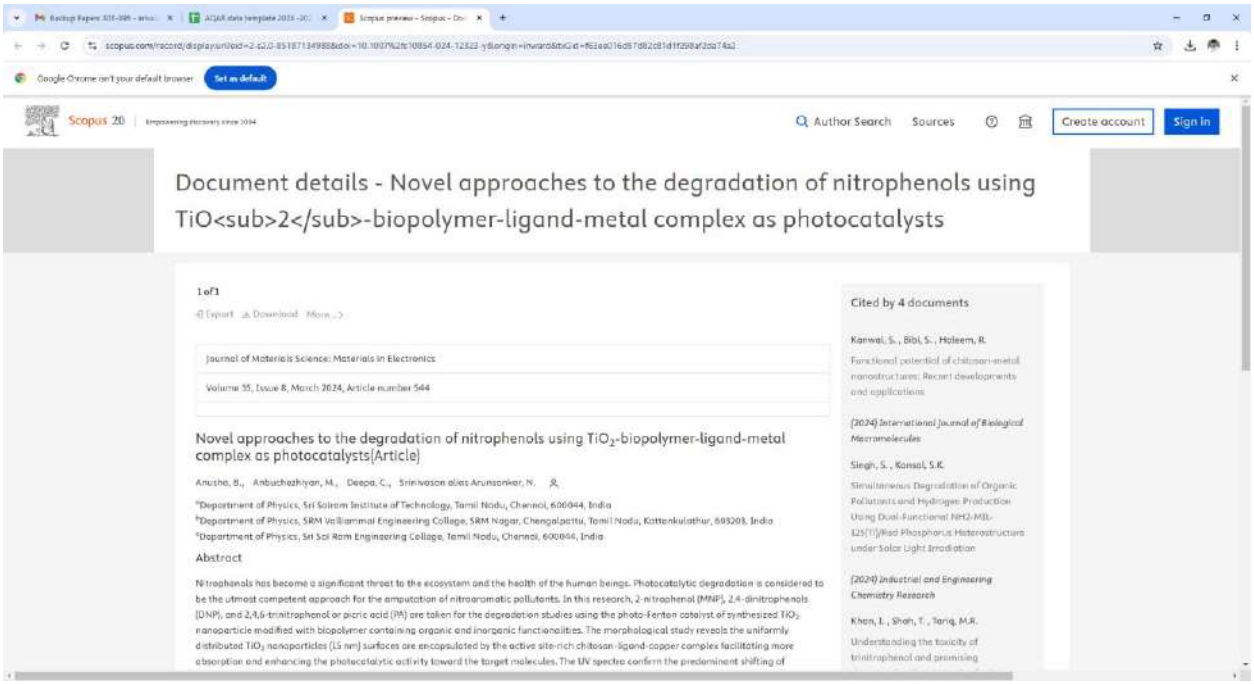
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Novel approaches to the degradation of nitrophenols using TiO_2-biopolymer-ligand-metal complex as photocatalysts(Article)
Anusha, B., Anbuchezhiyan, M., Deepa, C., Srinivasan alias Arunsankar, N.
[a]Department of Physics, Sri Sairam Institute of Technology, Tamil Nadu, Chennai, 600044, India
[b]Department of Physics, SRM Valliammai Engineering College, SRM Nagar, Chengalpattu, Tamil Nadu, Kattankulathur, 603203, India
[c]Department of Physics, Sri Sai Ram Engineering College, Tamil Nadu, Chennai, 600044, India
Abstract
Nitrophenols has become a significant threat to the ecosystem and the health of the human beings. Photocatalytic degradation is considered to be the utmost competent approach for the amputation of nitroaromatic pollutants. In this research, 2-nitrophenol (MNP), 2,4-dinitrophenols (DNP), and 2,4,6-trinitrophenol or picric acid (PA) are taken for the degradation studies using the photo-Fenton catalyst of synthesized TiO_2 nanoparticle modified with biopolymer containing organic and inorganic functionalities. The morphological study reveals the uniformly distributed TiO_2 nanoparticles (15 nm) surfaces are encapsulated by the active site-rich chitosan-ligand-copper complex facilitating more absorption and enhancing the photocatalytic activity toward the target molecules. The UV spectra confirm the predominent shifting of
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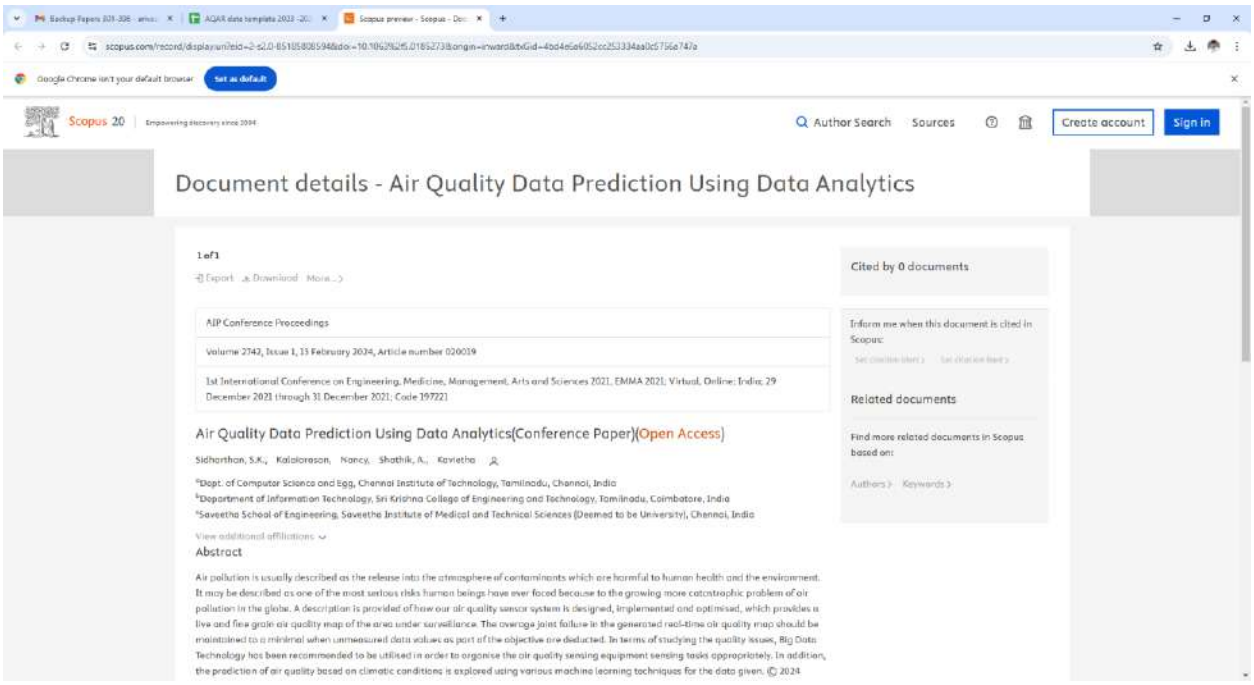
Singh, S. , Kansal, S.K.
Simultaneous Degradation of Organic Pollutants and Hydrogen Production Using Dual-Functional NH2-MIL-125(Ti)/Red Phosphorus Heterostructure under Solar Light Irradiation
(2024) Industrial and Engineering Chemistry Research
Khan, I. , Shah, T. , Tariq, M.R.
Understanding the toxicity of trinitrophenol and promising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1st International Conference on Engineering, Medicine, Management, Arts and Sciences 2021, EMMA 2021; Virtual, Online; India; 29 December 2021 through 31 December 2021; Code 197721
Air Quality Data Prediction Using Data Analytics(Conference Paper)(Open Access)
Sidhartha, S.K., Kalaloreson, Nancy, Shathik, A., Kavietha
Abstract
Air pollution is usually described as the release into the atmosphere of contaminants which are harmful to human health and the environment. It may be described as one of the most serious risks human beings have ever faced because to the growing more catastrophic problem of air pollution in the globe. A description is provided of how our air quality sensor system is designed, implemented and optimised, which provides a live and fine grain air quality map of the area under surveillance. The average joint failure in the generated real-time air quality map should be maintained to a minimal when unmeasured data values as part of the objective are deducted. In terms of studying the quality issues, Big Data Technology has been recommended to be utilised in order to organise the air quality sensing equipment sensing tasks appropriately. In addition, the prediction of air quality based on climatic conditions is explored using various machine learning techniques for the data given. © 2024
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Durairaj, M., Das, S., Ezhilmath, K., Aancy, H.M., Joyadeva, S.M., Murugan, S.
Abstract
The book chapter explores the transformative potential of visionary leadership in India's education system, focusing on key themes such as leadership in education, policy reform advocacy, empowering educators, fostering innovation, inclusivity, engaging communities, and data-driven decision-making. It advocates for a holistic approach to education, focusing on diversity, accessibility, and quality. The chapter delves into the characteristics, strategies, and impact of visionary leaders in the Indian education sector, highlighting their ability to drive significant changes, innovation, and progress. It also discusses the challenges faced by these leaders and offers lessons to be learned. It is a must-read for educators, policymakers, and anyone interested in the future of education in India. © 2024 by IGI Global. All rights reserved.
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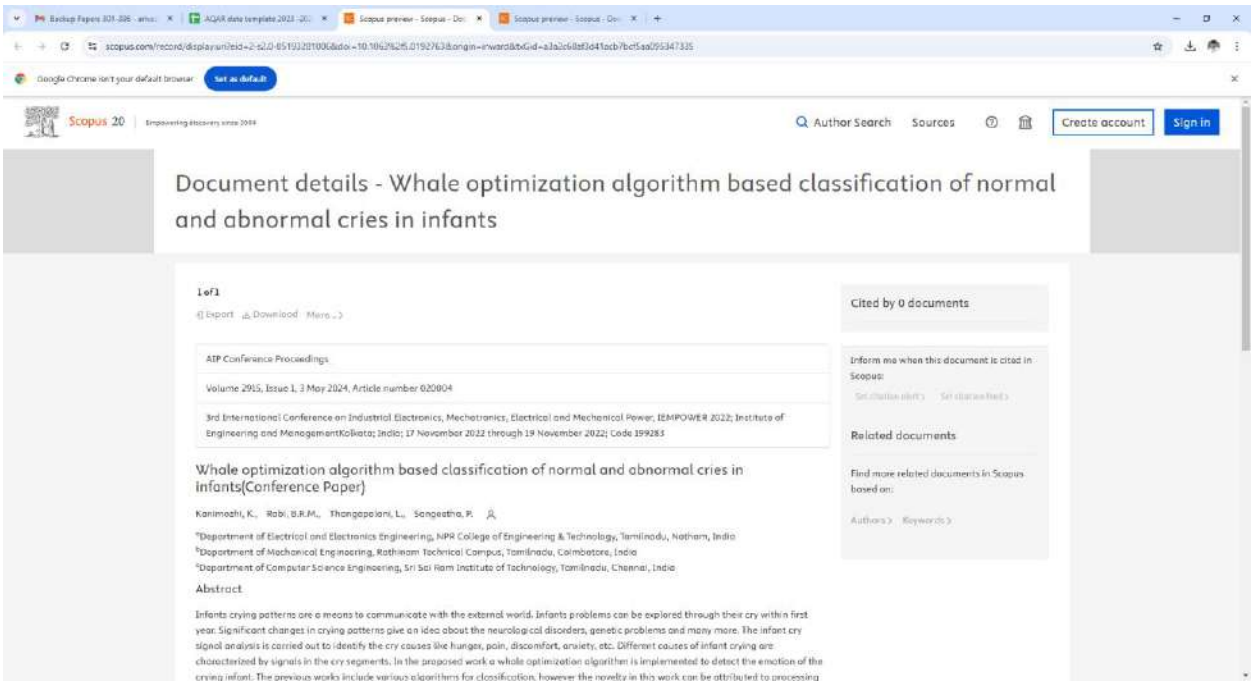
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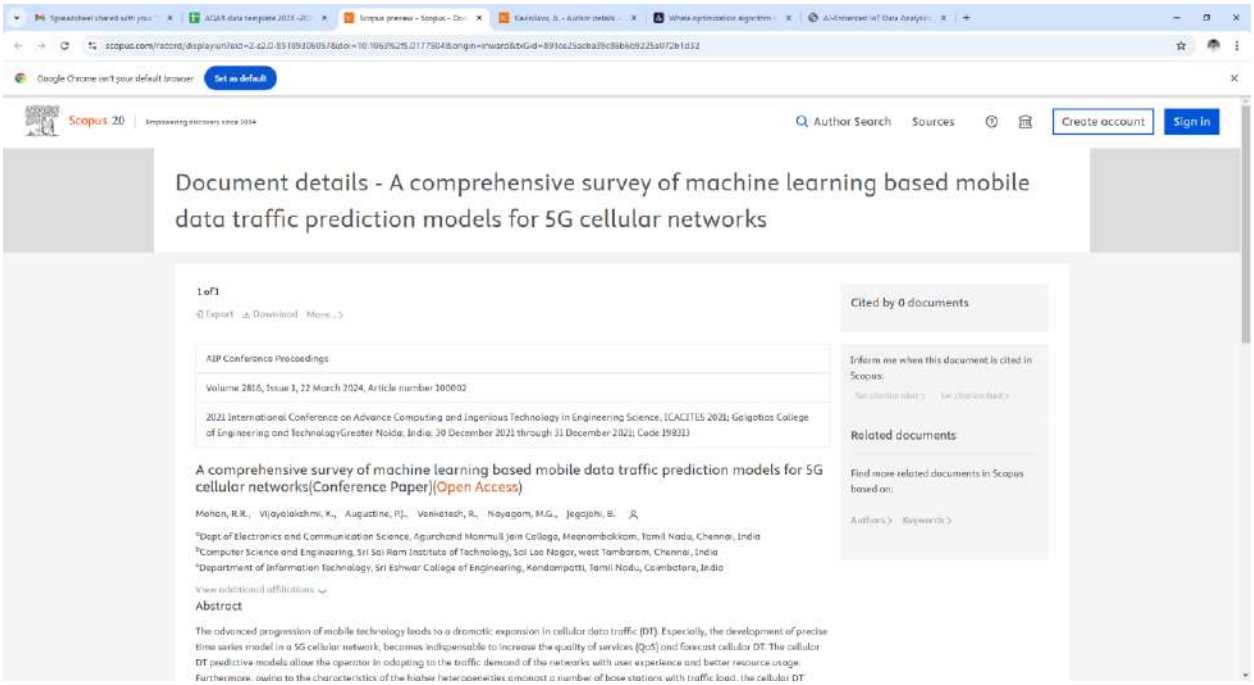
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A comprehensive survey of machine learning based mobile data traffic prediction models for 5G cellular networks(Conference Paper)(Open Access)
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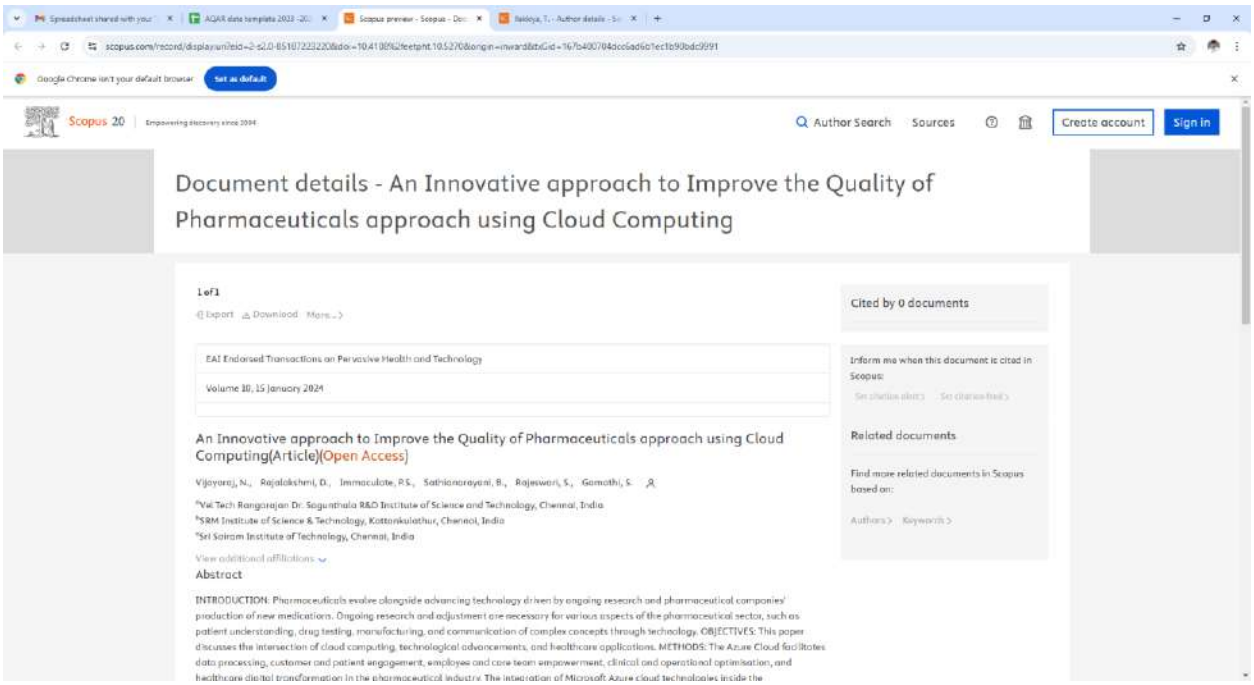
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[a]Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, India
[b]SRM Institute of Science & Technology, Kattankulathur, Chennai, India
[c]Sri Sairam Institute of Technology, Chennai, India
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Abstract
INTRODUCTION: Pharmaceuticals evolve alongside advancing technology driven by ongoing research and pharmaceutical companies' production of new medications. Ongoing research and adjustment are necessary for various aspects of the pharmaceutical sector, such as patient understanding, drug testing, manufacturing, and communication of complex concepts through technology. OBJECTIVES: This paper discusses the intersection of cloud computing, technological advancements, and healthcare applications. METHODS: The Azure Cloud facilitates data processing, customer and patient engagement, employee and core team empowerment, clinical and operational optimisation, and healthcare digital transformation in the pharmaceutical industry. The integration of Microsoft Azure cloud technologies inside the
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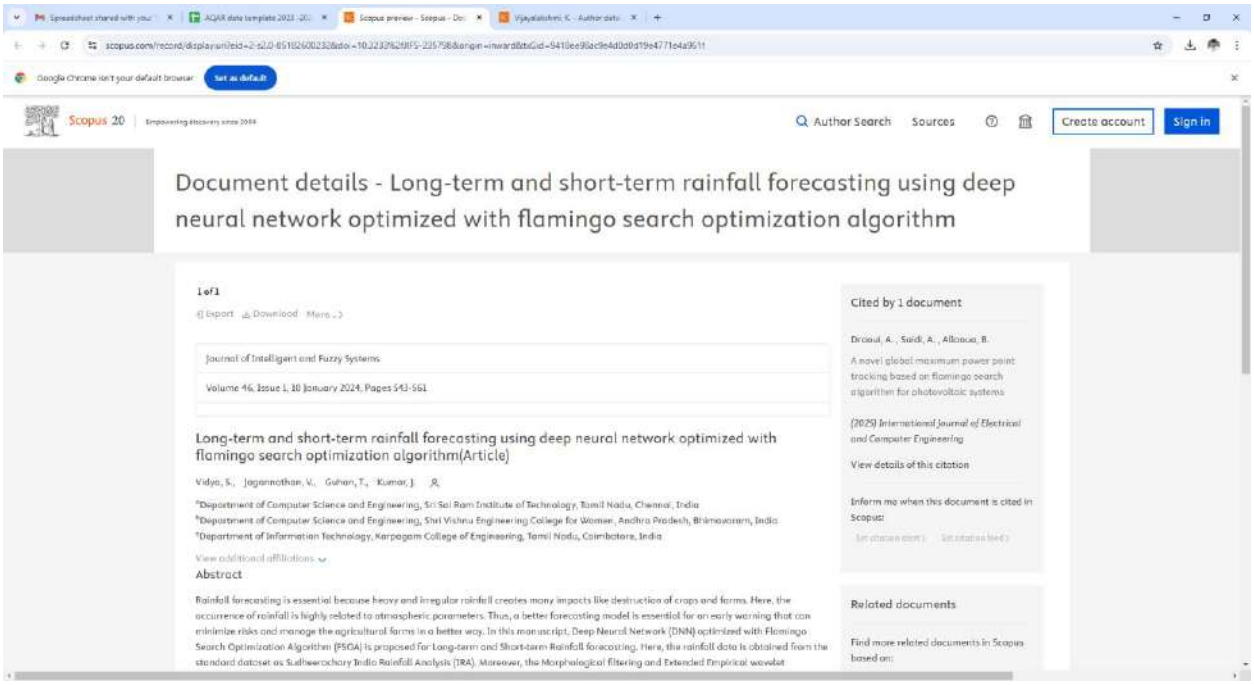
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Long-term and short-term rainfall forecasting using deep neural network optimized with flamingo search optimization algorithm(Article)
Vidya, S., Jagannathan, V., Guhan, T., Kumar, J.
[a]Department of Computer Science and Engineering, Sri Sai Ram Institute of Technology, Tamil Nadu, Chennai, India
[b]Department of Computer Science and Engineering, Shri Vishnu Engineering College for Women, Andhra Pradesh, Bhimavaram, India
[c]Department of Information Technology, Karpagam College of Engineering, Tamil Nadu, Coimbatore, India
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Abstract
Rainfall forecasting is essential because heavy and irregular rainfall creates many impacts like destruction of crops and farms. Here, the occurrence of rainfall is highly related to atmospheric parameters. Thus, a better forecasting model is essential for an early warning that can minimize risks and manage the agricultural farms in a better way. In this manuscript, Deep Neural Network (DNN) optimized with Flamingo Search Optimization Algorithm (FSOA) is proposed for Long-term and Short-term Rainfall forecasting. Here, the rainfall data is obtained from the standard dataset as Sudheerachary India Rainfall Analysis (TRA). Moreover, the Morphological filtering and Extended Empirical wavelet
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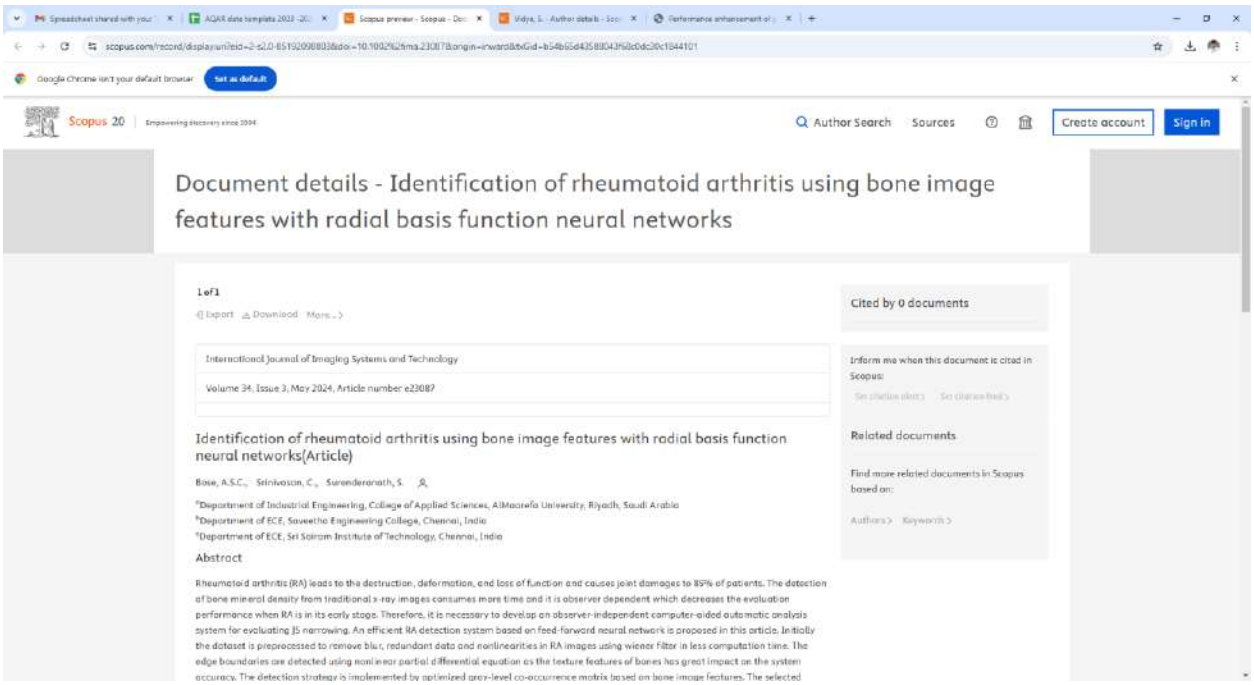

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[b]Department of ECE, Saveetha Engineering College, Chennai, India
[c]Department of ECE, Sri Sairam Institute of Technology, Chennai, India

Abstract

Rheumatoid arthritis (RA) leads to the destruction, deformation, and loss of function and causes joint damages to 85% of patients. The detection of bone mineral density from traditional x-ray images consumes more time and it is observer dependent which decreases the evaluation performance when RA is in its early stage. Therefore, it is necessary to develop an observer-independent computer-aided automatic analysis system for evaluating JS narrowing. An efficient RA detection system based on feed-forward neural network is proposed in this article. Initially the dataset is preprocessed to remove blur, redundant data and nonlinearities in RA images using wiener filter in less computation time. The edge boundaries are detected using nonlinear partial differential equation as the texture features of bones has great impact on the system accuracy. The detection strategy is implemented by optimized grey-level co-occurrence matrix based on bone image features. The selected

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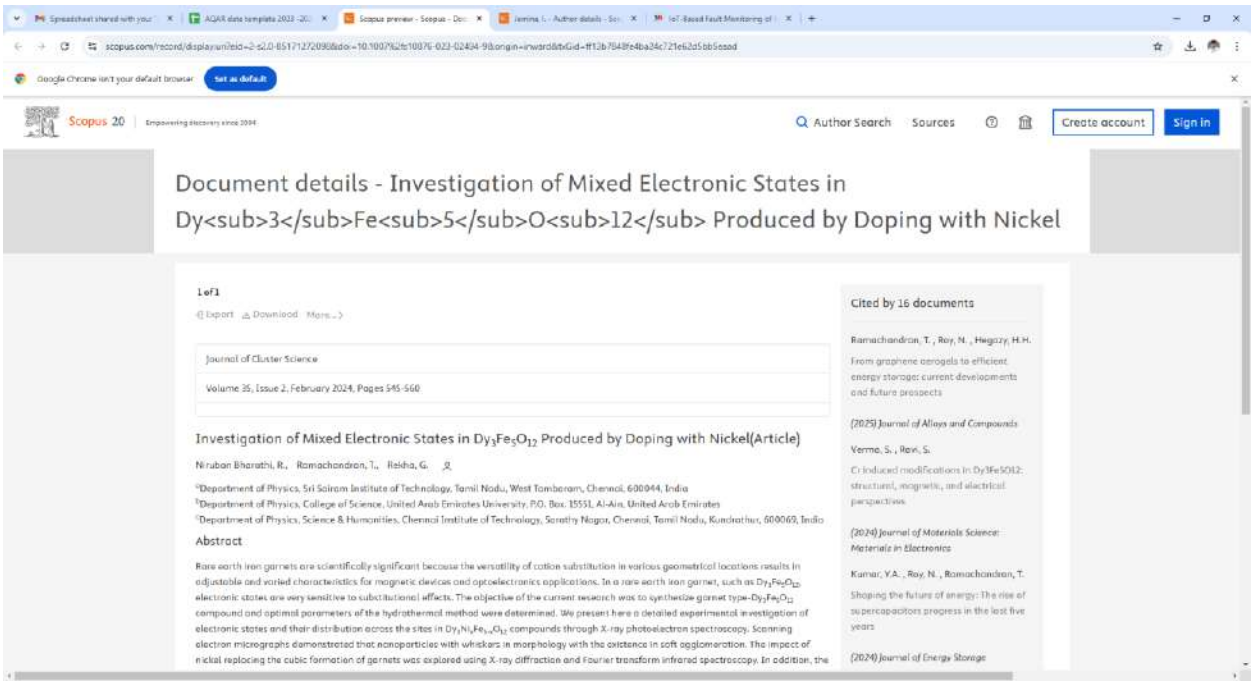
[a]Department of Chemistry, Sri Sai Ram Institute of Technology, West Tambaram, Tamil Nadu, Chennai, 600044, India
[b]Department of Chemistry, Vivekanandha College of Arts & Sciences for Women, Tiruchengode, Tamil Nadu, Namakkal, 637205, India
[c]Department of Mechanical Engineering, Sri Sairam Engineering College, West Tambaram, Tamil Nadu, Chennai, 600044, India

Abstract

The production of in-situ chlorinated graphene oxide was accomplished in a single step without the use of hazardous reagent conditions. This eco-friendly method of producing chlorinated graphene oxide was created by combining the potent oxidizer H_2SO_5 (Piranha) in place of H_2SO_4 with $NaClO_4$ and m-CPBA. These techniques provide the major advantage of simultaneously intercalating chlorine and oxygen onto the surface of graphite by a one-step synthesis. The oxygen and chloride functionality were confirmed by spectral techniques (P-XRD, HR-TEM, XPS, Raman Spectra, FT-IR, and TGA analysis). This is a one-pot synthesis method for generating Cl-GO materials for use in many industries. It is cost-effective, eco-friendly, simple and high scalable. The focus of our present study is on determining the way Cl-GO performs in supercapacitor applications. © 2024 Elsevier B.V.



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Journal of Cluster Science

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Investigation of Mixed Electronic States in $Dy_3Fe_5O_{12}$ Produced by Doping with Nickel(Article)

Niruban Bharathi, R., Ramachandran, T., Rekha, G.

[a]Department of Physics, Sri Sairam Institute of Technology, Tamil Nadu, West Tambaram, Chennai, 600044, India
[b]Department of Physics, College of Science, United Arab Emirates University, P.O. Box 15551, Al-Ain, United Arab Emirates
[c]Department of Physics, Science & Humanities, Chennai Institute of Technology, Sarathy Nagar, Chennai, Tamil Nadu, Kundrathur, 600069, India

Abstract

Rare earth iron garnets are scientifically significant because the versatility of cation substitution in various geometrical locations results in adjustable and varied characteristics for magnetic devices and optoelectronics applications. In a rare earth iron garnet, such as $Dy_3Fe_5O_{12}$, electronic states are very sensitive to substitutional effects. The objective of the current research was to synthesize garnet type-$Dy_3Fe_5O_{12}$ compound and optimal parameters of the hydrothermal method were determined. We present here a detailed experimental investigation of electronic states and their distribution across the sites in $Dy_3Ni_xFe_{5-x}O_{12}$ compounds through X-ray photoelectron spectroscopy. Scanning electron micrographs demonstrated that nanoparticles with whiskers in morphology with the existence in soft agglomeration. The impact of nickel replacing the cubic formation of garnets was explored using X-ray diffraction and Fourier transform infrared spectroscopy. In addition, the

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Cr induced modifications in $Dy3Fe5O12$: structural, magnetic, and electrical perspectives
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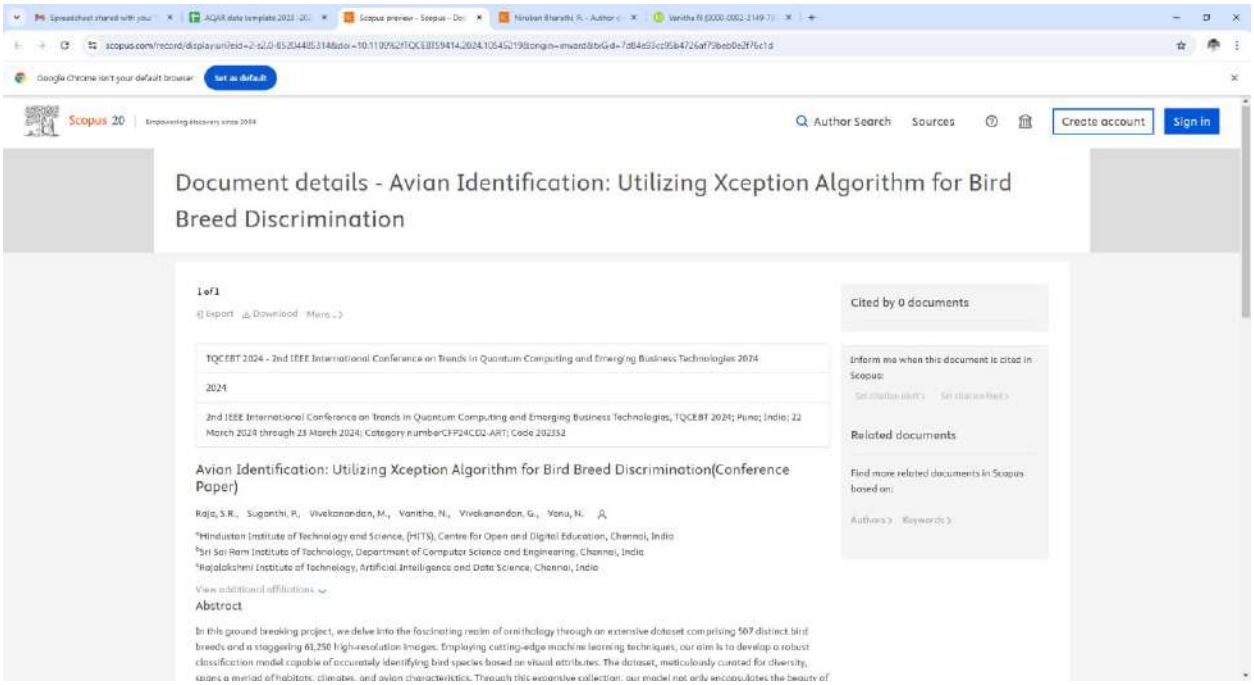

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Avian Identification: Utilizing Xception Algorithm for Bird Breed Discrimination(Conference Paper)

Raja, S.R., Suganthi, P., Vivekanandan, M., Vanitha, N., Vivekanandan, G., Vanu, N.

[a]Hindustan Institute of Technology and Science, (HITS), Centre for Open and Digital Education, Chennai, India
[b]Sri Sai Ram Institute of Technology, Department of Computer Science and Engineering, Chennai, India
[c]Rajalakshmi Institute of Technology, Artificial Intelligence and Data Science, Chennai, India

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Abstract

In this ground breaking project, we delve into the fascinating realm of ornithology through an extensive dataset comprising 567 distinct bird breeds and a staggering 61,250 high-resolution images. Employing cutting-edge machine learning techniques, our aim is to develop a robust classification model capable of accurately identifying bird species based on visual attributes. The dataset, meticulously curated for diversity, spans a myriad of habitats, climates, and avian characteristics. Through this expansive collection, our model not only encapsulates the beauty of

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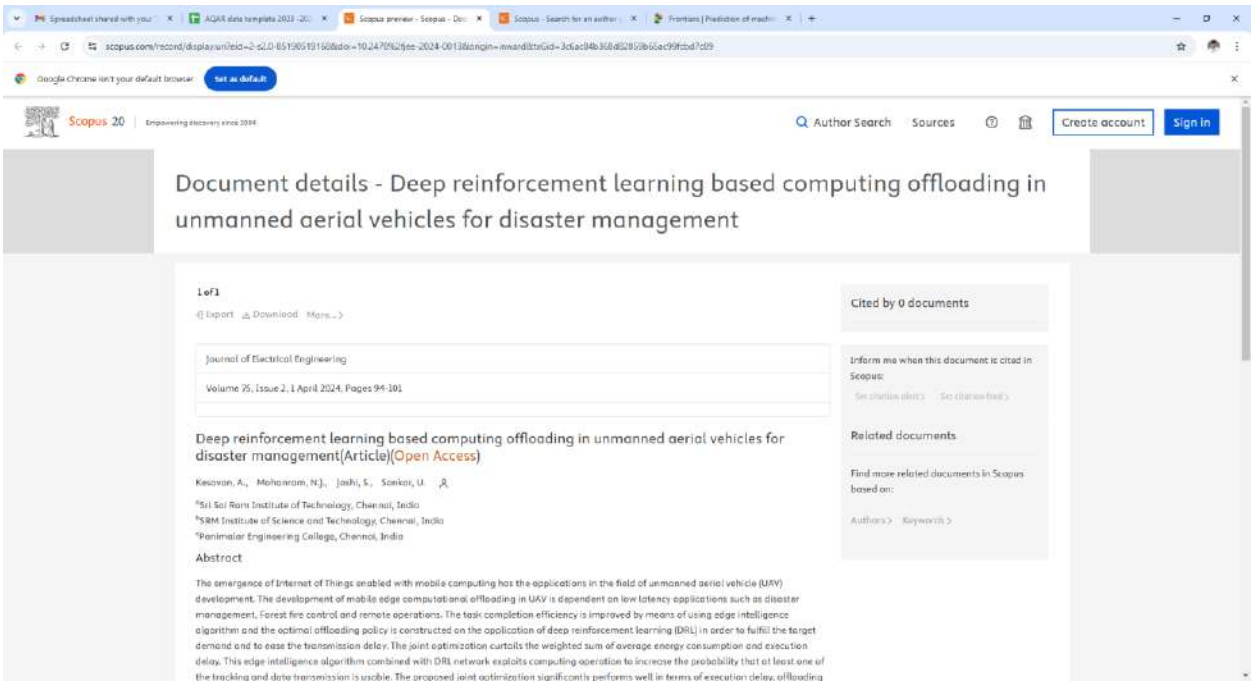
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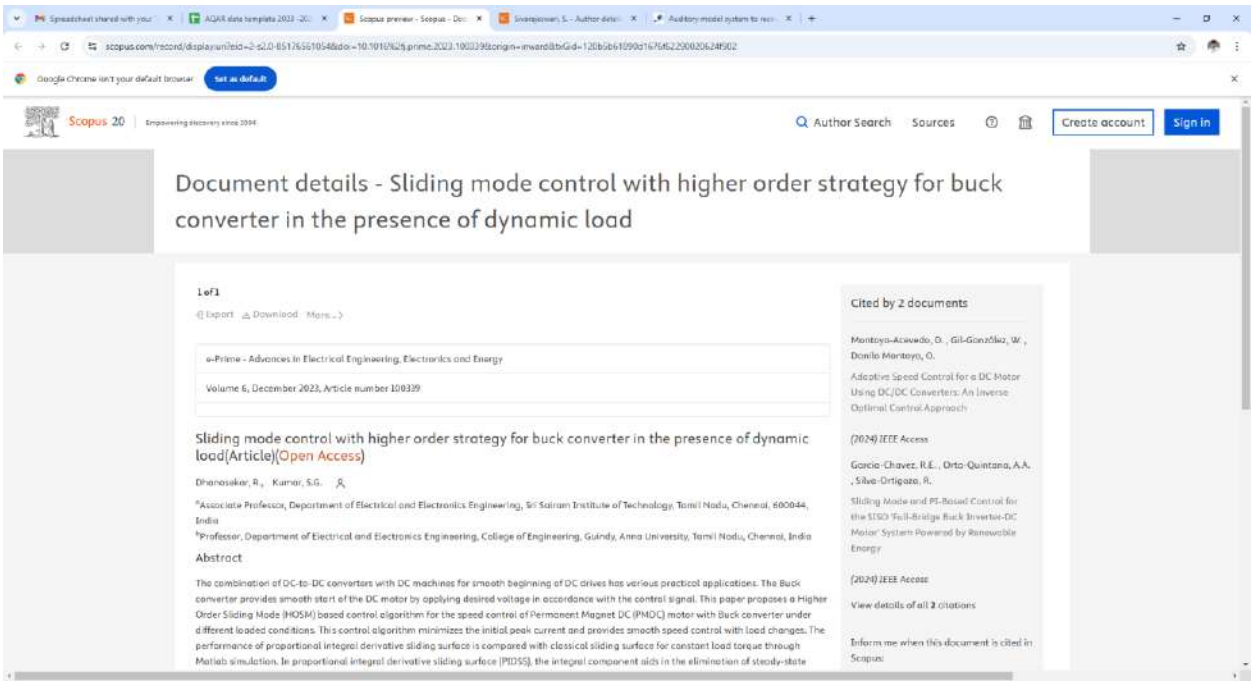
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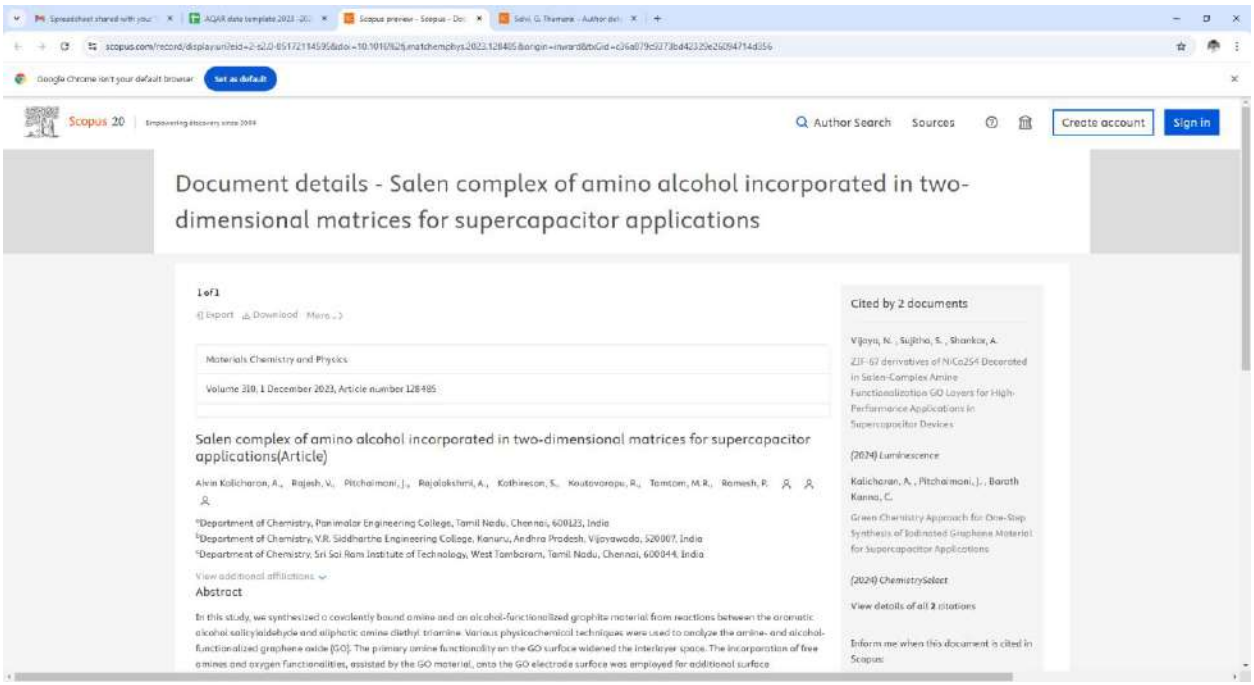
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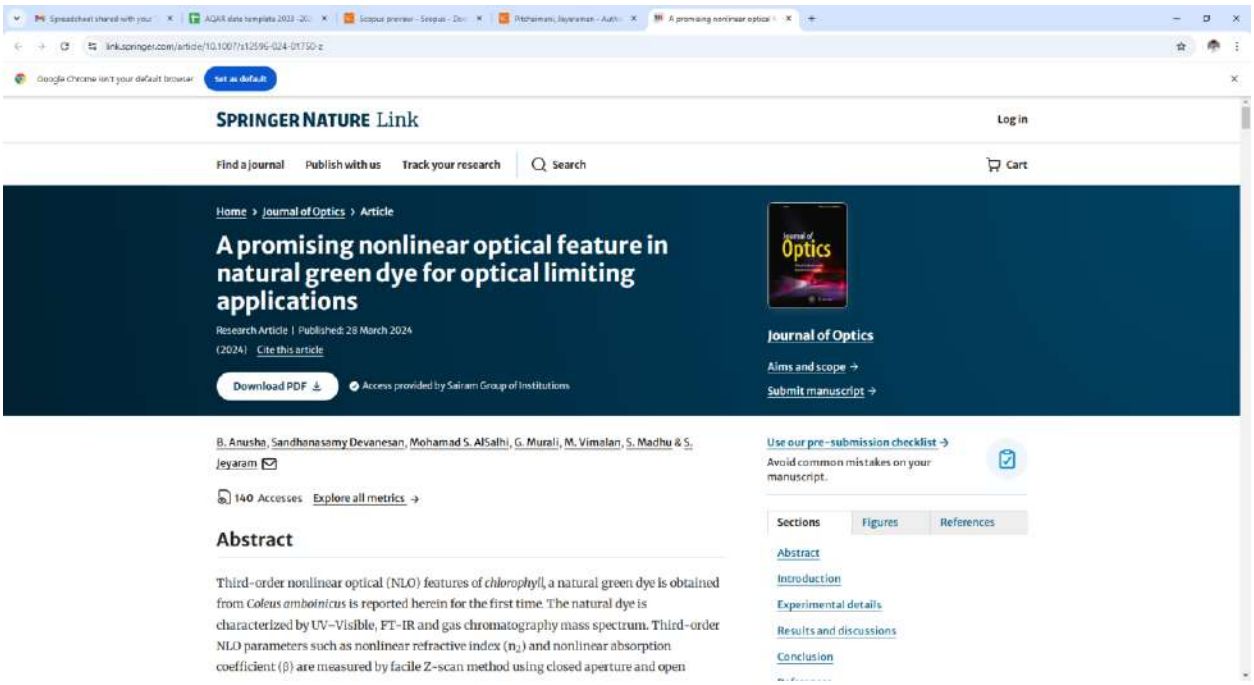

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A promising nonlinear optical feature in natural green dye for optical limiting applications

Research Article | Published: 28 March 2024

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Abstract

Introduction

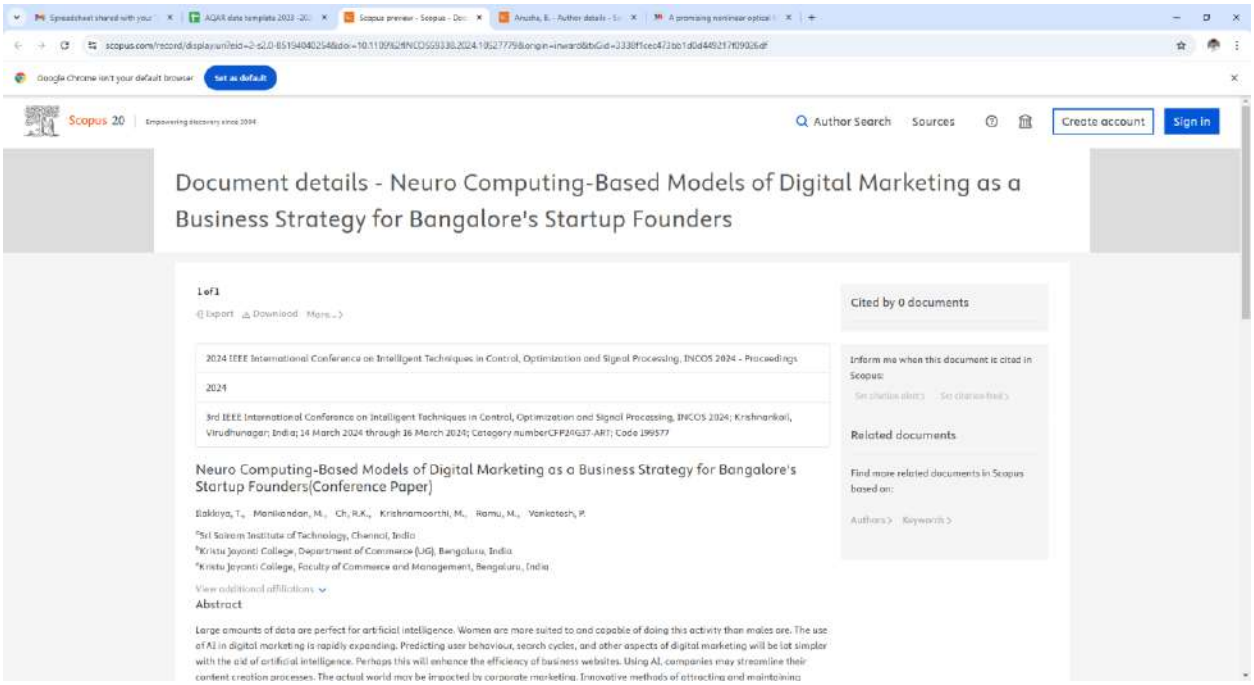
Experimental details

Results and discussions

Conclusion

Abstract

Third-order nonlinear optical (NLO) features of *chlorophyll*, a natural green dye is obtained from *Coleus amboinicus* is reported herein for the first time. The natural dye is characterized by UV–Visible, FT-IR and gas chromatography mass spectrum. Third-order NLO parameters such as nonlinear refractive index (n_2) and nonlinear absorption coefficient (β) are measured by facile Z-scan method using closed aperture and open



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3rd IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing, INCOS 2024; Krishnankoil, Virudhunagar; India; 14 March 2024 through 16 March 2024; Category numberCFP24G37-ART; Code 199577

Neuro Computing-Based Models of Digital Marketing as a Business Strategy for Bangalore's Startup Founders(Conference Paper)

Bakkiya, T., Manikandan, M., Ch, R.K., Krishnamoorthi, M., Ramu, M., Venkatesh, P.

[a]Sri Sairam Institute of Technology, Chennai, India
[b]Kristu Jayanti College, Department of Commerce (UG), Bengaluru, India
[c]Kristu Jayanti College, Faculty of Commerce and Management, Bengaluru, India

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Abstract

Large amounts of data are perfect for artificial intelligence. Women are more suited to and capable of doing this activity than males are. The use of AI in digital marketing is rapidly expanding. Predicting user behaviour, search cycles, and other aspects of digital marketing will be lot simpler with the aid of artificial intelligence. Perhaps this will enhance the efficiency of business websites. Using AI, companies may streamline their content creation processes. The actual world may be impacted by corporate marketing. Innovative methods of attracting and maintaining

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4th International Conference on Innovative Practices in Technology and Management, ICIPTM 2024; Noida; India; 21 February 2024 through 23 February 2024; Category numberCFP24IAC-ART; Code 203544
IoT and Hydrogen Transport: Revolutionizing Fuel Cell Vehicle Infrastructure(Conference Paper)
Priya M. P.A., Karthikeyani, P., Arunfred, N., Hariharan, M., Ramyadevi, K., Murugan, S.
[a]Sri Sairam Institute of Technology, Tamil Nadu, Chennai, India
[b]Thanthai Hans Roever College, Tamil Nadu, Perambalur, India
[c]Sim Institute of Science and Technology, Tamil Nadu, Chennai, India
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Abstract
The Internet of Things (IoT) in hydrogen transport and fuel cell vehicle infrastructure is a fundamental transformation. This work discusses how IoT devices transformed the system efficiently. By connecting IoT devices, this infrastructure improves effectiveness, security, and sustainability. Hydrogen sensors monitor storage, pipelines, and filling stations to optimize hydrogen supply. Flow meters control distribution and consumption, while pressure and temperature sensors maintain safety. Performance data from vehicle telematics optimizes fuel usage and
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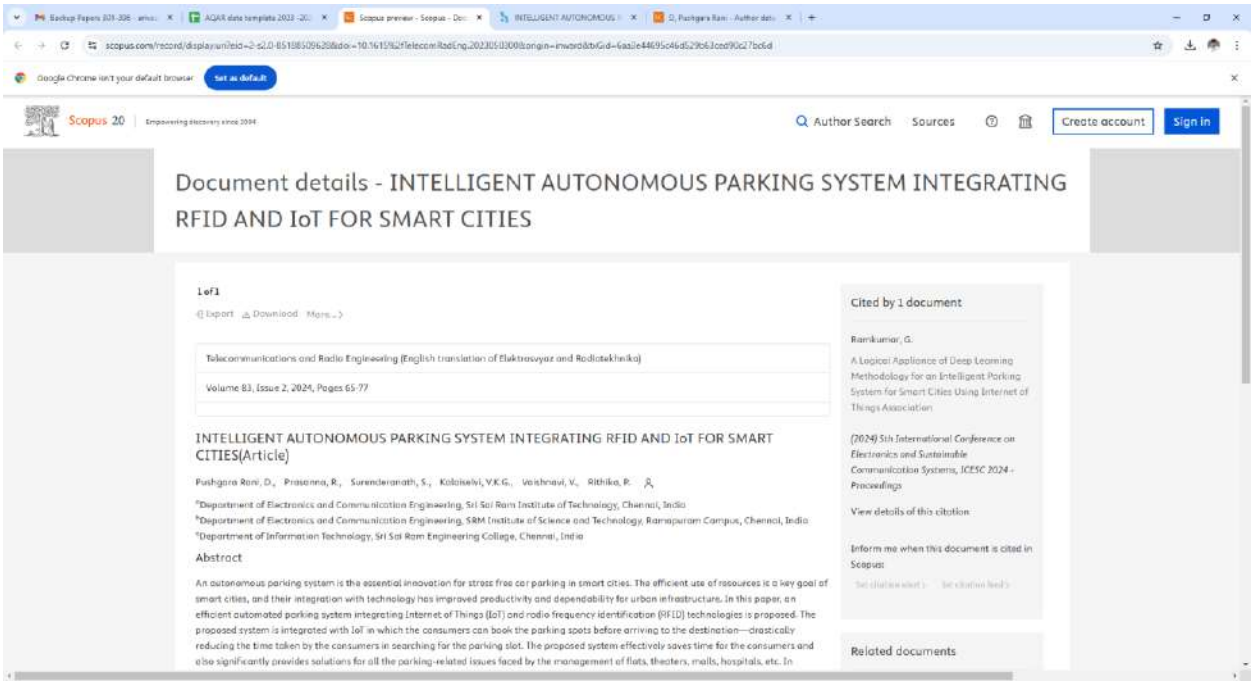
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INTELLIGENT AUTONOMOUS PARKING SYSTEM INTEGRATING RFID AND IoT FOR SMART CITIES(Article)
Pushgara Rani, D., Prasanna, R., Surendernath, S., Kalaiselvi, V.K.G., Vaishnavi, V., Rithika, P.
[a]Department of Electronics and Communication Engineering, Sri Sai Ram Institute of Technology, Chennai, India
[b]Department of Electronics and Communication Engineering, SRM Institute of Science and Technology, Ramapuram Campus, Chennai, India
[c]Department of Information Technology, Sri Sai Ram Engineering College, Chennai, India
Abstract
An autonomous parking system is the essential innovation for stress free car parking in smart cities. The efficient use of resources is a key goal of smart cities, and their integration with technology has improved productivity and dependability for urban infrastructure. In this paper, an efficient automated parking system integrating Internet of Things (IoT) and radio frequency identification (RFID) technologies is proposed. The proposed system is integrated with IoT in which the consumers can book the parking spots before arriving to the destination—drastically reducing the time taken by the consumers in searching for the parking slot. The proposed system effectively saves time for the consumers and also significantly provides solutions for all the parking-related issues faced by the management of flats, theaters, malls, hospitals, etc. In
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Ramkumar, G.
A Logical Appliance of Deep Learning Methodology for an Intelligent Parking System for Smart Cities Using Internet of Things Association
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Maintenance planning optimization through equipment performance prediction using machine learning based on inline instrument datasets—a surface condenser case study
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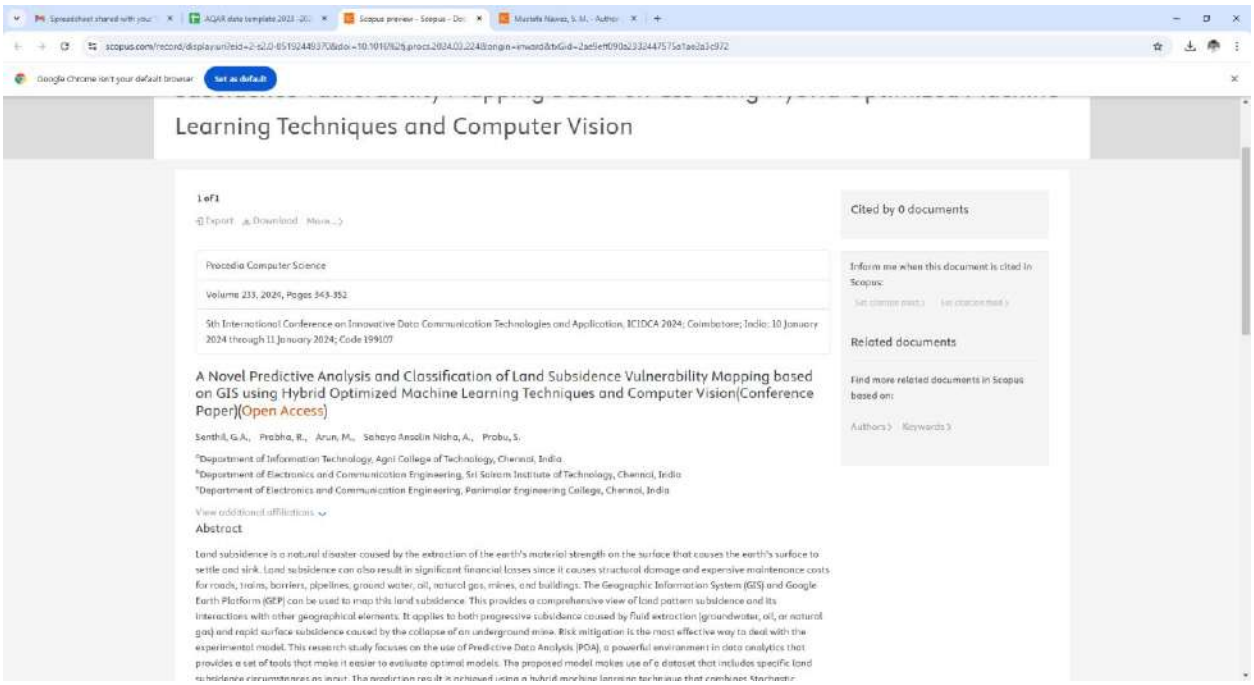

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5th International Conference on Innovative Data Communication Technologies and Application, ICIDCA 2024; Coimbatore; India; 10 January 2024 through 11 January 2024; Code 199107

A Novel Predictive Analysis and Classification of Land Subsidence Vulnerability Mapping based on GIS using Hybrid Optimized Machine Learning Techniques and Computer Vision(Conference Paper)(Open Access)

Senthil, G.A., Prabha, R., Arun, M., Sahaya Anselin Nisha, A., Probu, S.

[a]Department of Information Technology, Agni College of Technology, Chennai, India
[b]Department of Electronics and Communication Engineering, Sri Sairam Institute of Technology, Chennai, India
[c]Department of Electronics and Communication Engineering, Panimalar Engineering College, Chennai, India

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Abstract

Land subsidence is a natural disaster caused by the extraction of the earth's material strength on the surface that causes the earth's surface to settle and sink. Land subsidence can also result in significant financial losses since it causes structural damage and expensive maintenance costs for roads, trains, barriers, pipelines, ground water, oil, natural gas, mines, and buildings. The Geographic Information System (GIS) and Google Earth Platform (GEP) can be used to map this land subsidence. This provides a comprehensive view of land pattern subsidence and its interactions with other geographical elements. It applies to both progressive subsidence caused by fluid extraction (groundwater, oil, or natural gas) and rapid surface subsidence caused by the collapse of an underground mine. Risk mitigation is the most effective way to deal with the experimental model. This research study focuses on the use of Predictive Data Analysis (PDA), a powerful environment in data analytics that provides a set of tools that make it easier to evaluate optimal models. The proposed model makes use of a dataset that includes specific land subsidence circumstances as input. The prediction result is achieved using a hybrid machine learning technique that combines Stochastic

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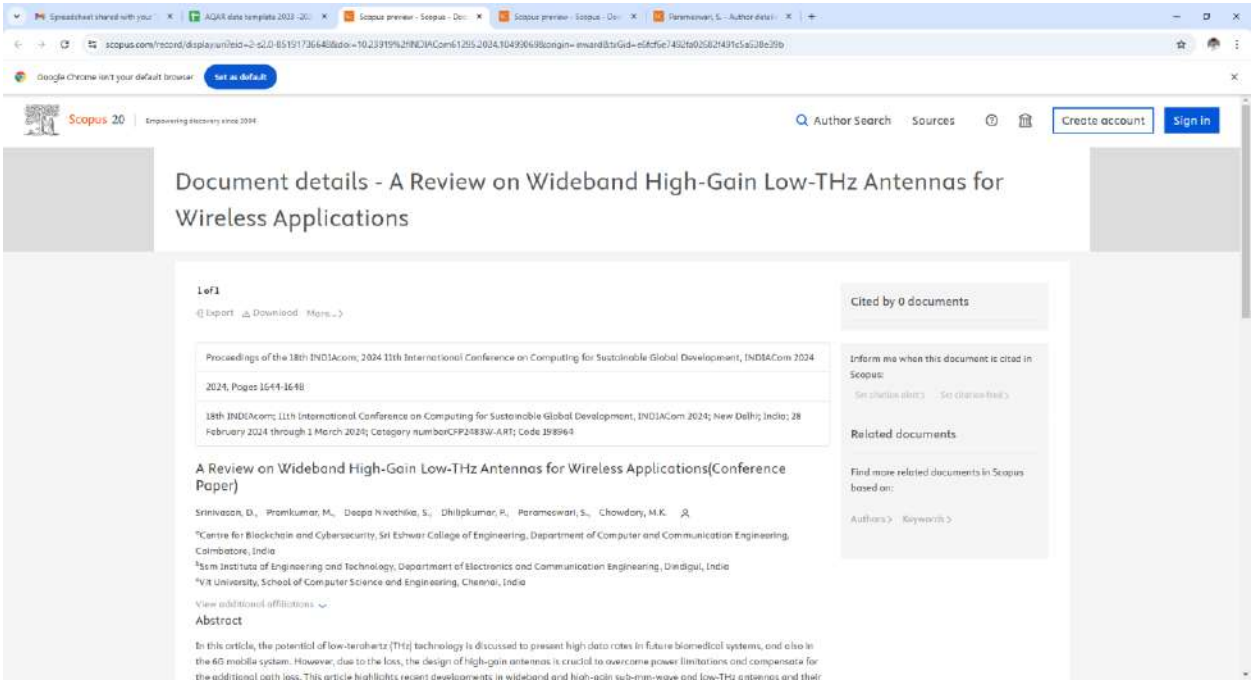

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A Review on Wideband High-Gain Low-THz Antennas for Wireless Applications(Conference Paper)

Srinivasan, D., Pramkumar, M., Deepa N Vachhika, S., Dhilipkumar, P., Parameswari, S., Chowdary, M.K.

[a]Centre for Blockchain and Cybersecurity, Sri Eshwar College of Engineering, Department of Computer and Communication Engineering, Coimbatore, India
[b]Ssm Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Dindigul, India
[c]Vit University, School of Computer Science and Engineering, Chennai, India

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Abstract

In this article, the potential of low-terahertz (THz) technology is discussed to present high data rates in future biomedical systems, and also in the 6G mobile system. However, due to the loss, the design of high-gain antennas is crucial to overcome power limitations and compensate for the additional path loss. This article highlights recent developments in wideband and high-gain sub-mm-wave and low-THz antennas and their

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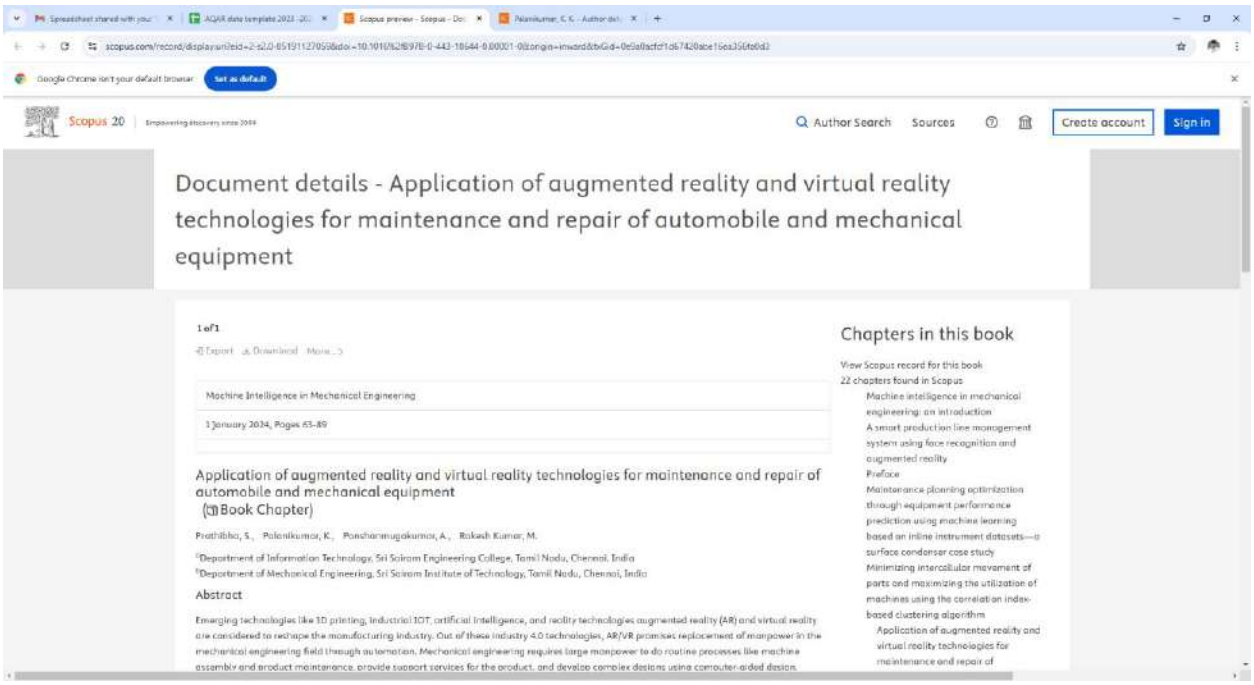
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(Book Chapter)
Prathibha, S., Palanikumar, K., Ponshanmugakumar, A., Rakesh Kumar, M.
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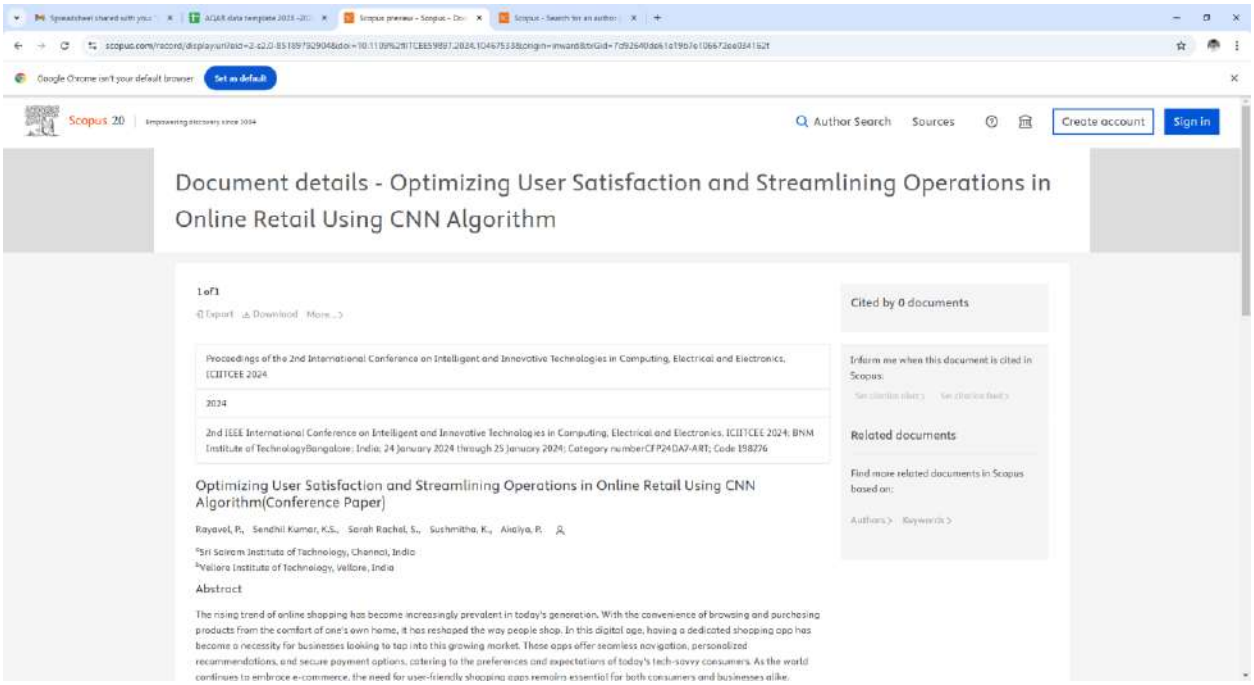
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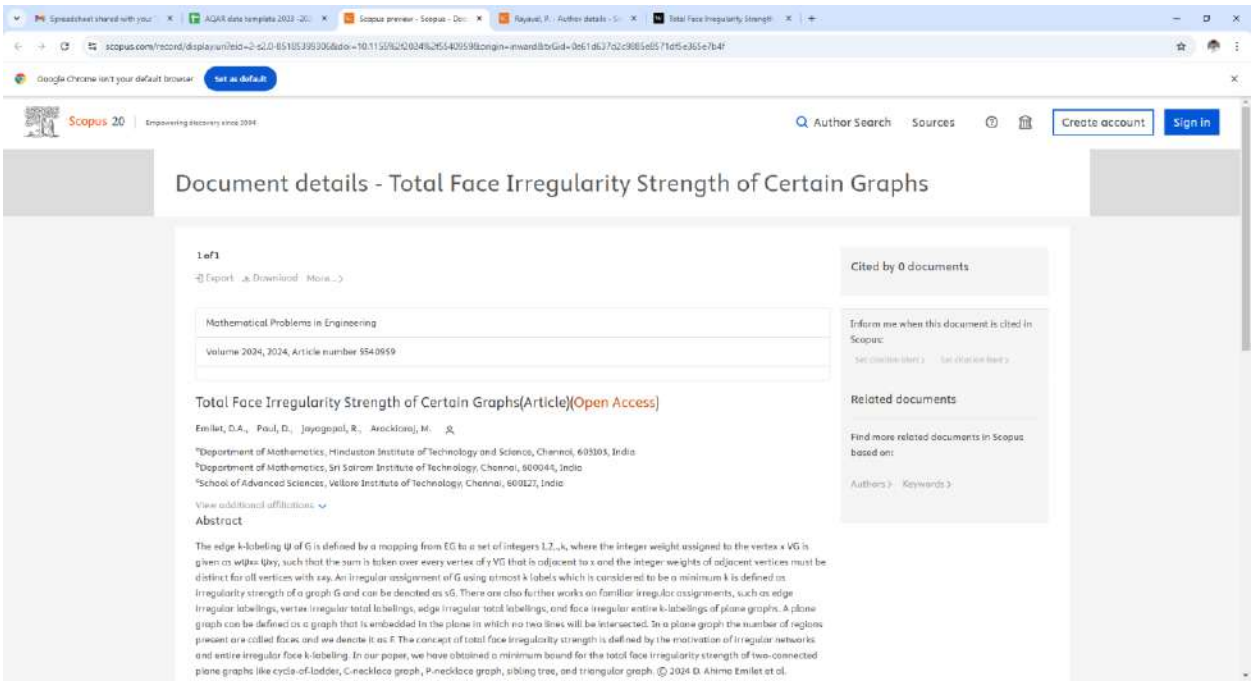

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Emilet, D.A., Paul, D., Jayagopal, R., Arockiaraj, M.

[a]Department of Mathematics, Hindustan Institute of Technology and Science, Chennai, 603103, India
[b]Department of Mathematics, Sri Sairam Institute of Technology, Chennai, 600044, India
[c]School of Advanced Sciences, Vellore Institute of Technology, Chennai, 600127, India

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Abstract

The edge k-labeling ψ of G is defined by a mapping from EG to a set of integers 1,2,...,k, where the integer weight assigned to the vertex x VG is given as w(x)=∑ψ(xy), such that the sum is taken over every vertex of y VG that is adjacent to x and the integer weights of adjacent vertices must be distinct for all vertices with xεy. An irregular assignment of G using atmost k labels which is considered to be a minimum k is defined as irregularity strength of a graph G and can be denoted as sG. There are also further works on familiar irregular assignments, such as edge irregular labellings, vertex irregular total labellings, edge irregular total labellings, and face irregular entire k-labellings of plane graphs. A plane graph can be defined as a graph that is embedded in the plane in which no two lines will be intersected. In a plane graph the number of regions present are called faces and we denote it as F. The concept of total face irregularity strength is defined by the motivation of irregular networks and entire irregular face k-labelling. In our paper, we have obtained a minimum bound for the total face irregularity strength of two-connected plane graphs like cycle-of-ladder, C-necklace graph, P-necklace graph, sibling tree, and triangular graph. © 2024 D. Ahima Emilet et al.

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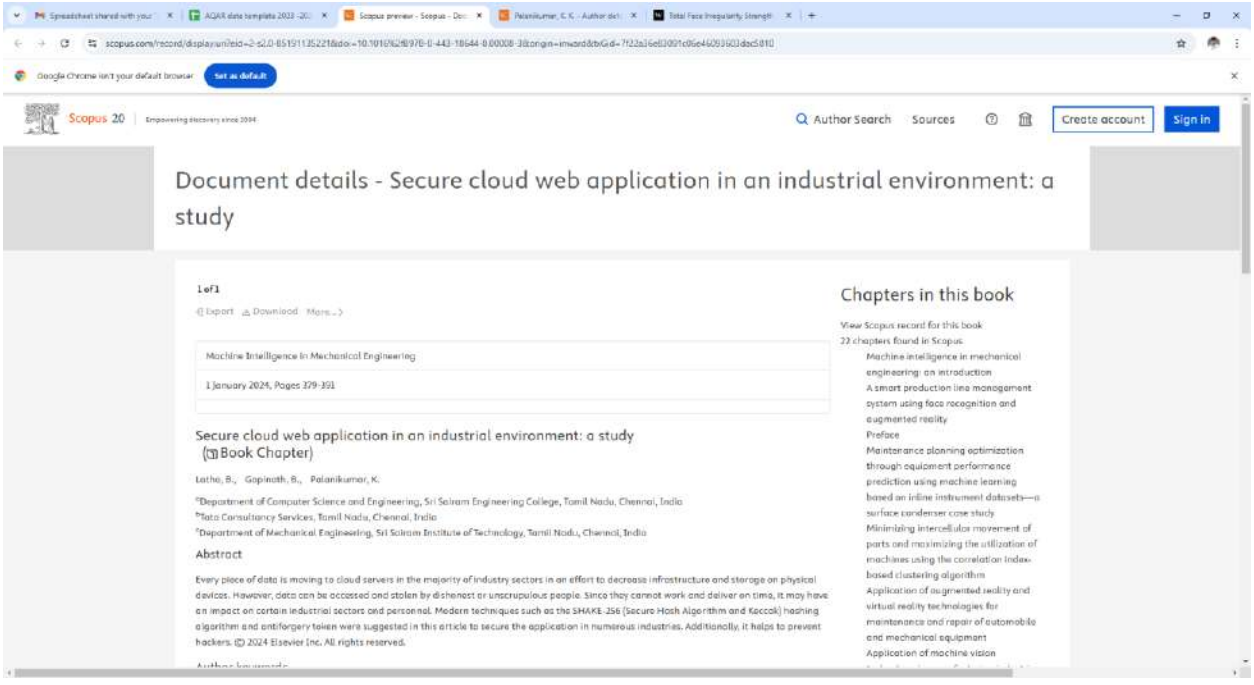

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Latha, B., Gopinath, B., Palanikumar, K.

[a]Department of Computer Science and Engineering, Sri Sairam Engineering College, Tamil Nadu, Chennai, India
[b]Tata Consultancy Services, Tamil Nadu, Chennai, India
[c]Department of Mechanical Engineering, Sri Sairam Institute of Technology, Tamil Nadu, Chennai, India

Abstract

Every piece of data is moving to cloud servers in the majority of industry sectors in an effort to decrease infrastructure and storage on physical devices. However, data can be accessed and stolen by dishonest or unscrupulous people. Since they cannot work and deliver on time, it may have an impact on certain industrial sectors and personnel. Modern techniques such as the SHAKE-256 (Secure Hash Algorithm and Keccak) hashing algorithm and antiforgery token were suggested in this article to secure the application in numerous industries. Additionally, it helps to prevent hackers. © 2024 Elsevier Inc. All rights reserved.

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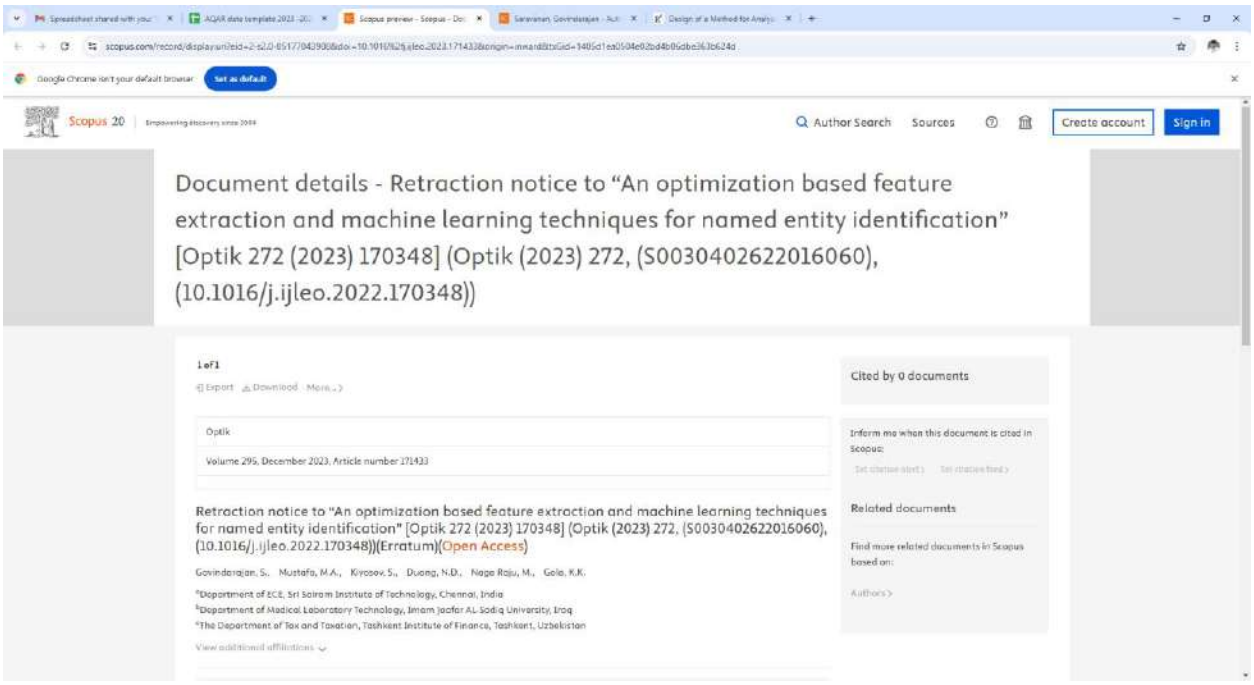

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Govindarajan, S., Mustafa, M.A., Kiryasov, S., Duong, N.D., Naga Raju, M., Gola, K.K.

[a]Department of ECE, Sri Sairam Institute of Technology, Chennai, India
[b]Department of Medical Laboratory Technology, Imam Jaafar AL-Sadiq University, Iraq
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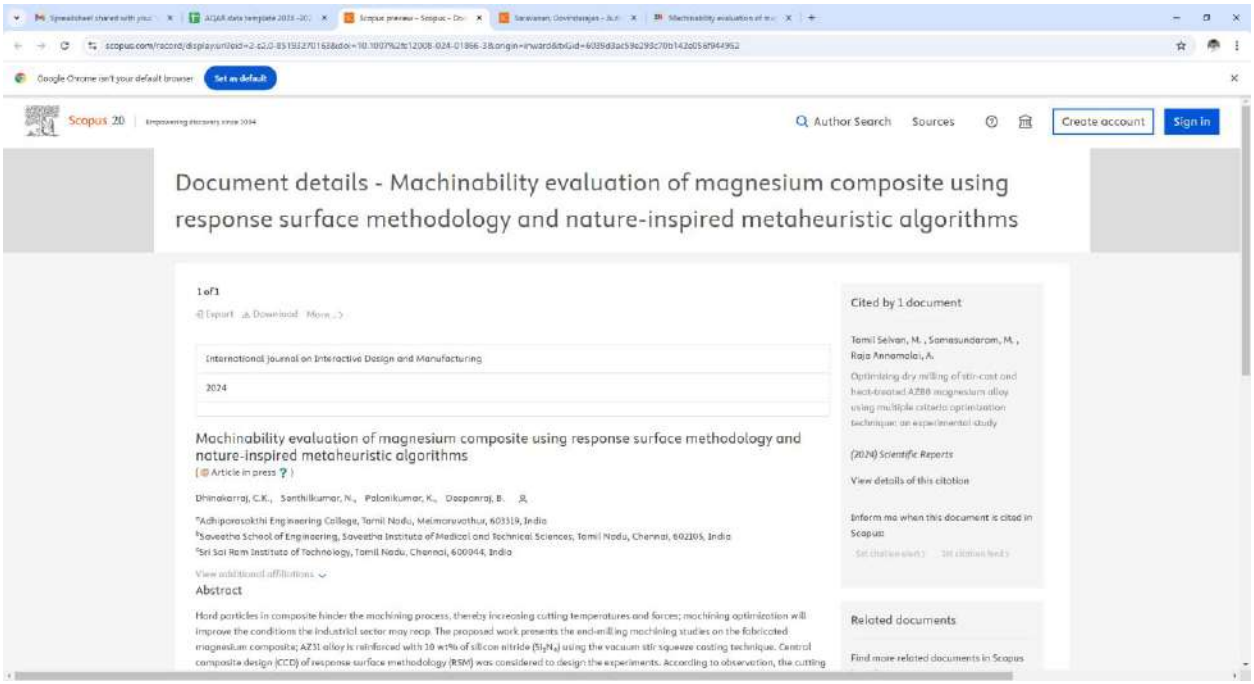

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Machinability evaluation of magnesium composite using response surface methodology and nature-inspired metaheuristic algorithms

(Article in press)

Dhinakarraj, C.K., Santhilkumar, N., Palanikumar, K., Deepanraj, B.

[a]Adhiparasakthi Engineering College, Tamil Nadu, Melmaruvathur, 603319, India
[b]Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Tamil Nadu, Chennai, 602105, India
[c]Sri Sai Ram Institute of Technology, Tamil Nadu, Chennai, 600044, India

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Abstract

Hard particles in composite hinder the machining process, thereby increasing cutting temperatures and forces; machining optimization will improve the conditions the industrial sector may reap. The proposed work presents the end-milling machining studies on the fabricated magnesium composite; AZ31 alloy is reinforced with 10 wt% of silicon nitride (Si_3N_4) using the vacuum stir squeeze casting technique. Central composite design (CCD) of response surface methodology (RSM) was considered to design the experiments. According to observation, the cutting

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Tamil Selvan, M., Samasundaram, M., Raja Annamalai, A.

Optimizing dry milling of stir-cast and heat-treated AZ80 magnesium alloy using multiple criteria optimization techniques: an experimental study

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(Book Chapter)
Natarajan, E., Palanikumar, K., Ramesh, S., Davim, J.P., Kumar, K.
Abstract
Machine intelligence is deployed by integrating sensory devices, machine vision, and artificial intelligence into the operation of the system. It can be employed in any real-time application. Artificial intelligence is employed to monitor and control the operations by taking the required decisions. The use of machine intelligence can be from small scale to robust autonomous production systems. After Industry 4.0 and technological advancements attracted the attention of the industrialists, many notable research and product developments have been done in the past few years. This article aims to showcase some of the notable implementations being conducted in mechanical engineering.
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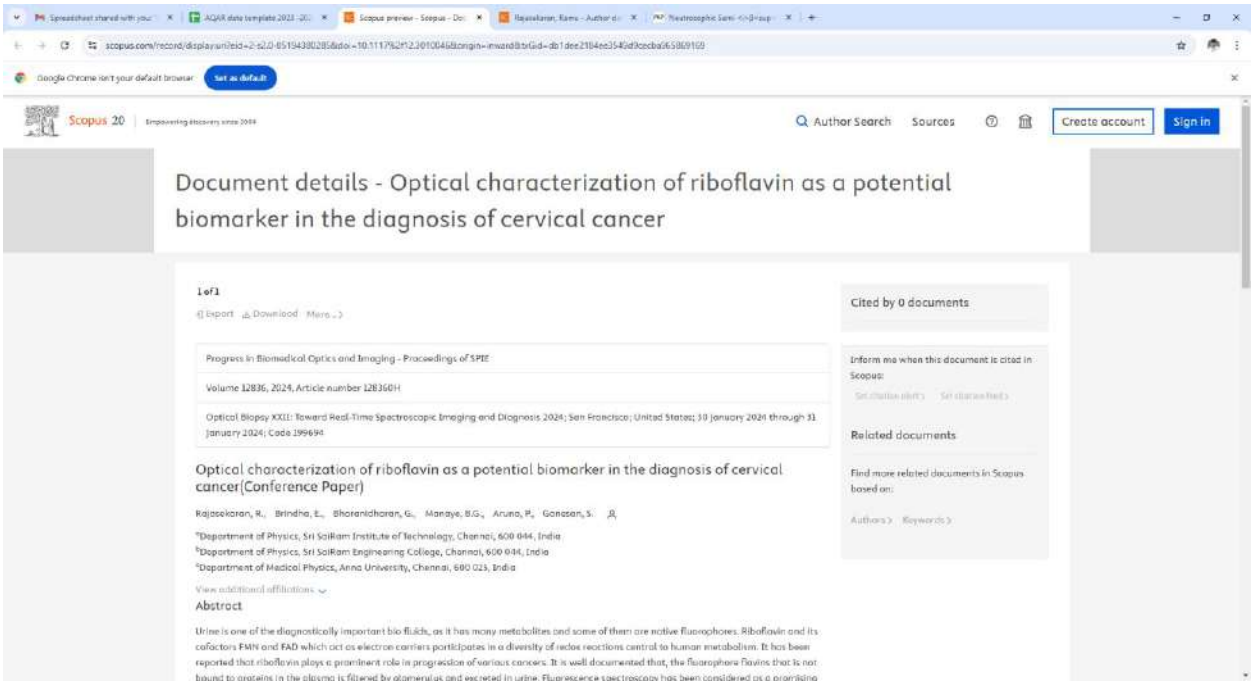
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Optical characterization of riboflavin as a potential biomarker in the diagnosis of cervical cancer(Conference Paper)
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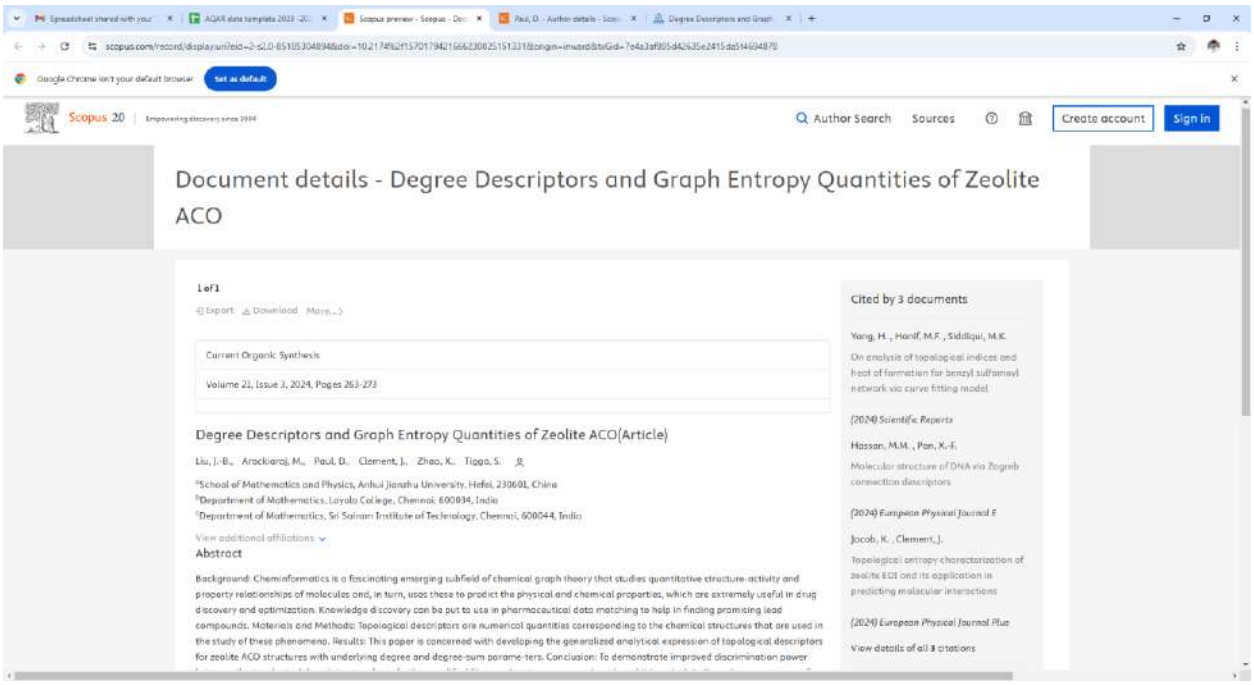
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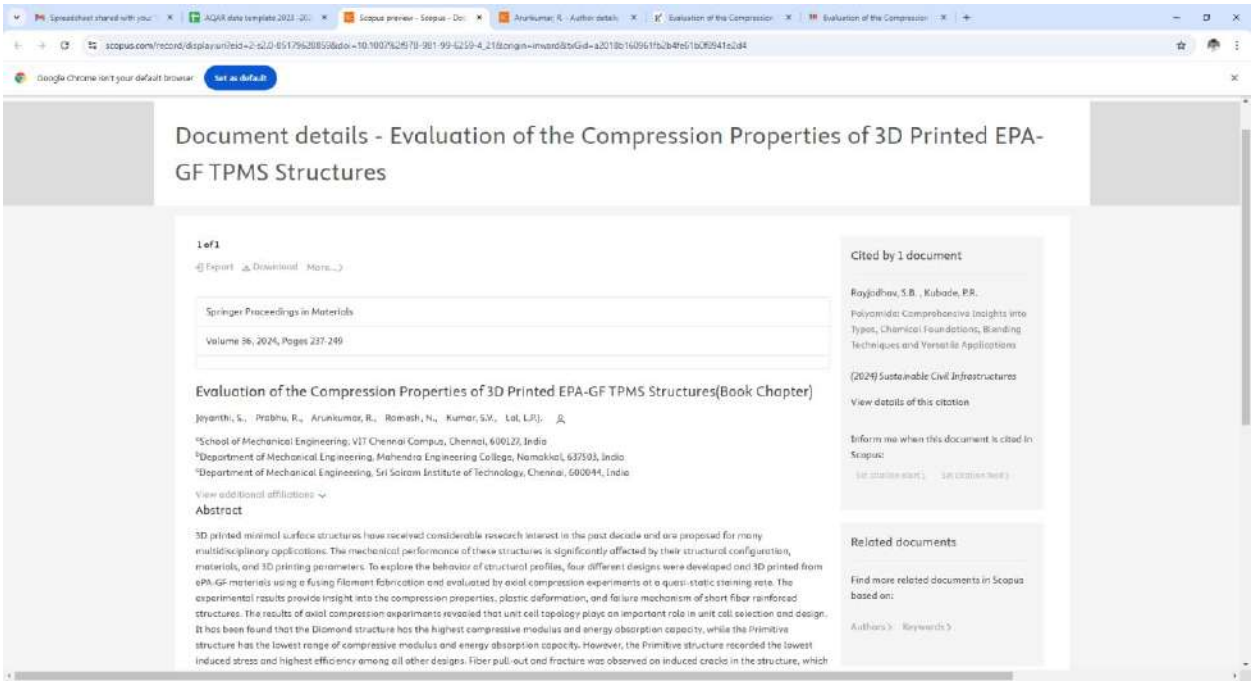
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1 January 2024, Pages 93-122
Application of machine vision technology in manufacturing industries—a study
(Book Chapter)
Palanikumar, K., Natarajan, E., Ponshanmugakumar, A.
[a]Department of Mechanical Engineering, Sri Sairam Institute of Technology, Tamil Nadu, Chennai, India
[b]Department of Mechanical Engineering, Engineering, Technology and Built Environment, UCSI University, Kuala Lumpur, Malaysia
Abstract
Machine vision is the set of data and techniques used to conduct image-based automated inspections for quality checks, process monitoring, and industrial automation. Machine Vision (MV) is utilised for optical gauging, quality control, sorting, component assembly inspection, presence or absence recognition, and process industries management. These are some possibilities for completing a task. Verifying components with machine vision technology helps ensure quality and keep the process operating smoothly. Process control, specialised applications, the pharmaceutical industry, the food and beverage industry, the electronic packaging industry, and the automobile industry, to name a few, all use machine vision technologies. This article discusses how to acquire measurements, rearrange optical characters, regulate a process with image processing, and identify whether final product components are on or off the assembly line. The major goal of this research is to raise public knowledge of machine vision technologies. This will result in greater production quality, less scrap goods as a result of nonconformities caused by the use of machine vision to manage the manufacturing process, and the end of any value-added work done on scrap product during succeeding manufacturing stages. Each of these goals corresponded to a research goal. In other words, this technology will increase manufacturing quality while minimising product waste owing to non-conformance difficulties. Most strategies outlined in this article, and the
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Application of machine vision technology in manufacturing industries—a study
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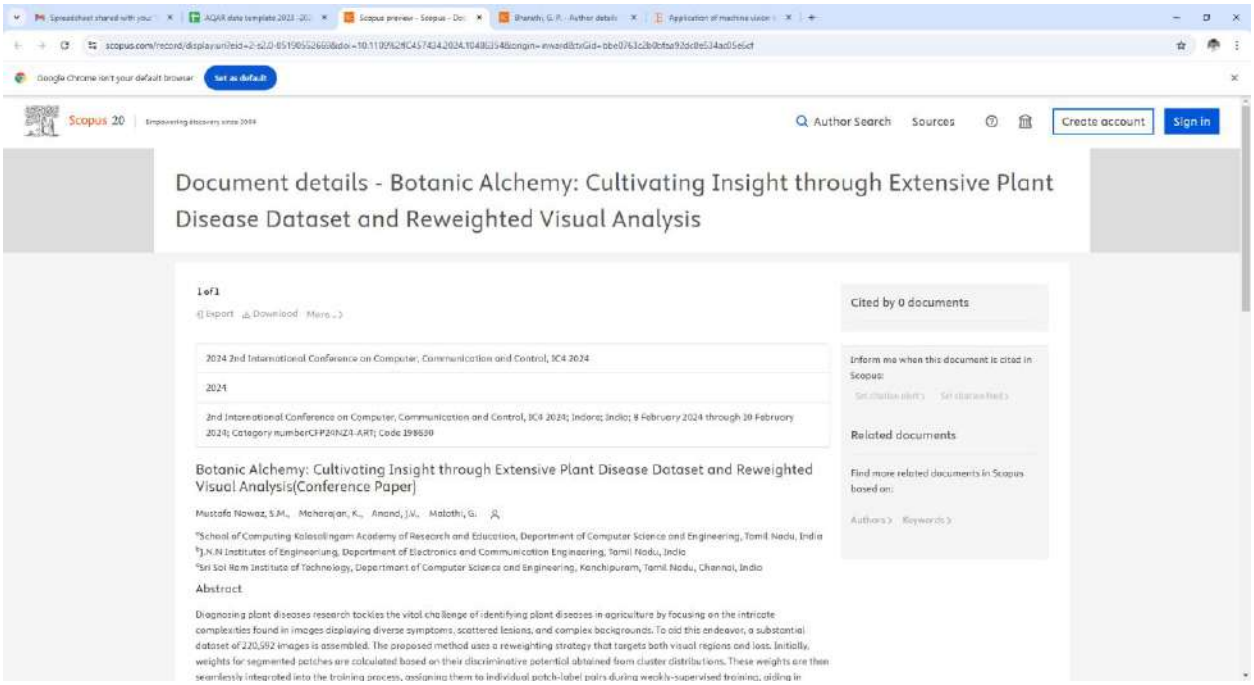
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Botanic Alchemy: Cultivating Insight through Extensive Plant Disease Dataset and Reweighted Visual Analysis(Conference Paper)
Mustafa Nawaz, S.M., Maharajan, K., Anand, J.V., Malathi, G.
[a]School of Computing Kalasalingam Academy of Research and Education, Department of Computer Science and Engineering, Tamil Nadu, India
[b]J.N.N Institutes of Engineering, Department of Electronics and Communication Engineering, Tamil Nadu, India
[c]Sri Sai Ram Institute of Technology, Department of Computer Science and Engineering, Kanchipuram, Tamil Nadu, Chennai, India
Abstract
Diagnosing plant diseases research tackles the vital challenge of identifying plant diseases in agriculture by focusing on the intricate complexities found in images displaying diverse symptoms, scattered lesions, and complex backgrounds. To aid this endeavor, a substantial dataset of 220,592 images is assembled. The proposed method uses a reweighting strategy that targets both visual regions and loss. Initially, weights for segmented patches are calculated based on their discriminative potential obtained from cluster distributions. These weights are then seamlessly integrated into the training process, assigning them to individual patch-label pairs during weakly-supervised training, aiding in
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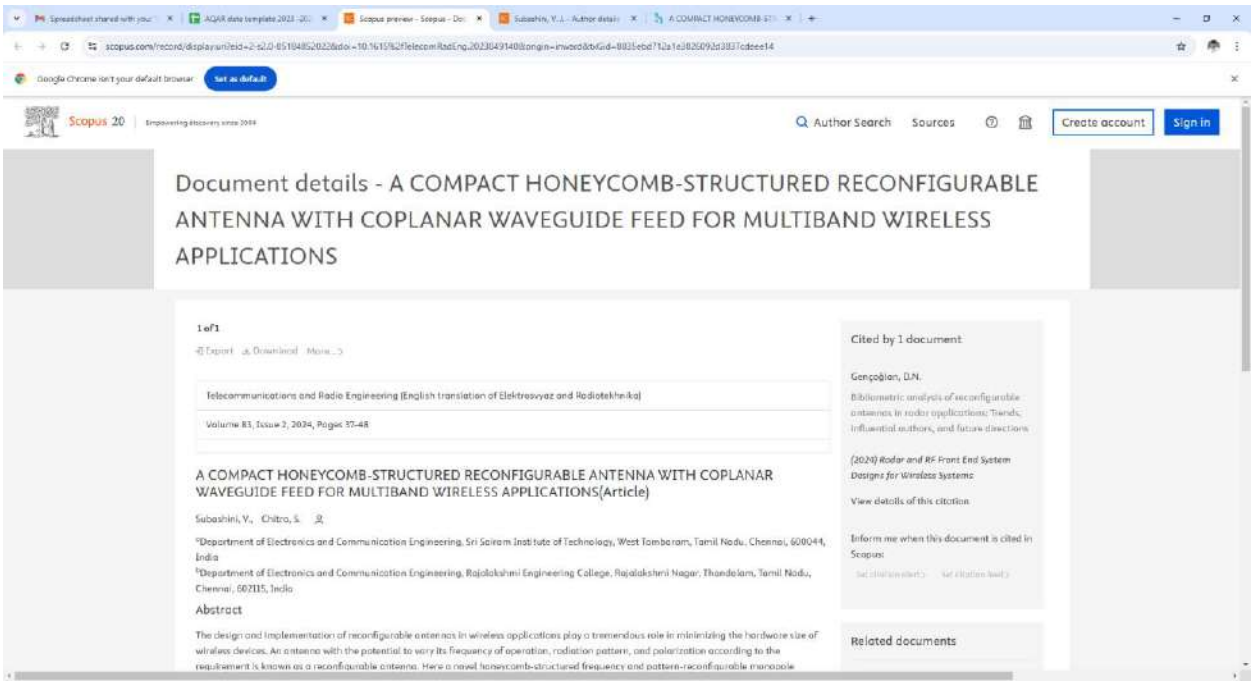
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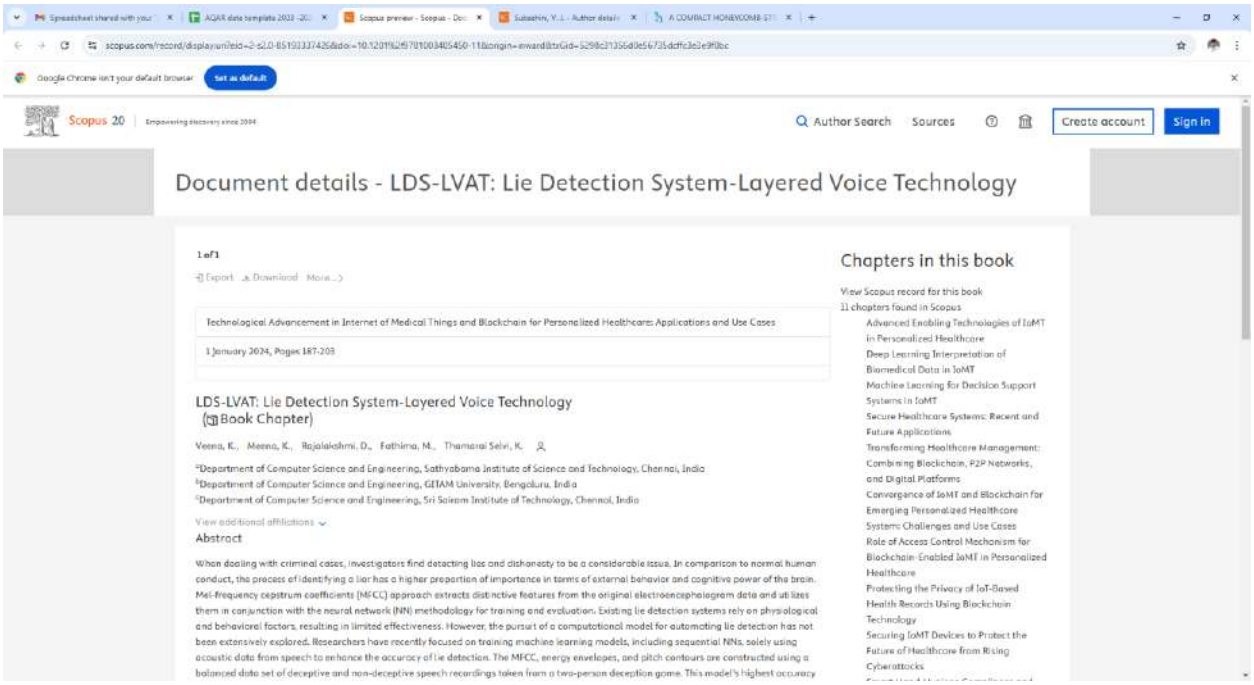
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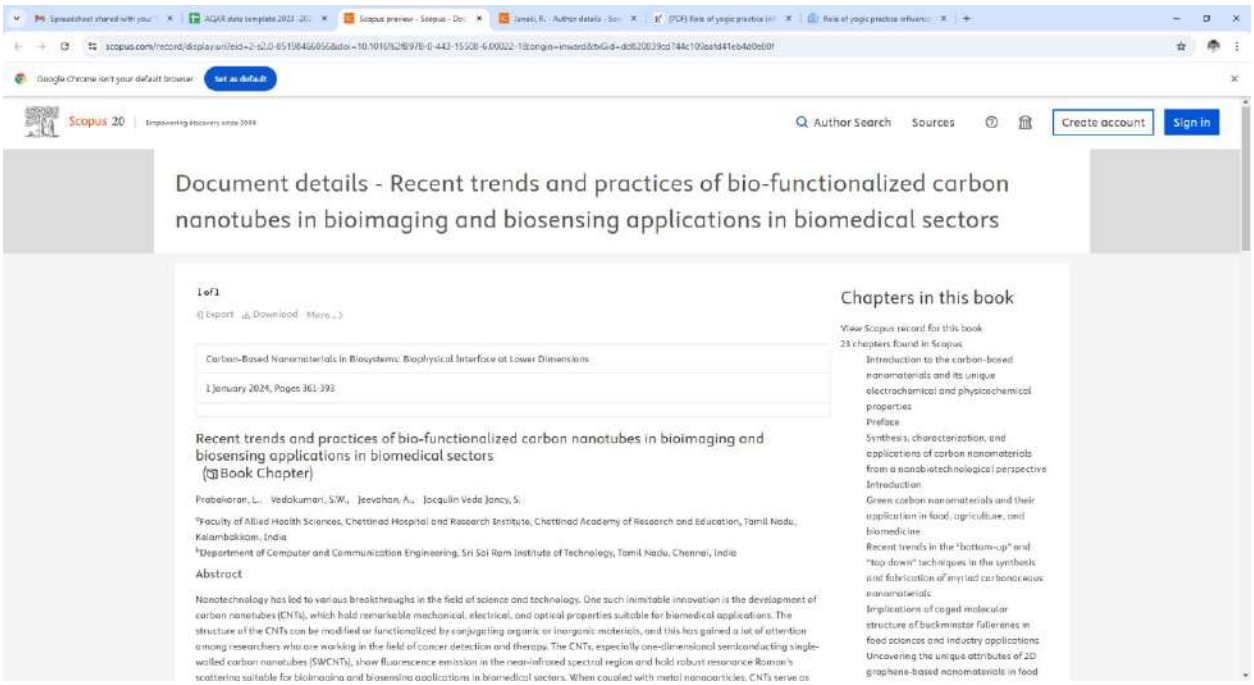
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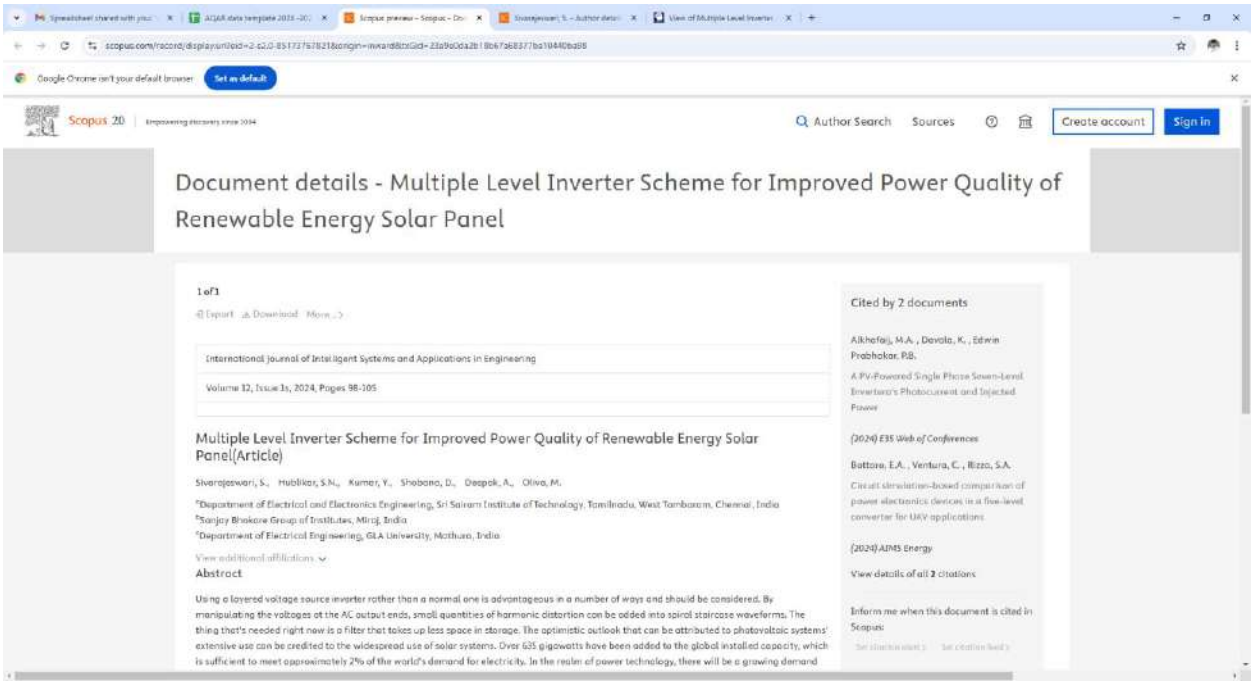
Uncovering the unique attributes of 2D graphene-based nanomaterials in food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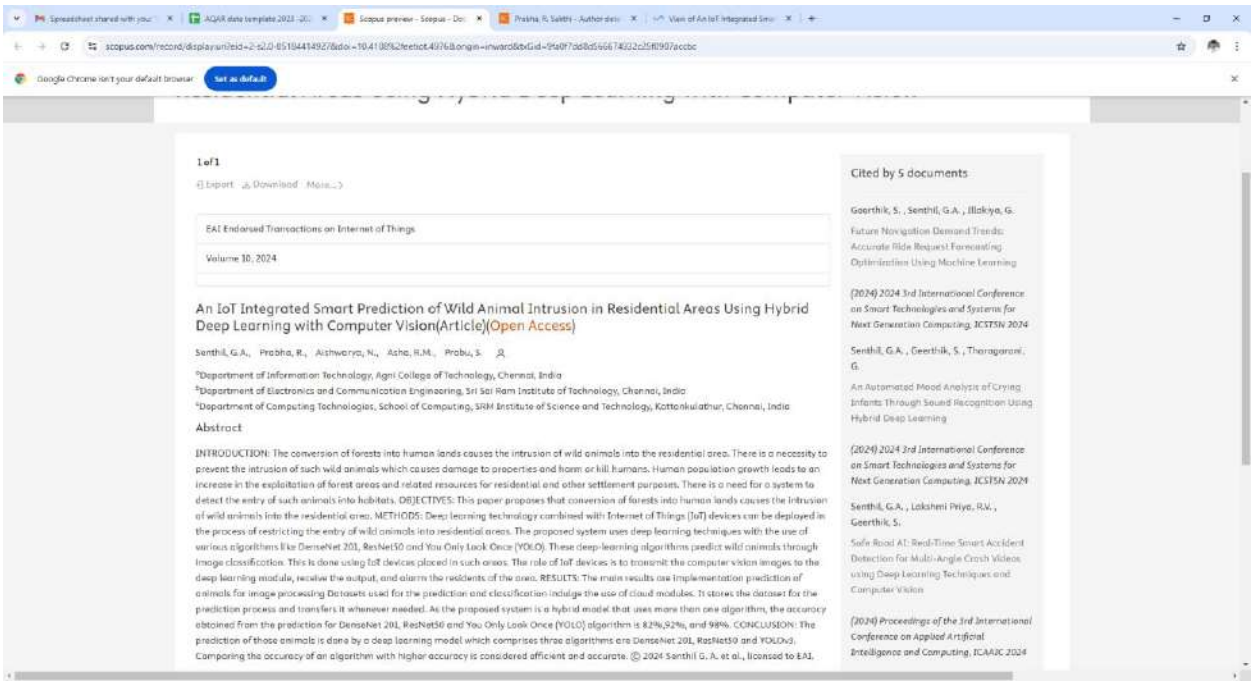

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An IoT Integrated Smart Prediction of Wild Animal Intrusion in Residential Areas Using Hybrid Deep Learning with Computer Vision(Article)(Open Access)

Senthil, G.A., Prabha, R., Aishwarya, N., Asha, R.M., Prabu, S.

[a]Department of Information Technology, Agni College of Technology, Chennai, India
[b]Department of Electronics and Communication Engineering, Sri Sai Ram Institute of Technology, Chennai, India
[c]Department of Computing Technologies, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Chennai, India

Abstract

INTRODUCTION: The conversion of forests into human lands causes the intrusion of wild animals into the residential area. There is a necessity to prevent the intrusion of such wild animals which causes damage to properties and harm or kill humans. Human population growth leads to an increase in the exploitation of forest areas and related resources for residential and other settlement purposes. There is a need for a system to detect the entry of such animals into habitats. OBJECTIVES: This paper proposes that conversion of forests into human lands causes the intrusion of wild animals into the residential area. METHODS: Deep learning technology combined with Internet of Things (IoT) devices can be deployed in the process of restricting the entry of wild animals into residential areas. The proposed system uses deep learning techniques with the use of various algorithms like DenseNet 201, ResNet50 and You Only Look Once (YOLO). These deep-learning algorithms predict wild animals through image classification. This is done using IoT devices placed in such areas. The role of IoT devices is to transmit the computer vision images to the deep learning module, receive the output, and alarm the residents of the area. RESULTS: The main results are implementation prediction of animals for image processing Datasets used for the prediction and classification include the use of cloud modules. It stores the dataset for the prediction process and transfers it whenever needed. As the proposed system is a hybrid model that uses more than one algorithm, the accuracy obtained from the prediction for DenseNet 201, ResNet50 and You Only Look Once (YOLO) algorithm is 82%,92%, and 98%. CONCLUSION: The prediction of those animals is done by a deep learning model which comprises three algorithms are DenseNet 201, ResNet50 and YOLOv3. Comparing the accuracy of an algorithm with higher accuracy is considered efficient and accurate.

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Future Navigation Demand Trends: Accurate Ride Request Forecasting Optimization Using Machine Learning
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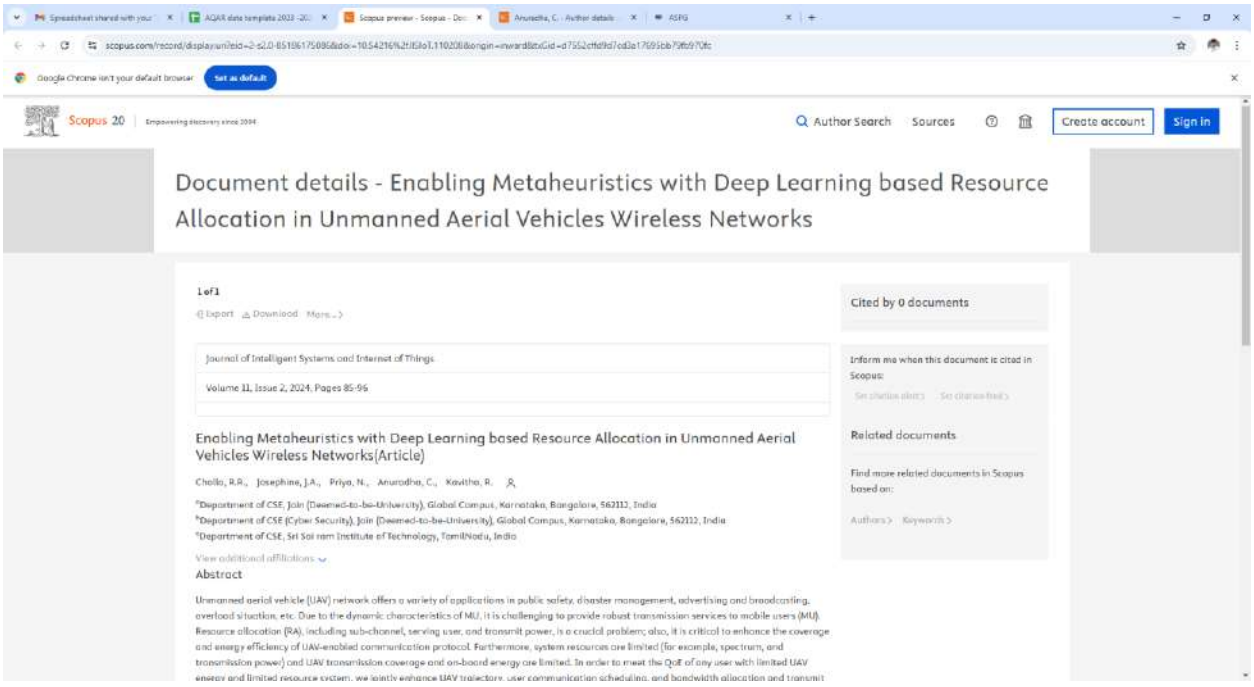
Senthil, G.A. , Geerthik, S. , Tharagaram, G.
An Automated Mood Analysis of Crying Infants Through Sound Recognition Using Hybrid Deep Learning
(2024) 2024 3rd International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN 2024

Senthil, G.A. , Lakshmi Priya, R.M. , Geerthik, S.
Safe Road AI: Real-Time Smart Accident Detection for Multi-Angle Crash Videos using Deep Learning Techniques and Computer Vision
(2024) Proceedings of the 3rd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2024



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Enabling Metaheuristics with Deep Learning based Resource Allocation in Unmanned Aerial Vehicles Wireless Networks(Article)

Chella, R.R., Josephine, J.A., Priya, N., Anuradha, C., Kavitha, R.

[a]Department of CSE, Jain (Deemed-to-be-University), Global Campus, Karnataka, Bangalore, 562112, India
[b]Department of CSE (Cyber Security), Jain (Deemed-to-be-University), Global Campus, Karnataka, Bangalore, 562112, India
[c]Department of CSE, Sri Sai ram Institute of Technology, TamilNadu, India

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Abstract

Unmanned aerial vehicle (UAV) network offers a variety of applications in public safety, disaster management, advertising and broadcasting, overload situation, etc. Due to the dynamic characteristics of MU, it is challenging to provide robust transmission services to mobile users (MU). Resource allocation (RA), including sub-channel, serving user, and transmit power, is a crucial problem; also, it is critical to enhance the coverage and energy efficiency of UAV-enabled communication protocol. Furthermore, system resources are limited (for example, spectrum, and transmission power) and UAV transmission coverage and on-board energy are limited. In order to meet the QoE of any user with limited UAV energy and limited resource system, we jointly enhance UAV trajectory, user communication scheduling, and bandwidth allocation and transmit

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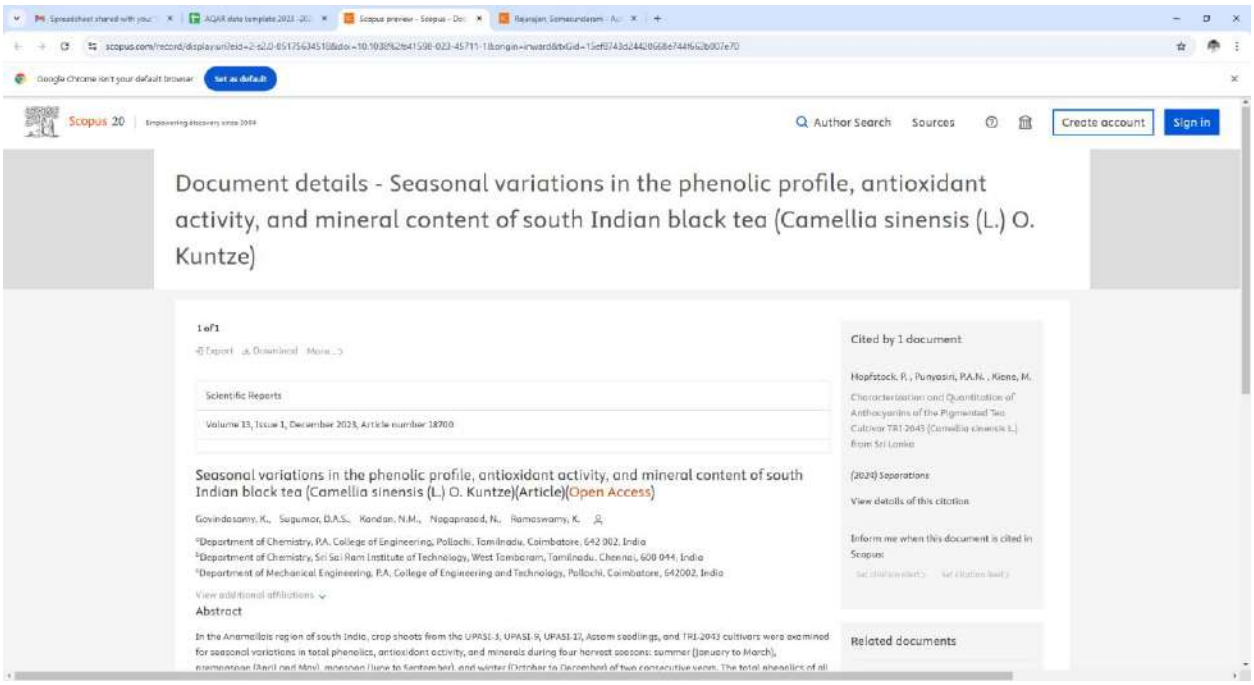
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Seasonal variations in the phenolic profile, antioxidant activity, and mineral content of south Indian black tea (Camellia sinensis (L.) O. Kuntze)(Article)(Open Access)
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Hopfstock, R., Punyasiri, P.A.N., Kiens, M.
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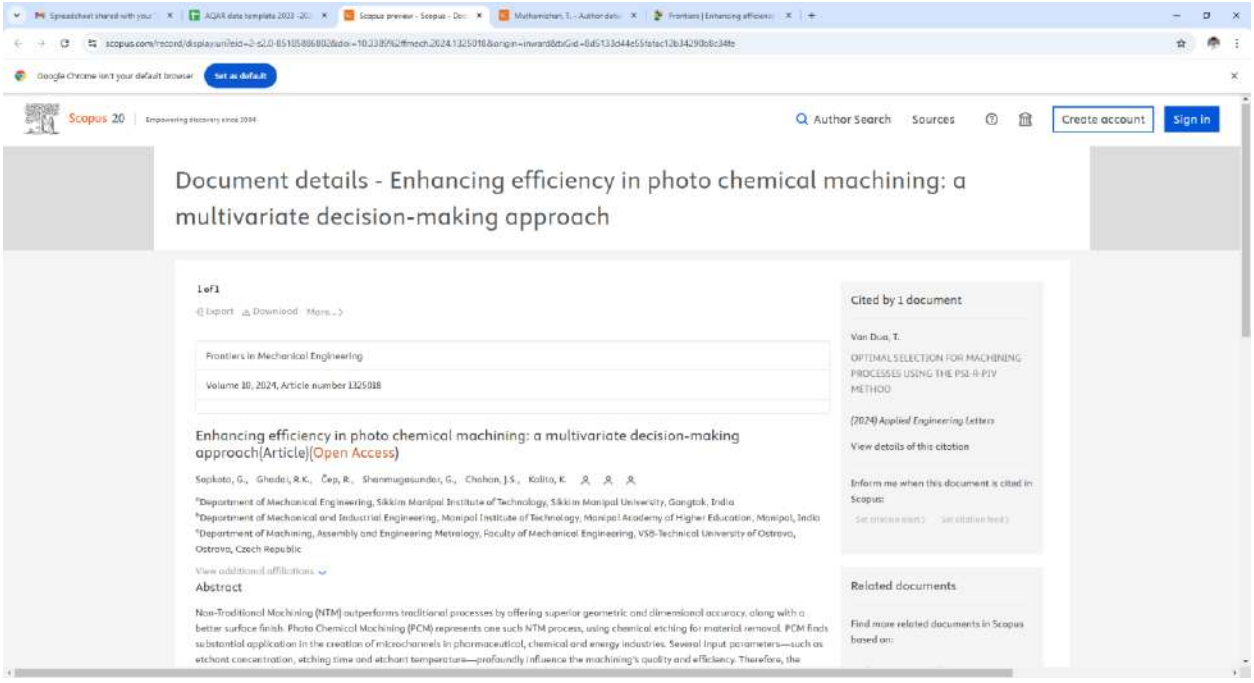
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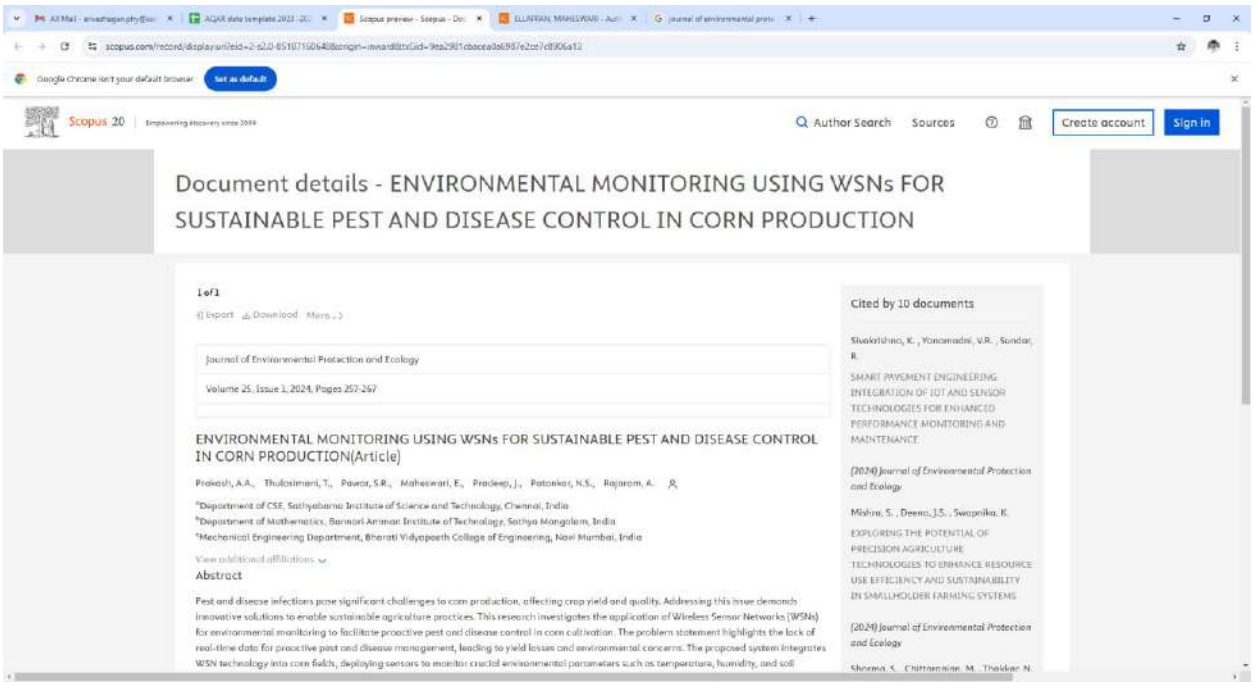

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Journal of Environmental Protection and Ecology

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ENVIRONMENTAL MONITORING USING WSNs FOR SUSTAINABLE PEST AND DISEASE CONTROL IN CORN PRODUCTION(Article)

Prakash, A.A., Thulasimani, T., Pawar, S.R., Maheswari, E., Pradeep, J., Patoekar, N.S., Rajaram, A.

[a]Department of CSE, Sathyabama Institute of Science and Technology, Chennai, India
[b]Department of Mathematics, Bannari Amman Institute of Technology, Sathya Mangalam, India
[c]Mechanical Engineering Department, Bharati Vidyapeeth College of Engineering, Navi Mumbai, India

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Abstract

Pest and disease infections pose significant challenges to corn production, affecting crop yield and quality. Addressing this issue demands innovative solutions to enable sustainable agriculture practices. This research investigates the application of Wireless Sensor Networks (WSNs) for environmental monitoring to facilitate proactive pest and disease control in corn cultivation. The problem statement highlights the lack of real-time data for proactive pest and disease management, leading to yield losses and environmental concerns. The proposed system integrates WSN technology into corn fields, deploying sensors to monitor crucial environmental parameters such as temperature, humidity, and soil

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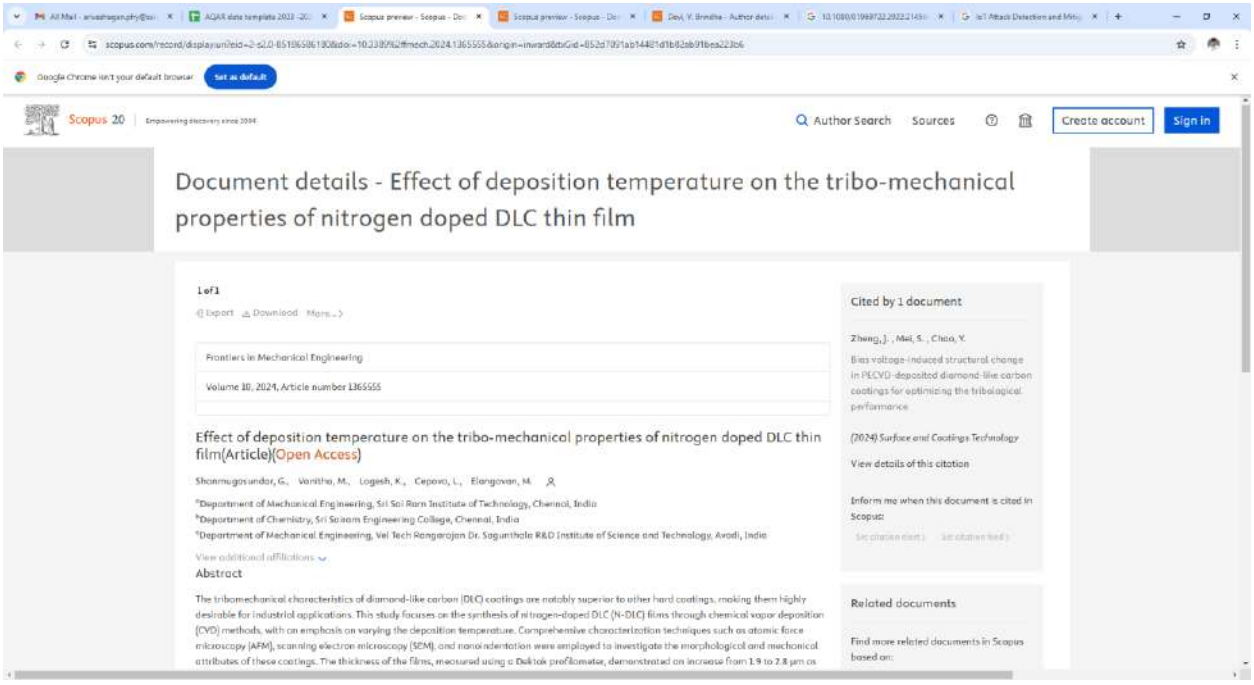
Sivakrishna, K. , Yonamadhi, V.R. , Sundar, R.
SMART PAVEMENT ENGINEERING INTEGRATION OF IOT AND SENSOR TECHNOLOGIES FOR ENHANCED PERFORMANCE MONITORING AND MAINTENANCE
(2024) Journal of Environmental Protection and Ecology

Mishra, S. , Deena, J.S. , Swapnika, K.
EXPLORING THE POTENTIAL OF PRECISION AGRICULTURE TECHNOLOGIES TO ENHANCE RESOURCE USE EFFICIENCY AND SUSTAINABILITY IN SMALLHOLDER FARMING SYSTEMS
(2024) Journal of Environmental Protection and Ecology

Sharma, S. , Chittampalli, M. , Thakkar, N.



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Effect of deposition temperature on the tribo-mechanical properties of nitrogen doped DLC thin film(Article)(Open Access)

Shanmugasundar, G., Vanitha, M., Logesh, K., Cepova, L., Elangovan, M.

[a]Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai, India
[b]Department of Chemistry, Sri Sairam Engineering College, Chennai, India
[c]Department of Mechanical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, India

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Abstract

The tribomechanical characteristics of diamond-like carbon (DLC) coatings are notably superior to other hard coatings, making them highly desirable for industrial applications. This study focuses on the synthesis of nitrogen-doped DLC (N-DLC) films through chemical vapor deposition (CVD) methods, with an emphasis on varying the deposition temperature. Comprehensive characterization techniques such as atomic force microscopy (AFM), scanning electron microscopy (SEM), and nanoindentation were employed to investigate the morphological and mechanical attributes of these coatings. The thickness of the films, measured using a Dektak profilometer, demonstrated an increase from 1.9 to 2.8 μm as

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Zhang, J. , Mei, S. , Chao, Y.
Bias voltage-induced structural change in PECVD-deposited diamond-like carbon coatings for optimizing the tribological performance
(2024) Surface and Coatings Technology

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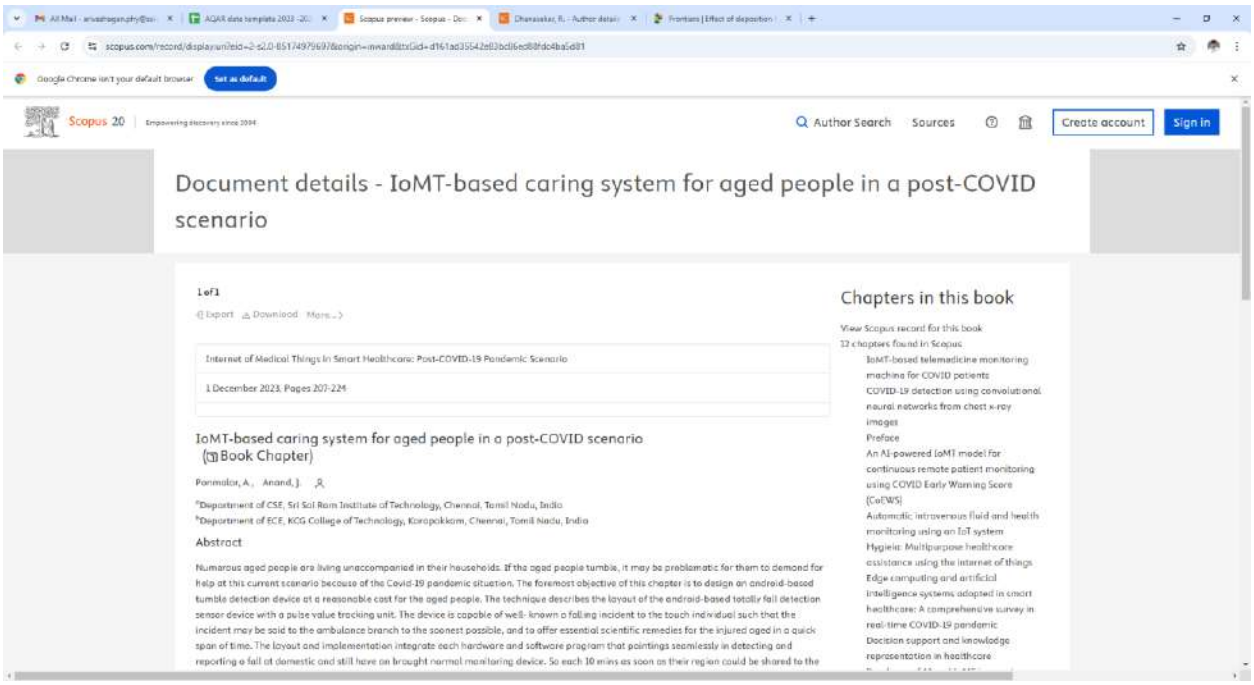

Document details - IoMT-based caring system for aged people in a post-COVID scenario

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Internet of Medical Things in Smart Healthcare: Post-COVID-19 Pandemic Scenario

1 December 2023, Pages 207-224

IoMT-based caring system for aged people in a post-COVID scenario (Book Chapter)

Ponmalar, A., Anand, J.

[a]Department of CSE, Sri Sai Ram Institute of Technology, Chennai, Tamil Nadu, India
[b]Department of ECE, KCG College of Technology, Karapakkam, Chennai, Tamil Nadu, India

Abstract

Numerous aged people are living unaccompanied in their households. If the aged people tumble, it may be problematic for them to demand for help at this current scenario because of the Covid-19 pandemic situation. The foremost objective of this chapter is to design an android-based tumble detection device at a reasonable cost for the aged people. The technique describes the layout of the android-based totally fall detection sensor device with a pulse value tracking unit. The device is capable of well- known a falling incident to the touch individual such that the incident may be said to the ambulance branch to the soonest possible, and to offer essential scientific remedies for the injured aged in a quick span of time. The layout and implementation integrate each hardware and software program that paintings seamlessly in detecting and reporting a fall at domestic and still have on brought normal monitoring device. So each 10 mins as soon as their region could be shared to the

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IoMT-based telemedicine monitoring machine for COVID patients
COVID-19 detection using convolutional neural networks from chest x-ray images
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An AI-powered IoMT model for continuous remote patient monitoring using COVID Early Warning Score (CoEWS)
Automatic intravenous fluid and health monitoring using an IoT system
Hygieia: Multipurpose healthcare assistance using the internet of things
Edge computing and artificial intelligence systems adopted in smart healthcare: A comprehensive survey in real-time COVID-19 pandemic
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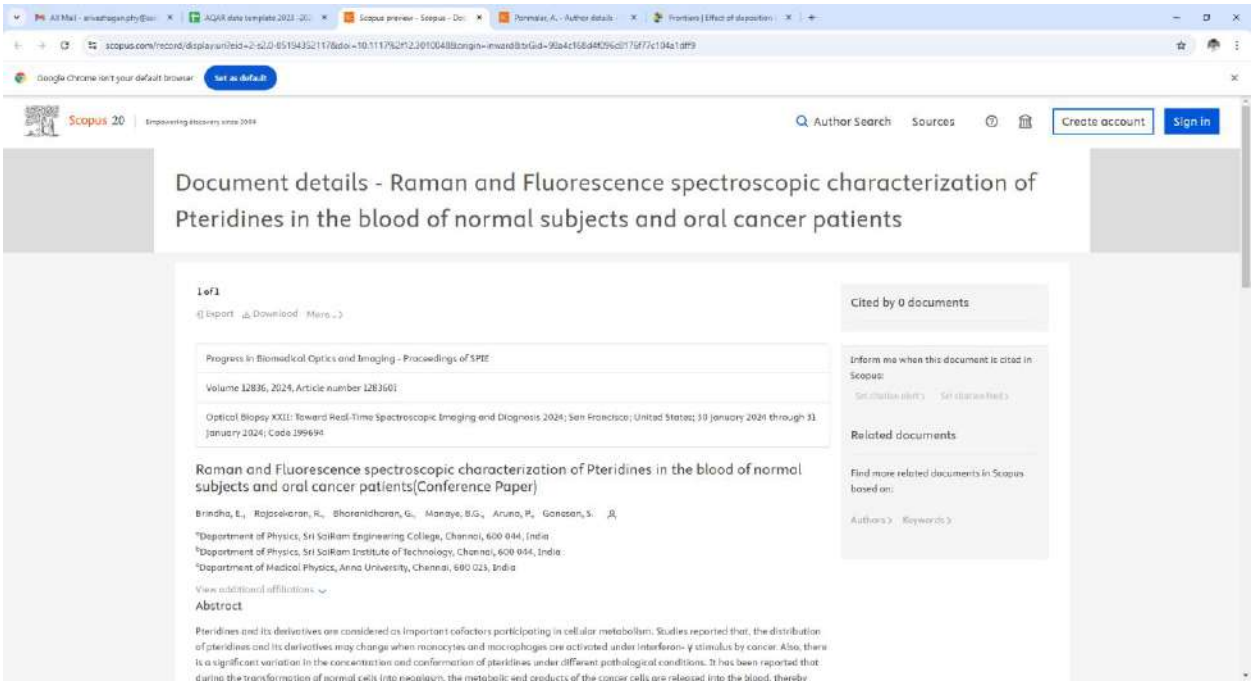

Document details - Raman and Fluorescence spectroscopic characterization of Pteridines in the blood of normal subjects and oral cancer patients

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Volume 12836, 2024, Article number 1283601

Optical Biopsy XXII: Toward Real-Time Spectroscopic Imaging and Diagnosis 2024; San Francisco; United States; 30 January 2024 through 31 January 2024; Code 199694

Raman and Fluorescence spectroscopic characterization of Pteridines in the blood of normal subjects and oral cancer patients(Conference Paper)

Brindha, E., Rajeskaran, R., Bhoranidharan, G., Manaye, B.G., Aruna, P., Ganesan, S.

[a]Department of Physics, Sri SaiRam Engineering College, Chennai, 600 044, India
[b]Department of Physics, Sri SaiRam Institute of Technology, Chennai, 600 044, India
[c]Department of Medical Physics, Anna University, Chennai, 600 025, India

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Abstract

Pteridines and its derivatives are considered as important cofactors participating in cellular metabolism. Studies reported that, the distribution of pteridines and its derivatives may change when monocytes and macrophages are activated under interferon- γ stimulus by cancer. Also, there is a significant variation in the concentration and conformation of pteridines under different pathological conditions. It has been reported that during the transformation of normal cells into neoplasm, the metabolic end products of the cancer cells are released into the blood, thereby

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Exploring Convolution Neural Networks for Image Classification in Medical Imaging(Conference Paper)
Vishwa Priya, V., Chottu, P., Sivasankari, K., Pisal, D.I., Ronuka Sai, B., Suganthi, D.
Vels Institute Science, Technology, and Advanced Studies, Department of Cs, Tamilnadu, Chennai, India
Ace Engineering College, India
Sri Sai Ram Institute of Technology, Department of Ece, Tamilnadu, Chennai, India
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Abstract
Modern healthcare relies on medical imaging to diagnose and cure diseases. Convolution Neural Networks (CNNs) have excelled at image categorization, and their use in medical imaging could change illness diagnosis. This study examines CNN's medical picture categorization performance. This study used X-rays, CT scans, MRIs, and histopathology slides. Traditional CNNs, transfer learning models, and bespoke
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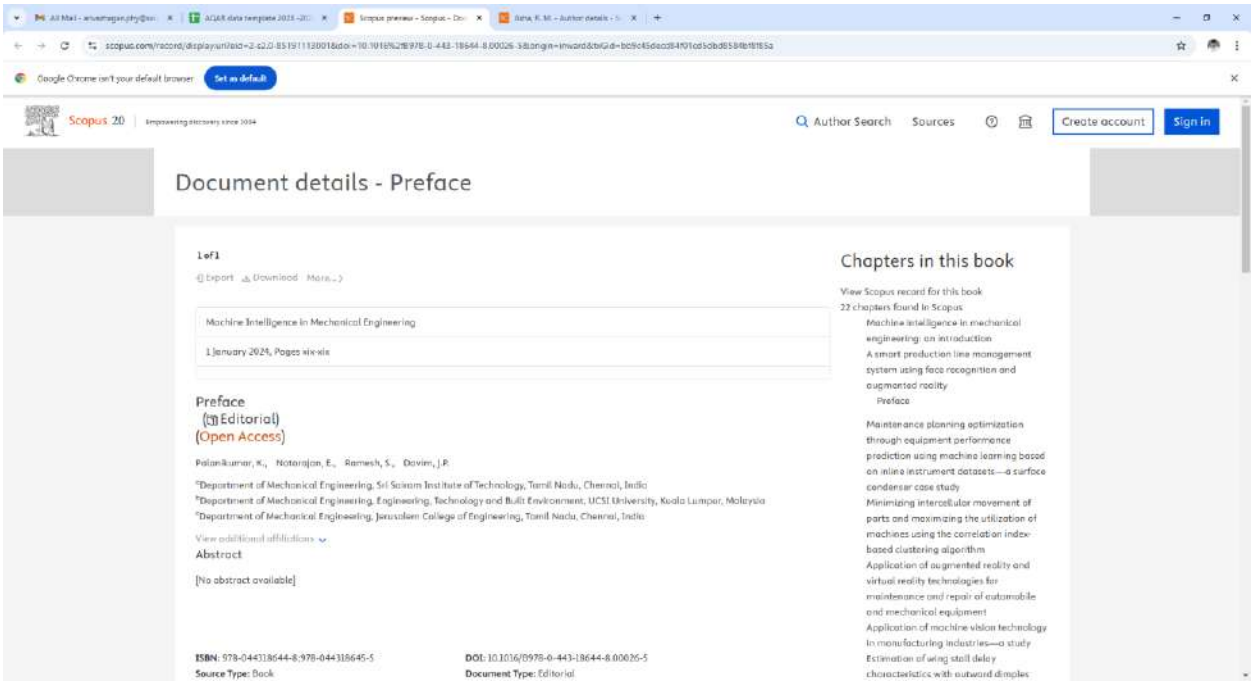
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Machine Intelligence in Mechanical Engineering
1 January 2024, Pages xix-xix
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(Editorial)
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Palanikumar, K., Natarajan, E., Ramesh, S., Davim, J.P.
Department of Mechanical Engineering, Sri Sairam Institute of Technology, Tamil Nadu, Chennai, India
Department of Mechanical Engineering, Engineering, Technology and Built Environment, UCSI University, Kuala Lumpur, Malaysia
Department of Mechanical Engineering, Jerusalem College of Engineering, Tamil Nadu, Chennai, India
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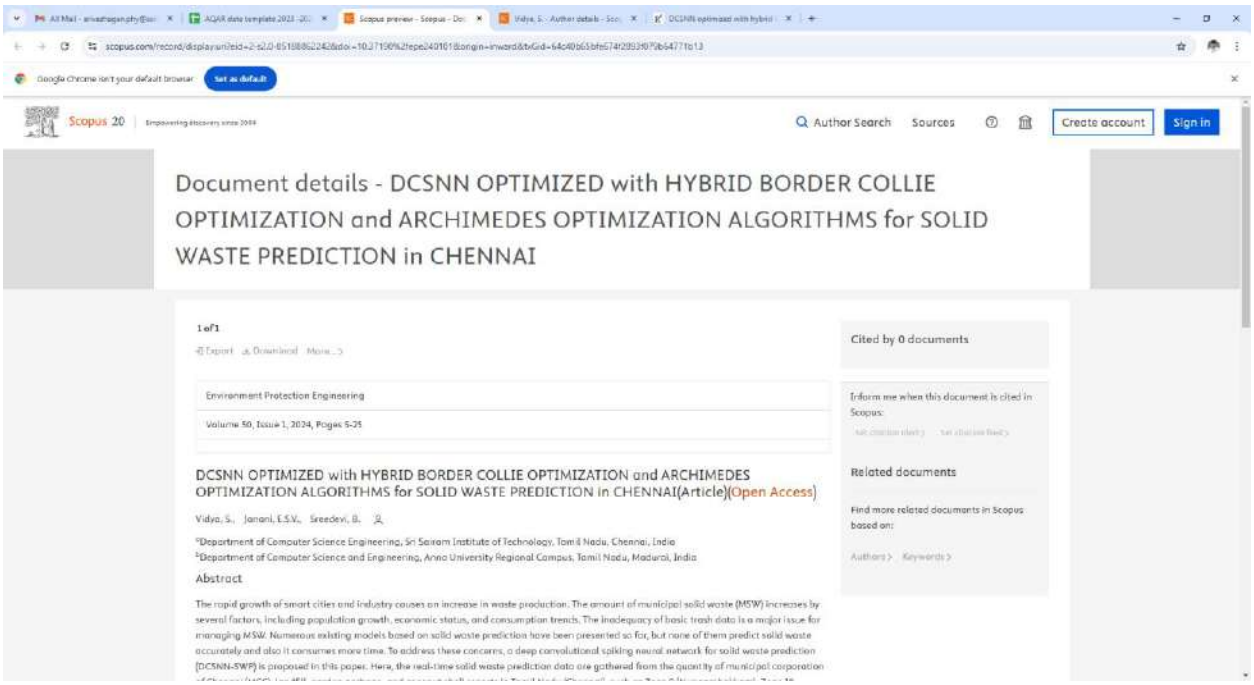

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Volume 50, Issue 1, 2024, Pages 5-25

DCSNN OPTIMIZED with HYBRID BORDER COLLIE OPTIMIZATION and ARCHIMEDES OPTIMIZATION ALGORITHMS for SOLID WASTE PREDICTION in CHENNAI(Article)(Open Access)

Vidya, S., Janani, E.S.V., Sreedevi, B.

[a]Department of Computer Science Engineering, Sri Sairam Institute of Technology, Tamil Nadu, Chennai, India
[b]Department of Computer Science and Engineering, Anna University Regional Campus, Tamil Nadu, Madurai, India

Abstract

The rapid growth of smart cities and industry causes an increase in waste production. The amount of municipal solid waste (MSW) increases by several factors, including population growth, economic status, and consumption trends. The inadequacy of basic trash data is a major issue for managing MSW. Numerous existing models based on solid waste prediction have been presented so far, but none of them predict solid waste accurately and also it consumes more time. To address these concerns, a deep convolutional spiking neural network for solid waste prediction (DCSNN-SWP) is proposed in this paper. Here, the real-time solid waste prediction data are gathered from the quantity of municipal corporation

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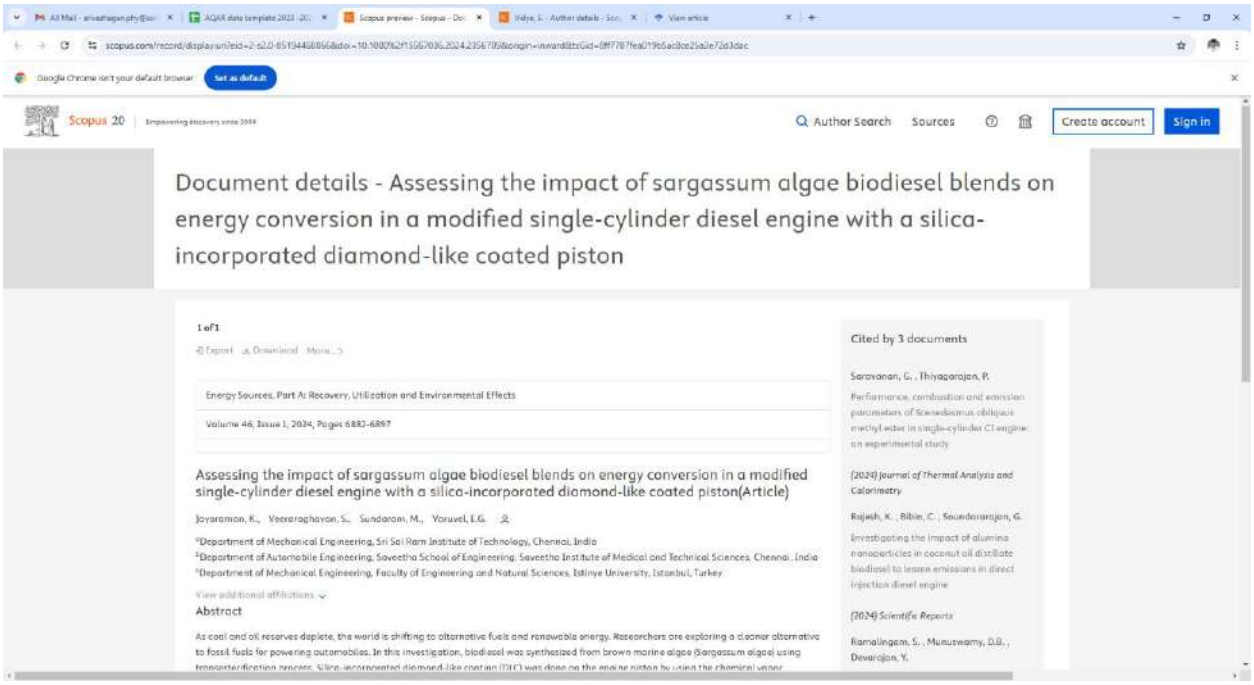

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Energy Sources, Part A: Recovery, Utilization and Environmental Effects

Volume 46, Issue 1, 2024, Pages 6882-6897

Assessing the impact of sargassum algae biodiesel blends on energy conversion in a modified single-cylinder diesel engine with a silica-incorporated diamond-like coated piston(Article)

Jayaraman, K., Veeraraghavan, S., Sundaram, M., Yoruvel, E.G.

[a]Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai, India
[b]Department of Automobile Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, India
[c]Department of Mechanical Engineering, Faculty of Engineering and Natural Sciences, Istinye University, Istanbul, Turkey

View additional affiliations

Abstract

As coal and oil reserves deplete, the world is shifting to alternative fuels and renewable energy. Researchers are exploring a cleaner alternative to fossil fuels for powering automobiles. In this investigation, biodiesel was synthesized from brown marine algae (Sargassum algae) using transesterification process. Silica-incorporated diamond-like coating (DLC) was done on the engine piston by using the chemical vapor

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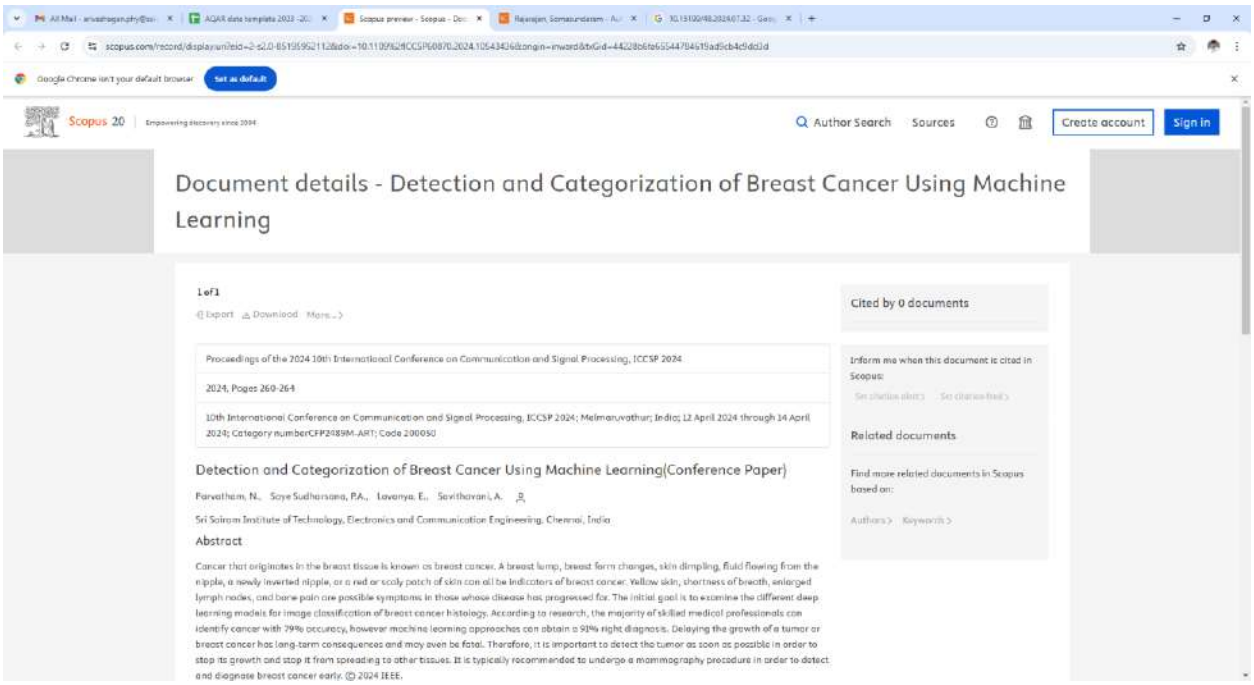
Performance, combustion and emission parameters of Scenedesmus obliquus methyl ester in single-cylinder CI engine: an experimental study
(2024) Journal of Thermal Analysis and Calorimetry

Rajesh, K., Bibin, C., Saundararajan, G.
Investigating the impact of alumina nanoparticles in coconut oil distillate biodiesel to lessen emissions in direct injection diesel engine
(2024) Scientific Reports

Ramalingam, S., Munuswamy, D.B., Devarajan, Y.



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10th International Conference on Communication and Signal Processing, ICCSP 2024; Melmaruvathur; India; 12 April 2024 through 14 April 2024; Category numberCFP24B9M-ART; Code 200050

Detection and Categorization of Breast Cancer Using Machine Learning(Conference Paper)

Parvatham, N., Soye Sudharsana, P.A., Lavanya, E., Sevithavani, A.

Sri Sairam Institute of Technology, Electronics and Communication Engineering, Chennai, India

Abstract

Cancer that originates in the breast tissue is known as breast cancer. A breast lump, breast form changes, skin dimpling, fluid flowing from the nipple, a newly inverted nipple, or a red or scaly patch of skin can all be indicators of breast cancer. Yellow skin, shortness of breath, enlarged lymph nodes, and bone pain are possible symptoms in those whose disease has progressed far. The initial goal is to examine the different deep learning models for image classification of breast cancer histology. According to research, the majority of skilled medical professionals can identify cancer with 79% accuracy, however machine learning approaches can obtain a 91% right diagnosis. Delaying the growth of a tumor or breast cancer has long-term consequences and may even be fatal. Therefore, it is important to detect the tumor as soon as possible in order to stop its growth and stop it from spreading to other tissues. It is typically recommended to undergo a mammography procedure in order to detect and diagnose breast cancer early. © 2024 IEEE.

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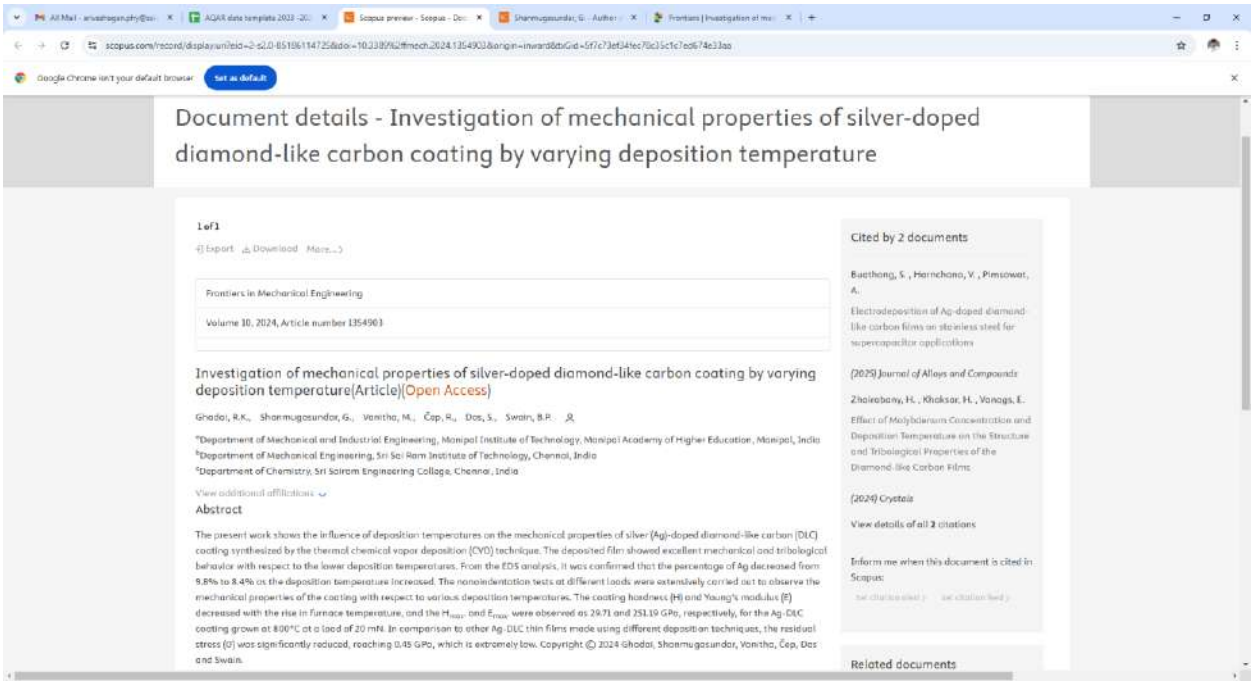

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Volume 10, 2024, Article number 1354903

Investigation of mechanical properties of silver-doped diamond-like carbon coating by varying deposition temperature(Article)(Open Access)

Ghadai, R.K., Shanmugasundar, G., Vanitha, M., Čep, R., Das, S., Swain, B.P.

[a]Department of Mechanical and Industrial Engineering, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India
[b]Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai, India
[c]Department of Chemistry, Sri Sairam Engineering College, Chennai, India

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Abstract

The present work shows the influence of deposition temperatures on the mechanical properties of silver (Ag)-doped diamond-like carbon (DLC) coating synthesized by the thermal chemical vapor deposition (CVD) technique. The deposited film showed excellent mechanical and tribological behavior with respect to the lower deposition temperatures. From the EDS analysis, it was confirmed that the percentage of Ag decreased from 9.8% to 8.4% as the deposition temperature increased. The nanoindentation tests at different loads were extensively carried out to observe the mechanical properties of the coating with respect to various deposition temperatures. The coating hardness (H) and Young's modulus (E) decreased with the rise in furnace temperature, and the H_{max} and E_{max} were observed as 29.71 and 251.19 GPa, respectively, for the Ag-DLC coating grown at 800 °C at a load of 20 mN. In comparison to other Ag-DLC thin films made using different deposition techniques, the residual stress (σ) was significantly reduced, reaching 0.45 GPa, which is extremely low. Copyright © 2024 Ghadai, Shanmugasundar, Vanitha, Čep, Das and Swain.

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Electrodeposition of Ag-doped diamond-like carbon films on stainless steel for supercapacitor applications
(2025) Journal of Alloys and Compounds

Zhalebany, H., Khaksar, H., Vanags, E.
Effect of Molybdenum Concentration and Deposition Temperature on the Structure and Tribological Properties of the Diamond-like Carbon Films
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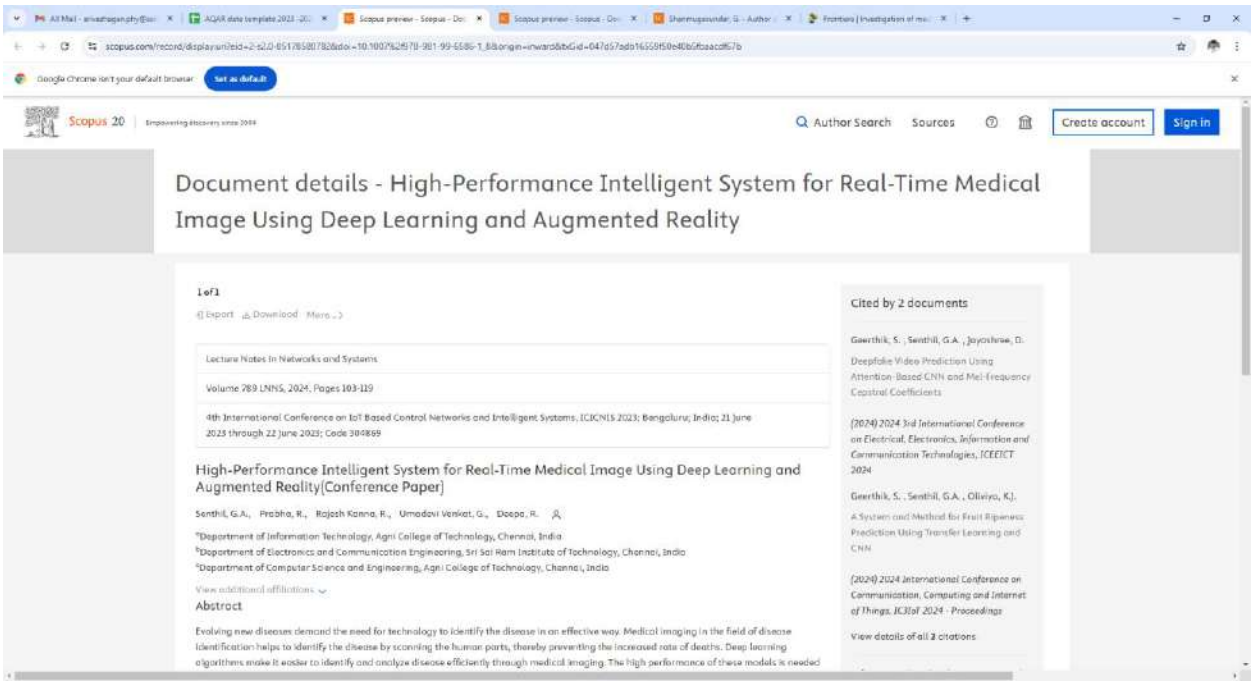
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High-Performance Intelligent System for Real-Time Medical Image Using Deep Learning and Augmented Reality(Conference Paper)
Senthil, G.A., Prabha, R., Rajesh Kanna, R., Umadevi Venkat, G., Deepa, R.
Department of Information Technology, Agni College of Technology, Chennai, India
Department of Electronics and Communication Engineering, Sri Sai Ram Institute of Technology, Chennai, India
Department of Computer Science and Engineering, Agni College of Technology, Chennai, India
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Abstract
Evolving new diseases demand the need for technology to identify the disease in an effective way. Medical imaging in the field of disease identification helps to identify the disease by scanning the human parts, thereby preventing the increased rate of deaths. Deep learning algorithms make it easier to identify and analyze disease efficiently through medical imaging. The high performance of these models is needed
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Geerthik, S. ; Senthil, G.A. ; Oliviya, K.J.
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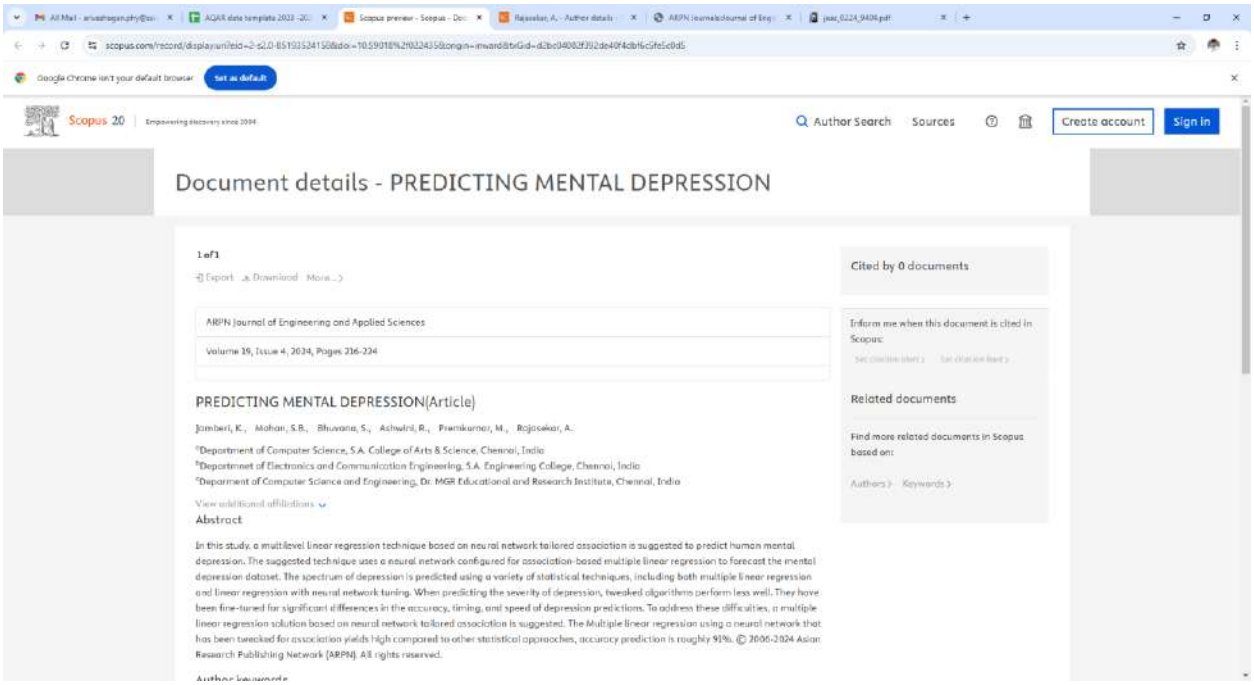
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PREDICTING MENTAL DEPRESSION(Article)
Jamberi, K., Mohan, S.B., Bhuvana, S., Ashwini, R., Premkumar, M., Rajasekar, A.
Department of Computer Science, S.A. College of Arts & Science, Chennai, India
Department of Electronics and Communication Engineering, S.A. Engineering College, Chennai, India
Department of Computer Science and Engineering, Dr. MGR Educational and Research Institute, Chennai, India
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Abstract
In this study, a multilevel linear regression technique based on neural network tailored association is suggested to predict human mental depression. The suggested technique uses a neural network configured for association-based multiple linear regression to forecast the mental depression dataset. The spectrum of depression is predicted using a variety of statistical techniques, including both multiple linear regression and linear regression with neural network tuning. When predicting the severity of depression, tweaked algorithms perform less well. They have been fine-tuned for significant differences in the accuracy, timing, and speed of depression predictions. To address these difficulties, a multiple linear regression solution based on neural network tailored association is suggested. The Multiple linear regression using a neural network that has been tweaked for association yields high compared to other statistical approaches, accuracy prediction is roughly 91%. © 2006-2024 Asian Research Publishing Network (ARPN). All rights reserved.
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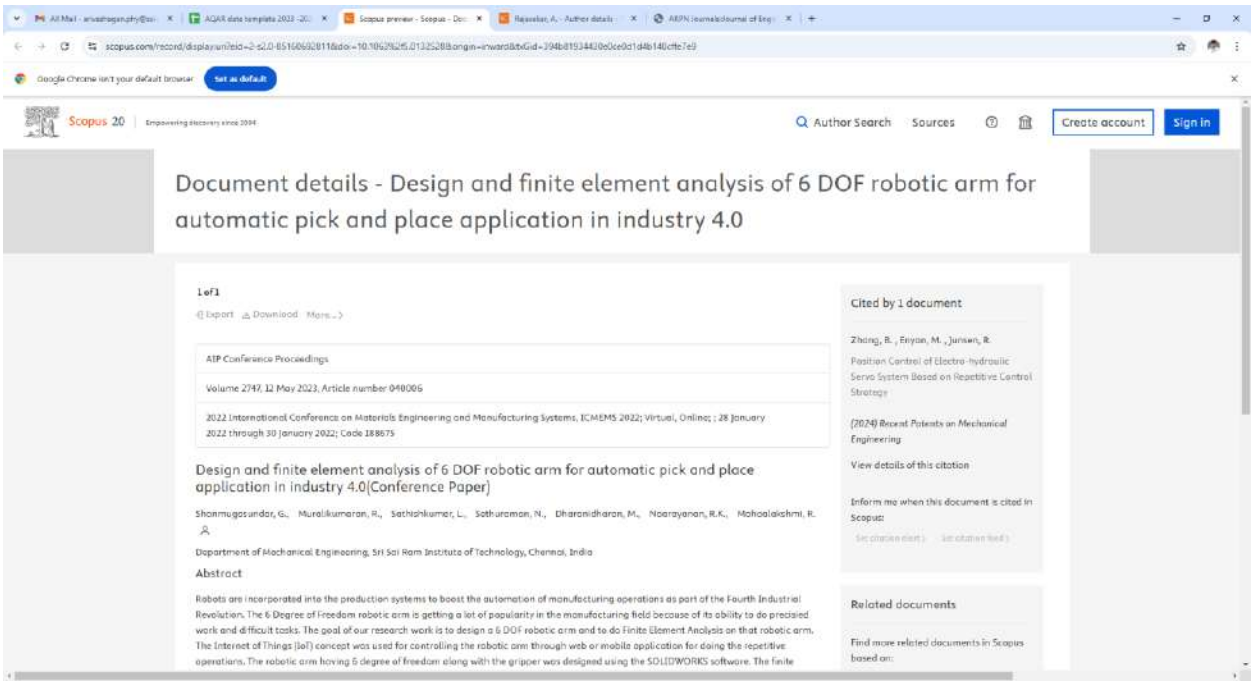
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Design and finite element analysis of 6 DOF robotic arm for automatic pick and place application in industry 4.0(Conference Paper)
Shanmugasundar, G., Muralikumaran, R., Sathishkumar, L., Sathuraman, N., Dharanidharan, M., Narayanan, R.K., Mohanlakshmi, R.
Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai, India
Abstract
Robots are incorporated into the production systems to boost the automation of manufacturing operations as part of the Fourth Industrial Revolution. The 6 Degree of Freedom robotic arm is getting a lot of popularity in the manufacturing field because of its ability to do precised work and difficult tasks. The goal of our research work is to design a 6 DOF robotic arm and to do Finite Element Analysis on that robotic arm. The Internet of Things (IoT) concept was used for controlling the robotic arm through web or mobile application for doing the repetitive operations. The robotic arm having 6 degree of freedom along with the gripper was designed using the SOLIDWORKS software. The finite
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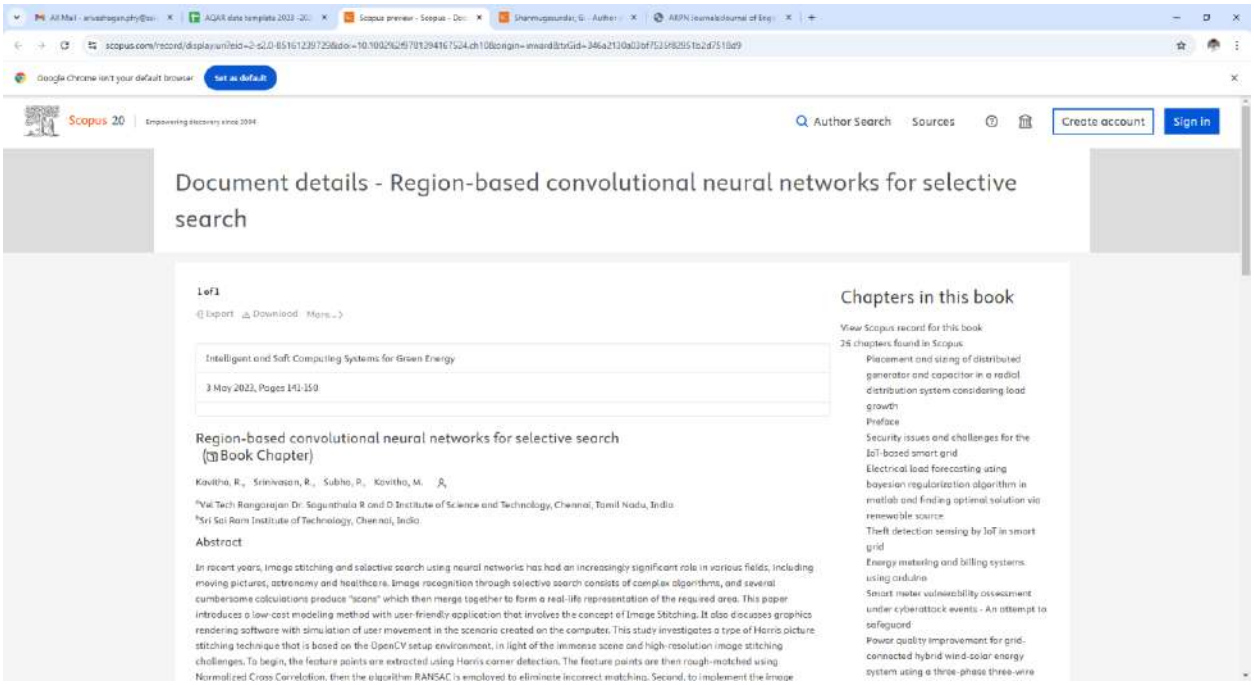
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3 May 2023, Pages 141-150
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Kavitha, R., Srinivasan, R., Subha, P., Kavitha, M.
[a]Vel Tech Rangarajan Dr. Sagunthala R and D Institute of Science and Technology, Chennai, Tamil Nadu, India
[b]Sri Sai Ram Institute of Technology, Chennai, India
Abstract
In recent years, image stitching and selective search using neural networks has had an increasingly significant role in various fields, including moving pictures, astronomy and healthcare. Image recognition through selective search consists of complex algorithms, and several cumbersome calculations produce "scans" which then merge together to form a real-life representation of the required area. This paper introduces a low-cost modeling method with user-friendly application that involves the concept of Image Stitching. It also discusses graphics rendering software with simulation of user movement in the scenario created on the computer. This study investigates a type of Harris picture stitching technique that is based on the OpenCV setup environment, in light of the immense scene and high-resolution image stitching challenges. To begin, the feature points are extracted using Harris corner detection. The feature points are then rough-matched using Normalized Cross Correlation, then the algorithm RANSAC is employed to eliminate incorrect matching. Second, to implement the image
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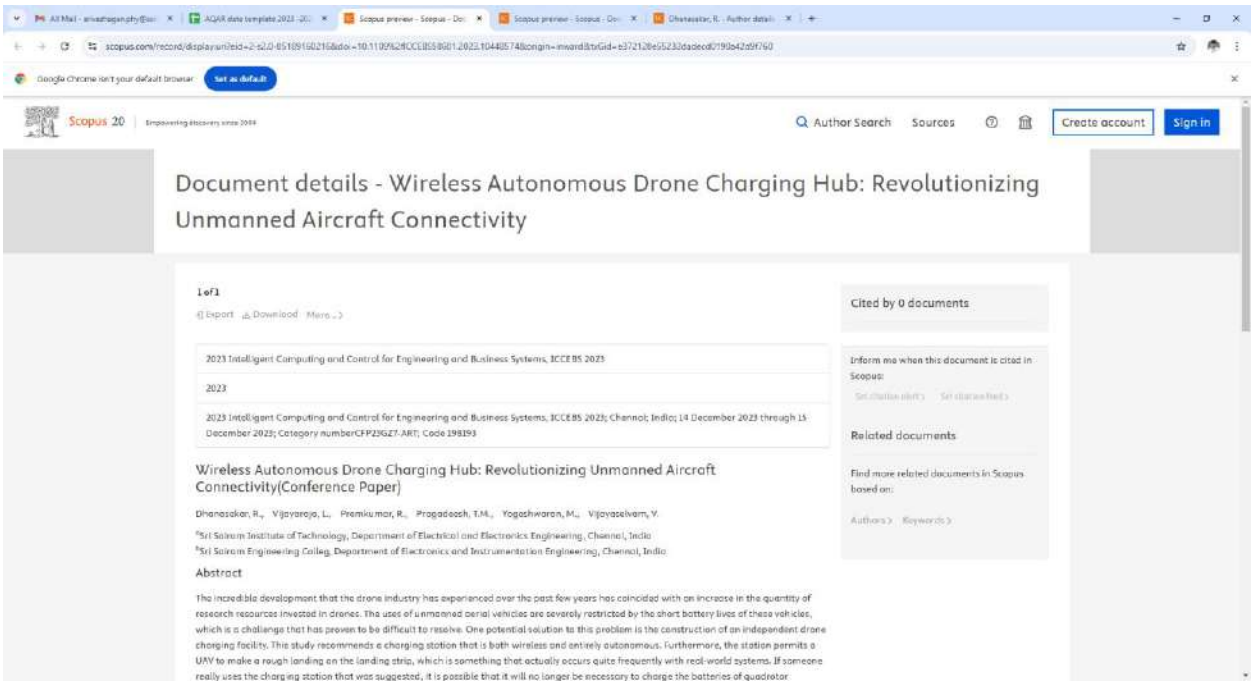
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Wireless Autonomous Drone Charging Hub: Revolutionizing Unmanned Aircraft Connectivity(Conference Paper)
Dhanasekar, R., Vijayaraja, L., Premkumar, R., Pragadeesh, T.M., Yogeshwaran, M., Vijayaselvam, V.
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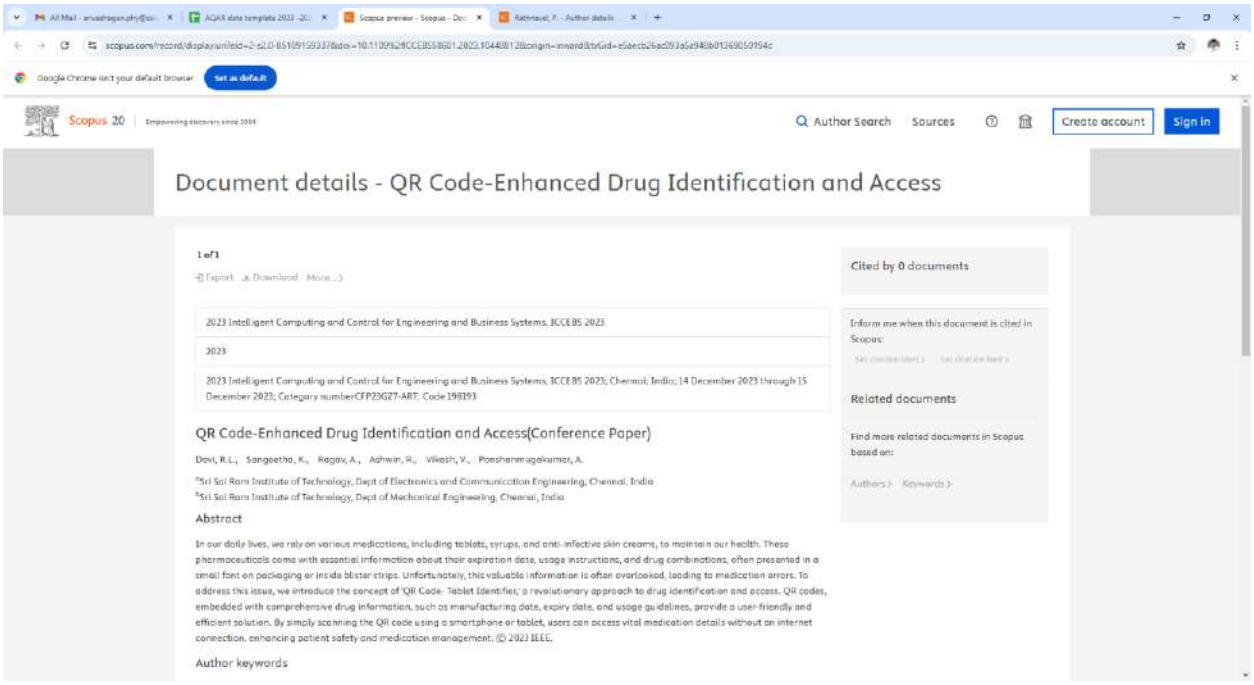
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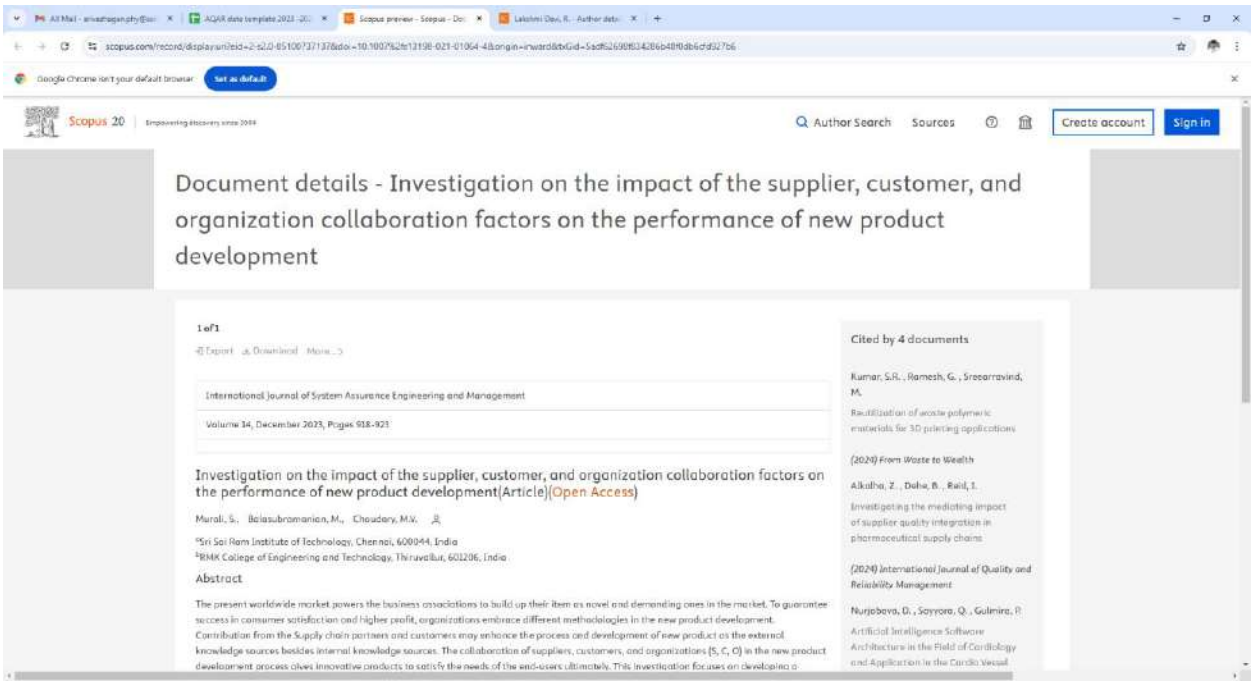

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Volume 14, December 2023, Pages 918-921

Investigation on the impact of the supplier, customer, and organization collaboration factors on the performance of new product development(Article)(Open Access)

Murali, S., Balasubramanian, M., Choudary, M.V.

[a]Sri Sai Ram Institute of Technology, Chennai, 600044, India
[b]RMK College of Engineering and Technology, Thiruvallur, 601206, India

Abstract

The present worldwide market powers the business associations to build up their item as novel and demanding ones in the market. To guarantee success in consumer satisfaction and higher profit, organizations embrace different methodologies in the new product development. Contribution from the Supply chain partners and customers may enhance the process and development of new product as the external knowledge sources besides internal knowledge sources. The collaboration of suppliers, customers, and organizations (S, C, O) in the new product development process gives innovative products to satisfy the needs of the end-users ultimately. This investigation focuses on developing a

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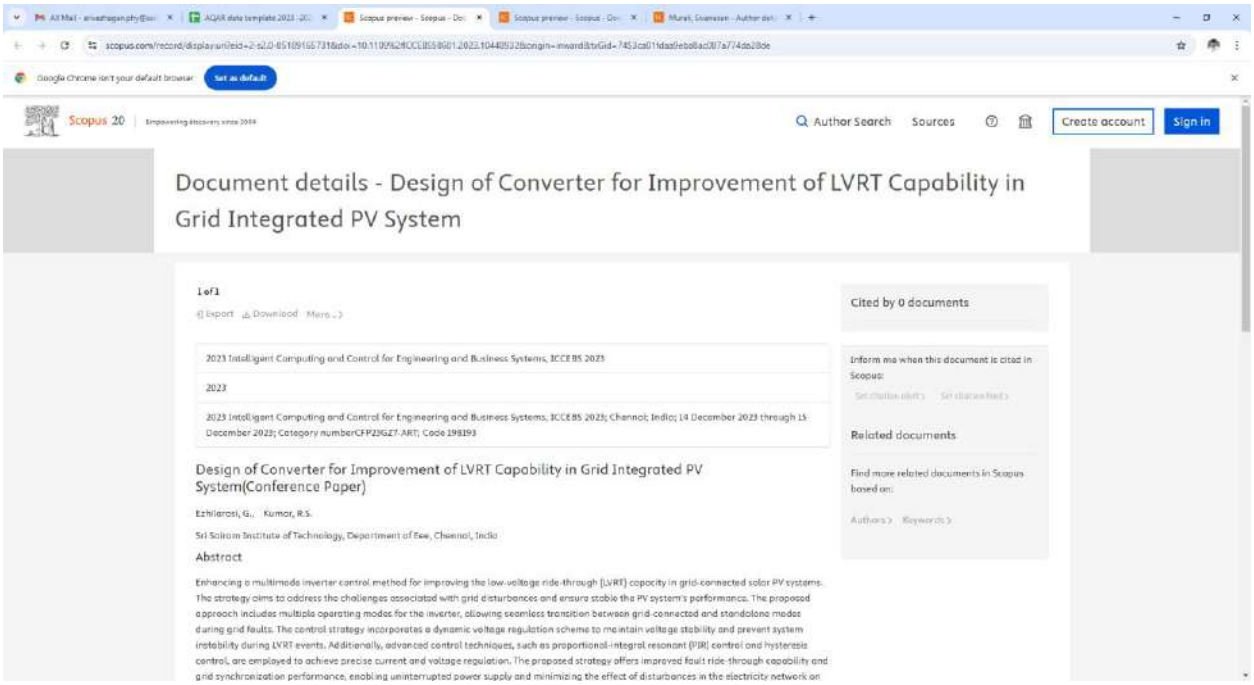

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Design of Converter for Improvement of LVRT Capability in Grid Integrated PV System(Conference Paper)

Ezhilarasi, G., Kumar, R.S.

Sri Sairam Institute of Technology, Department of Eee, Chennai, India

Abstract

Enhancing a multimode inverter control method for improving the low-voltage ride-through (LVRT) capacity in grid-connected solar PV systems. The strategy aims to address the challenges associated with grid disturbances and ensure stable the PV system's performance. The proposed approach includes multiple operating modes for the inverter, allowing seamless transition between grid-connected and standalone modes during grid faults. The control strategy incorporates a dynamic voltage regulation scheme to maintain voltage stability and prevent system instability during LVRT events. Additionally, advanced control techniques, such as proportional-integral resonant (PIR) control and hysteresis control, are employed to achieve precise current and voltage regulation. The proposed strategy offers improved fault ride-through capability and grid synchronization performance, enabling uninterrupted power supply and minimizing the effect of disturbances in the electricity network on

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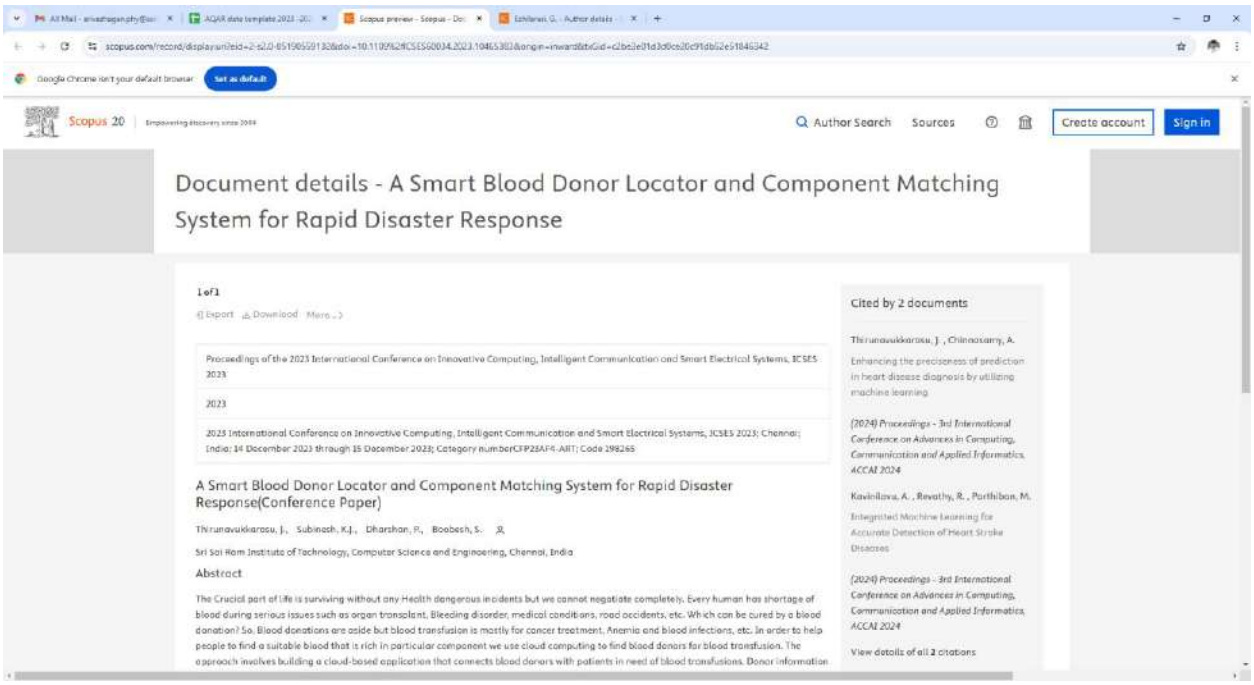
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A Smart Blood Donor Locator and Component Matching System for Rapid Disaster Response(Conference Paper)
Thirunavukkarasu, J., Subinash, K.J., Dharshan, P., Boobesh, S.
Sri Sai Ram Institute of Technology, Computer Science and Engineering, Chennai, India
Abstract
The Crucial part of life is surviving without any Health dangerous incidents but we cannot negotiate completely. Every human has shortage of blood during serious issues such as organ transplant, Bleeding disorder, medical conditions, road accidents, etc. Which can be cured by a blood donation? So, Blood donations are aside but blood transfusion is mostly for cancer treatment, Anemia and blood infections, etc. In order to help people to find a suitable blood that is rich in particular component we use cloud computing to find blood donors for blood transfusion. The approach involves building a cloud-based application that connects blood donors with patients in need of blood transfusions. Donor information
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Integrated Machine Learning for Accurate Detection of Heart Stroke Diseases
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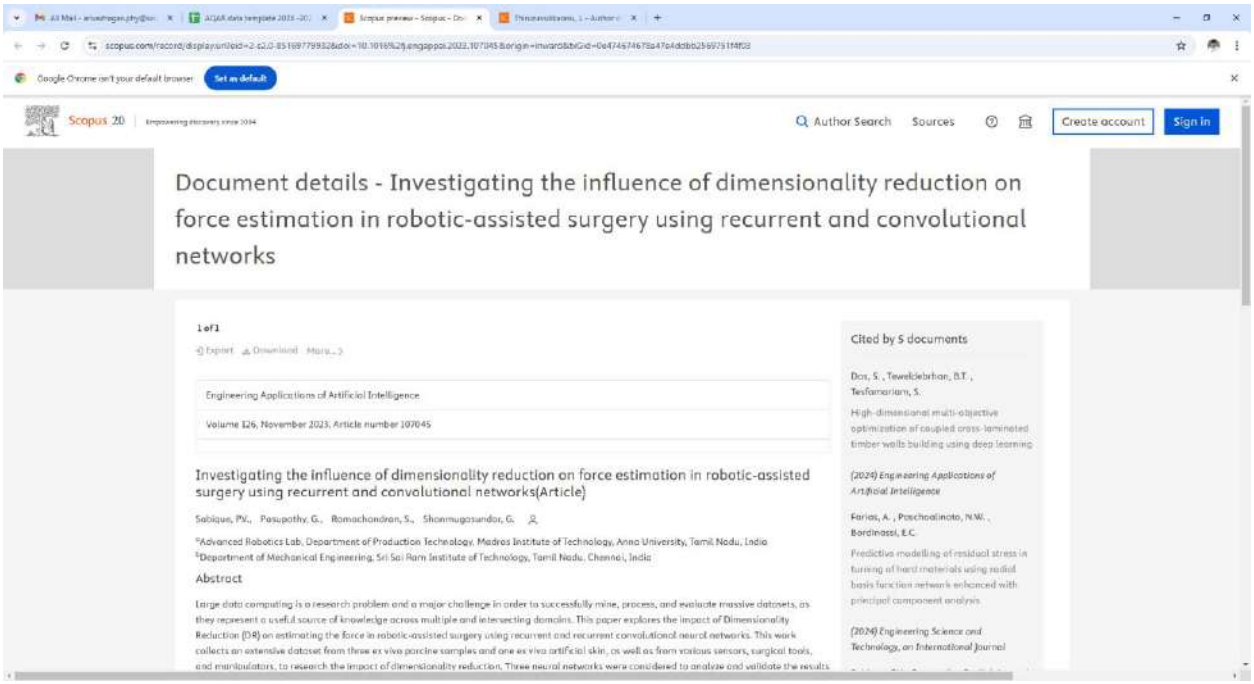
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Volume 126, November 2023, Article number 107045
Investigating the influence of dimensionality reduction on force estimation in robotic-assisted surgery using recurrent and convolutional networks(Article)
Sabique, P.V., Pasupathy, G., Romachandran, S., Shanmugasundar, G.
[a]Advanced Robotics Lab, Department of Production Technology, Madras Institute of Technology, Anna University, Tamil Nadu, India
[b]Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Tamil Nadu, Chennai, India
Abstract
Large data computing is a research problem and a major challenge in order to successfully mine, process, and evaluate massive datasets, as they represent a useful source of knowledge across multiple and intersecting domains. This paper explores the impact of Dimensionality Reduction (DR) on estimating the force in robotic-assisted surgery using recurrent and recurrent convolutional neural networks. This work collects an extensive dataset from three ex vivo porcine samples and one ex vivo artificial skin, as well as from various sensors, surgical tools, and manipulators, to research the impact of dimensionality reduction. Three neural networks were considered to analyze and validate the results
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Improving accuracy of medical data handling and processing using DCAF for IoT-based healthcare scenarios(Article)
Pethuraj, M.S., Burhanuddin, M.A., Brindha Devi, V.
[a]Faculty of Information & Communication Technology, Universiti Teknikal Malaysia Melaka, Durian Tunggal, Melaka, Malaysia
[b]Professor & Head / IT, Sri Sai Ram Institute of Technology, West Tambaram, Chennai, 600044, India
Abstract
The Internet of Things (IoT), uses communication technologies and intelligent computing to improve data analysis and computation accuracy, which is essential to the healthcare industry. The sensitivity and requirement for precision in managing and processing medical data make it a difficult task for diagnosing patients. To handle medical data in a healthcare scenario based on the IoT, a Data Classification and Analysis Framework (DCAF) is proposed in this research. The proposed framework seeks to improve the precision and dependability of handling and processing medical data, which are essential components of biomedical signal processing. By reducing errors and accelerating the processing of medical data, the framework can help in improving the accuracy of medical diagnosis and therapy, which is a key objective of biomedical signal processing and control. The goal of this framework is to increase the reliability of message delivery by concentrating on data classification and
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Evaluation of the Descriptive Data Analysis and Statistical Analysis of Vitiligo Among the Patients Attending Opd and Ipd in Gsmc, Palayamkottai.(Conference Paper)
Lazha, A., Nandhini, E., Roopa, D., Hazel, S.S.J., Joshua, S.D.J., Mathukumar, S.
[a]Sri Sairam Siddha Medical College and Research Centre, Chennai, 44, India
[b]Sri Sairam Institute of Technology, Chennai, 44, India
[c]Thiyagarajar College of Engineering, Madurai, India
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Abstract
Skin disorders can have different symptoms and levels of severity some have occupational or psychological causes, some may be inherited, and it
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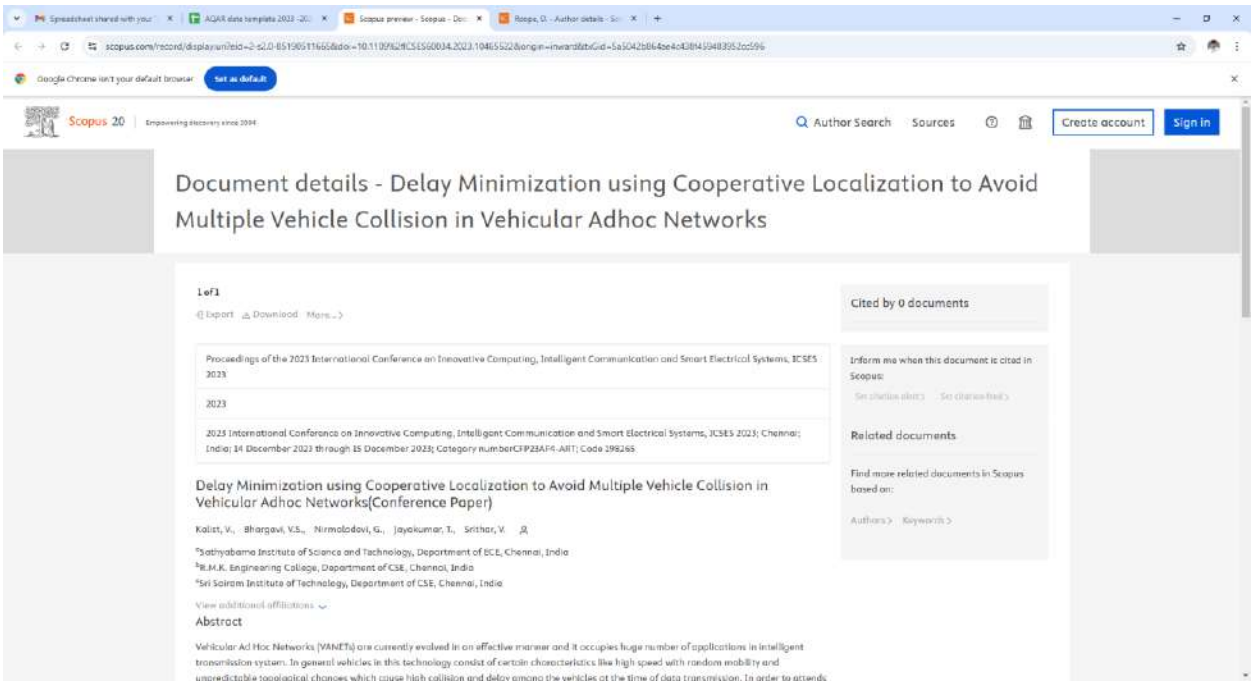
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Delay Minimization using Cooperative Localization to Avoid Multiple Vehicle Collision in Vehicular Adhoc Networks(Conference Paper)
Kalist, V., Bhargavi, V.S., Nirmaladevi, G., Jayakumar, T., Srithar, V.
[a]Sathyabama Institute of Science and Technology, Department of ECE, Chennai, India
[b]R.M.K. Engineering College, Department of CSE, Chennai, India
[c]Sri Sairam Institute of Technology, Department of CSE, Chennai, India
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Abstract
Vehicular Ad Hoc Networks (VANETs) are currently evolved in an effective manner and it occupies huge number of applications in intelligent transmission system. In general vehicles in this technology consist of certain characteristics like high speed with random mobility and unpredictable topological changes which cause high collision and delay among the vehicles at the time of data transmission. In order to attends
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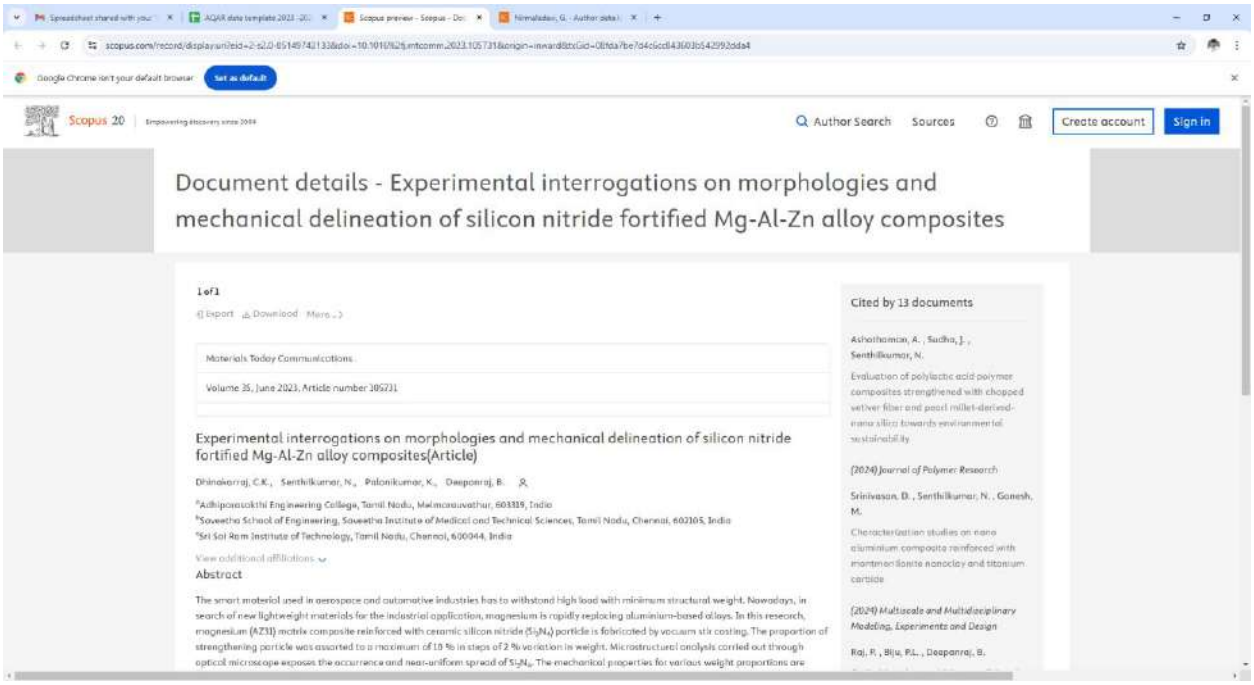
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Experimental interrogations on morphologies and mechanical delineation of silicon nitride fortified Mg-Al-Zn alloy composites(Article)
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[a]Adhiparasakthi Engineering College, Tamil Nadu, Melmaruvathur, 603319, India
[b]Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Tamil Nadu, Chennai, 602105, India
[c]Sri Sai Ram Institute of Technology, Tamil Nadu, Chennai, 600044, India
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Abstract
The smart material used in aerospace and automotive industries has to withstand high load with minimum structural weight. Nowadays, in search of new lightweight materials for the industrial application, magnesium is rapidly replacing aluminium-based alloys. In this research, magnesium (AZ31) matrix composite reinforced with ceramic silicon nitride (Si_3N_4) particle is fabricated by vacuum stir casting. The proportion of strengthening particle was asserted to a maximum of 10 % in steps of 2 % variation in weight. Microstructural analysis carried out through optical microscope exposes the occurrence and near-uniform spread of Si_3N_4. The mechanical properties for various weight proportions are
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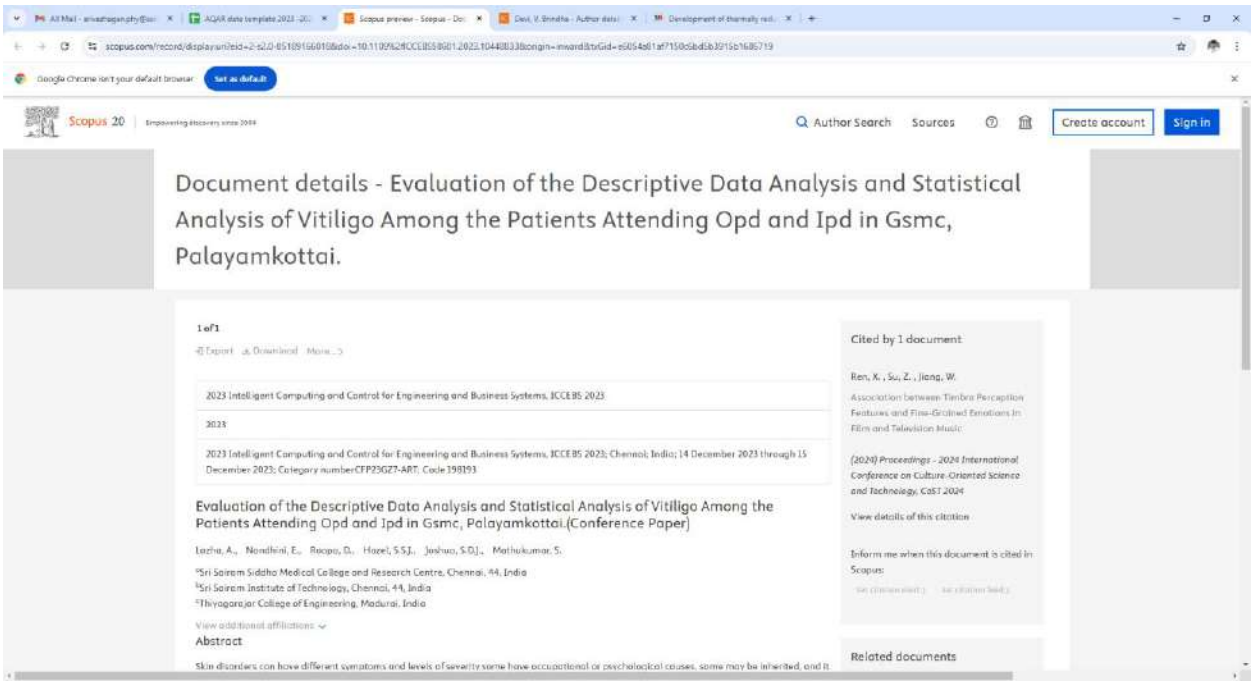
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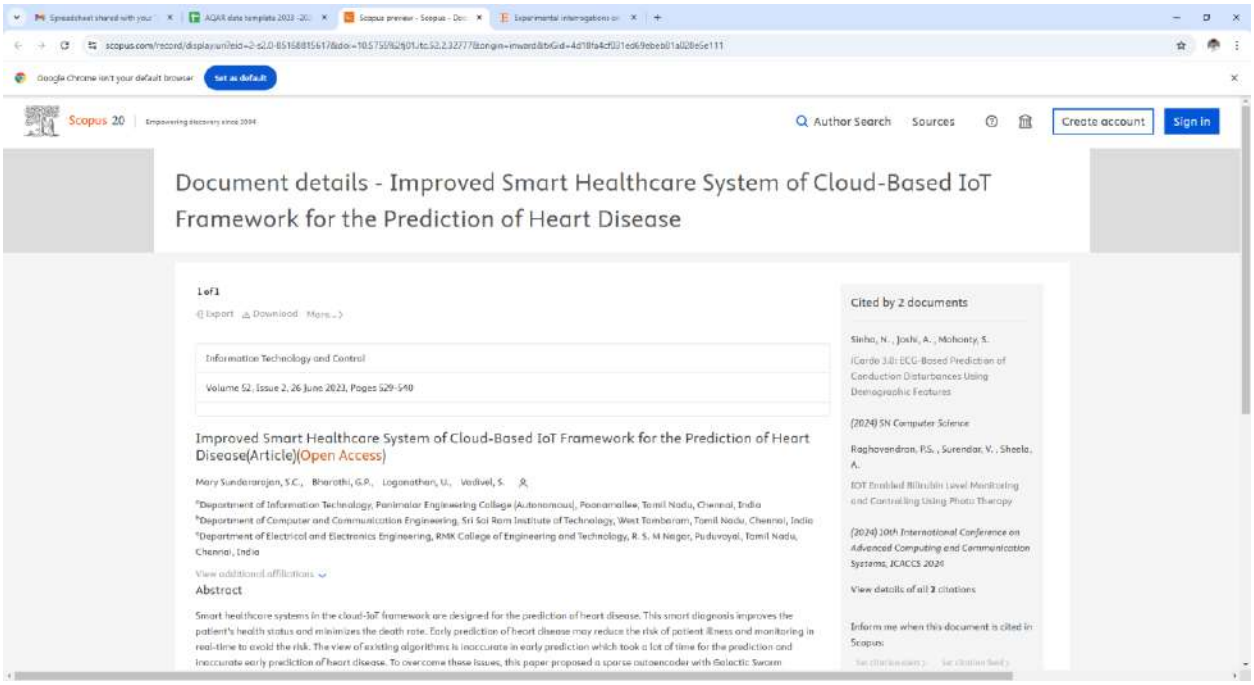
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Department of Information Technology, Panimalar Engineering College (Autonomous), Poonamallee, Tamil Nadu, Chennai, India
Department of Computer and Communication Engineering, Sri Sai Ram Institute of Technology, West Tambaram, Tamil Nadu, Chennai, India
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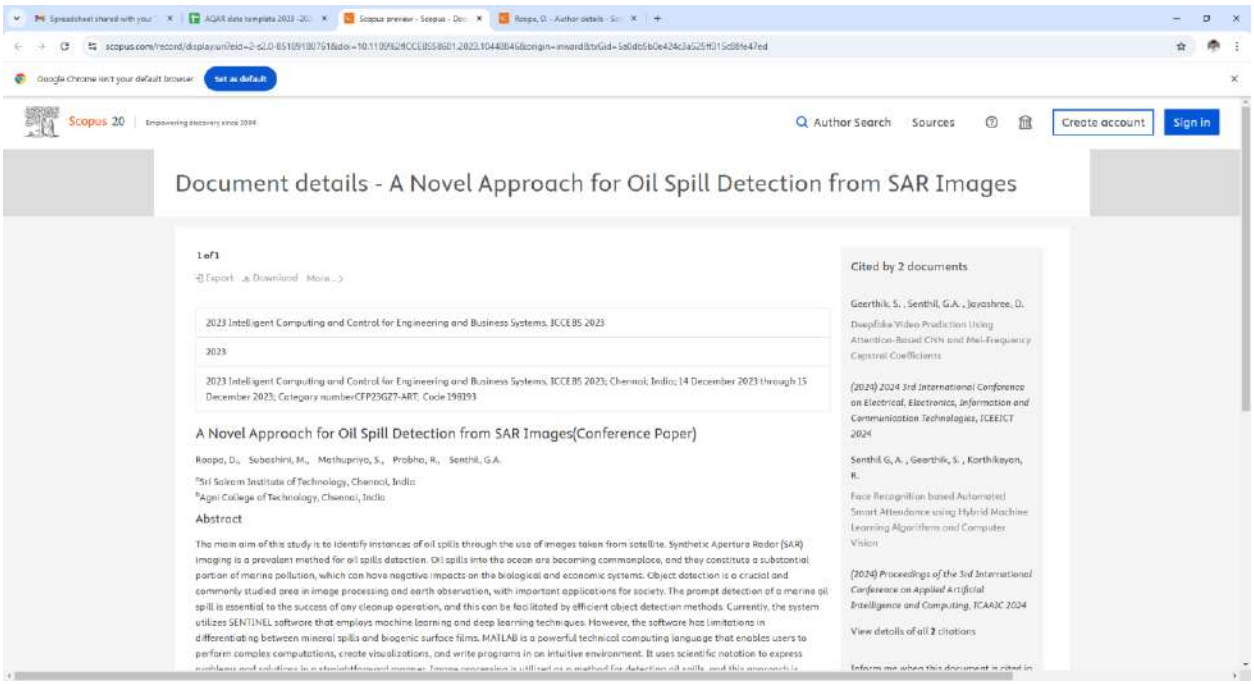
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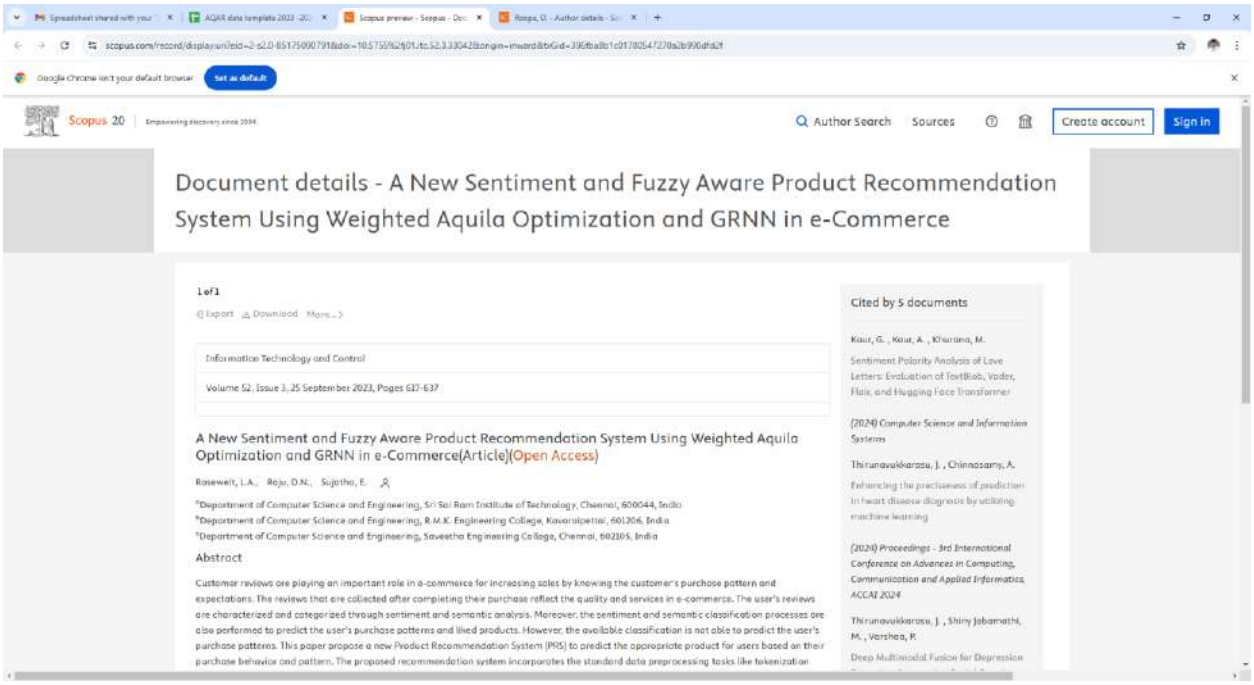
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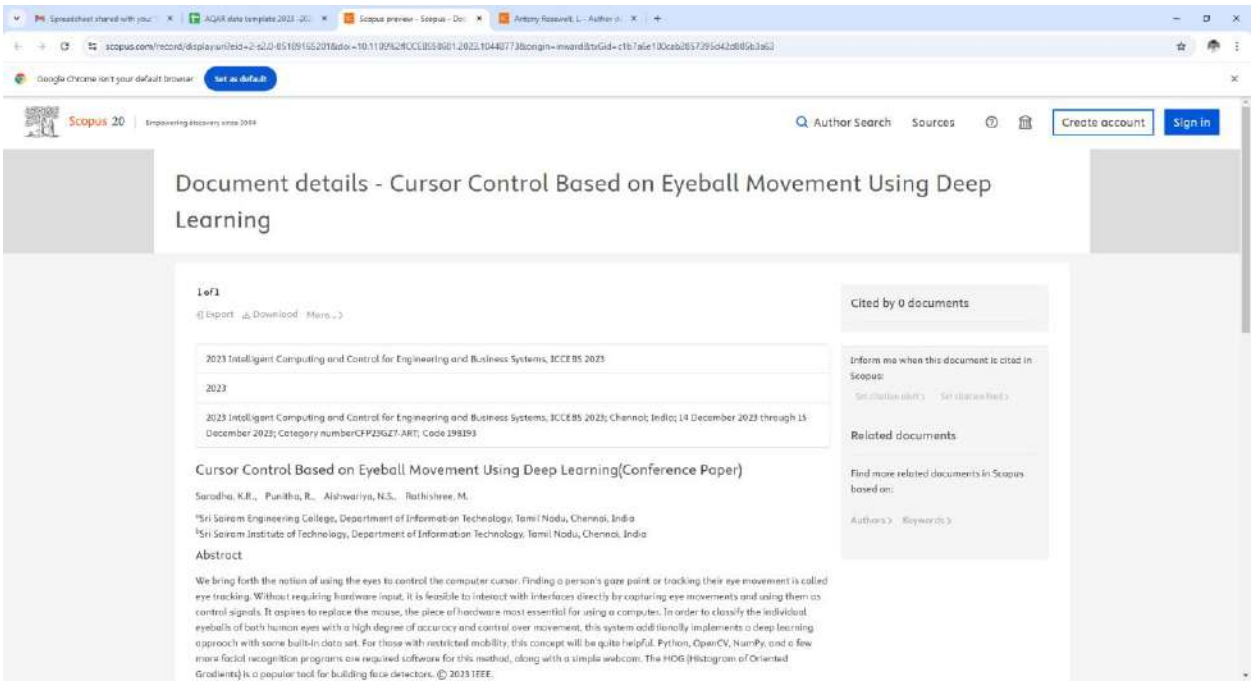
Deep Multimodal Fusion for Depression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Cursor Control Based on Eyeball Movement Using Deep Learning(Conference Paper)
Sarodha, K.R., Punitha, R., Aishwariya, N.S., Rathishree, M.
[a]Sri Sairam Engineering College, Department of Information Technology, Tamil Nadu, Chennai, India
[b]Sri Sairam Institute of Technology, Department of Information Technology, Tamil Nadu, Chennai, India
Abstract
We bring forth the notion of using the eyes to control the computer cursor. Finding a person's gaze point or tracking their eye movement is called eye tracking. Without requiring hardware input, it is feasible to interact with interfaces directly by capturing eye movements and using them as control signals. It aspires to replace the mouse, the piece of hardware most essential for using a computer. In order to classify the individual eyeballs of both human eyes with a high degree of accuracy and control over movement, this system additionally implements a deep learning approach with some built-in data set. For those with restricted mobility, this concept will be quite helpful. Python, OpenCV, NumPy, and a few more facial recognition programs are required software for this method, along with a simple webcam. The HOG (Histogram of Oriented Gradients) is a popular tool for building face detectors. © 2023 IEEE.
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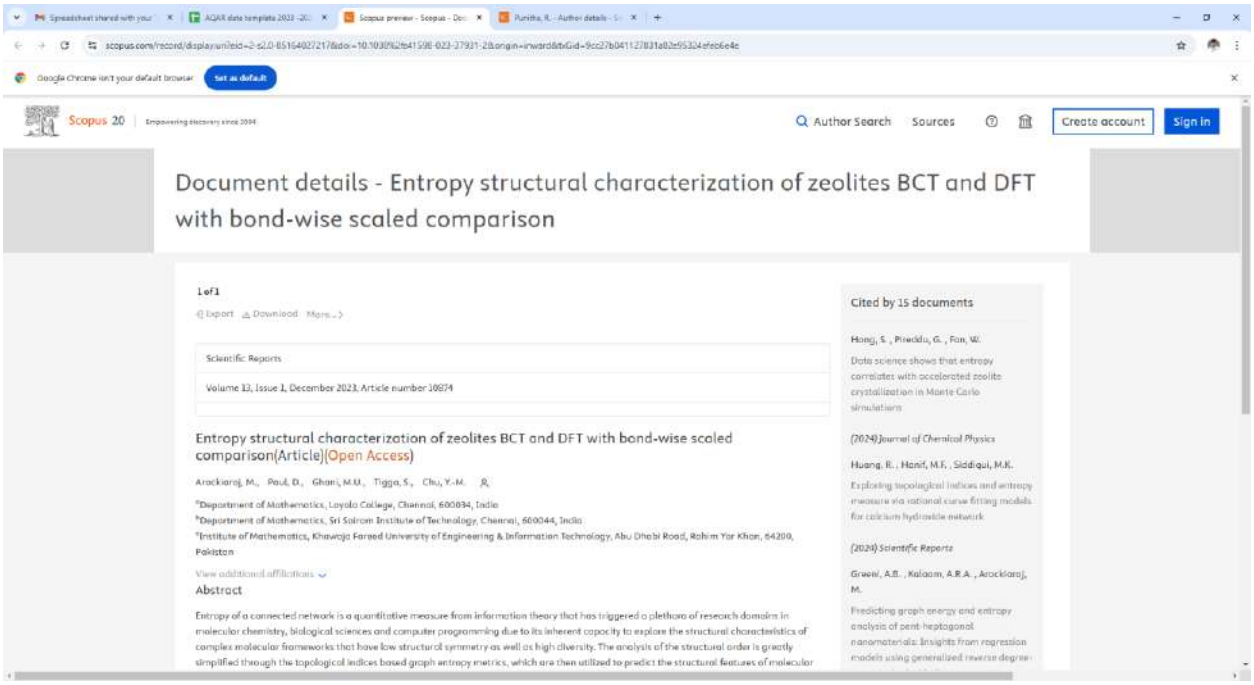
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Entropy structural characterization of zeolites BCT and DFT with bond-wise scaled comparison(Article)(Open Access)
Arockiaraj, M., Paul, D., Ghani, M.U., Tigga, S., Chu, Y.-M.
[a]Department of Mathematics, Loyola College, Chennai, 600034, India
[b]Department of Mathematics, Sri Sairam Institute of Technology, Chennai, 600044, India
[c]Institute of Mathematics, Khawaja Fareed University of Engineering & Information Technology, Abu Dhabi Road, Rahim Yar Khan, 64200, Pakistan
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Abstract
Entropy of a connected network is a quantitative measure from information theory that has triggered a plethora of research domains in molecular chemistry, biological sciences and computer programming due to its inherent capacity to explore the structural characteristics of complex molecular frameworks that have low structural symmetry as well as high diversity. The analysis of the structural order is greatly simplified through the topological indices based graph entropy metrics, which are then utilized to predict the structural features of molecular
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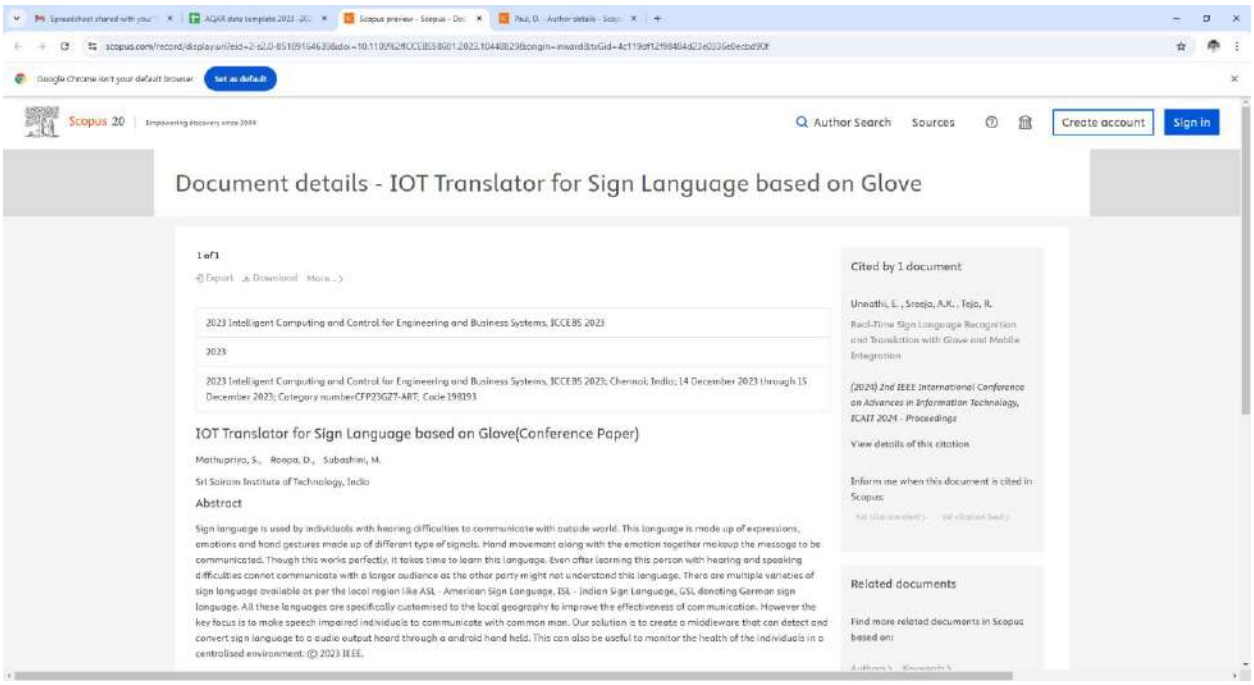
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IOT Translator for Sign Language based on Glove(Conference Paper)
Mathupriya, S., Roopa, D., Subashini, M.
Sri Sairam Institute of Technology, India
Abstract
Sign language is used by individuals with hearing difficulties to communicate with outside world. This language is made up of expressions, emotions and hand gestures made up of different type of signals. Hand movement along with the emotion together makeup the message to be communicated. Though this works perfectly, it takes time to learn this language. Even after learning this person with hearing and speaking difficulties cannot communicate with a larger audience as the other party might not understand this language. There are multiple varieties of sign language available as per the local region like ASL - American Sign Language, ISL - Indian Sign Language, GSL denoting German sign language. All these languages are specifically customised to the local geography to improve the effectiveness of communication. However the key focus is to make speech impaired individuals to communicate with common man. Our solution is to create a middleware that can detect and convert sign language to a audio output heard through a android hand held. This can also be useful to monitor the health of the individuals in a controlled environment. © 2023 IEEE.
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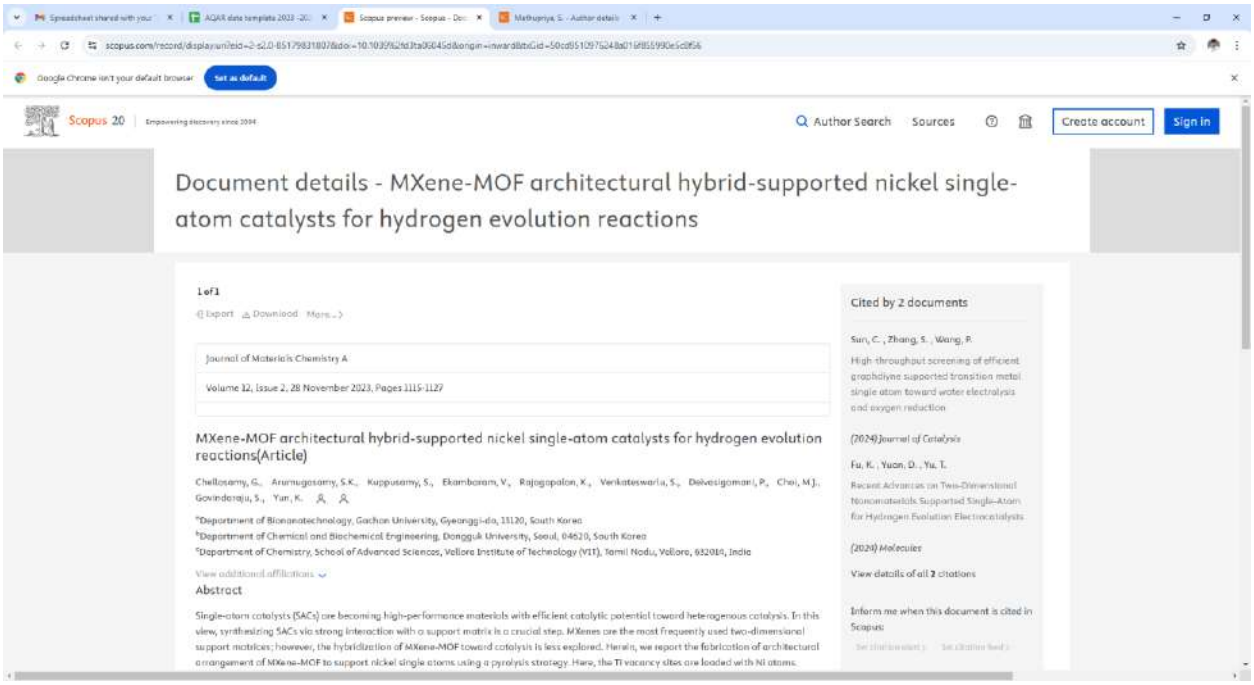
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Journal of Materials Chemistry A
Volume 12, Issue 2, 28 November 2023, Pages 1115-1129
MXene-MOF architectural hybrid-supported nickel single-atom catalysts for hydrogen evolution reactions(Article)
Chelliasamy, G., Arumugasamy, S.K., Kuppusamy, S., Ekambaram, V., Rajagopalan, K., Venkateswarlu, S., Deivasigamani, P., Choi, M.J., Govindaraju, S., Yun, K.
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Abstract
Single-atom catalysts (SACs) are becoming high-performance materials with efficient catalytic potential toward heterogeneous catalysis. In this view, synthesizing SACs via strong interaction with a support matrix is a crucial step. MXenes are the most frequently used two-dimensional support matrices; however, the hybridization of MXene-MOF toward catalysis is less explored. Herein, we report the fabrication of architectural arrangement of MXene-MOF to support nickel single atoms using a pyrolysis strategy. Here, the Ti vacancy sites are loaded with Ni atoms.
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High-throughput screening of efficient graphdiyne supported transition metal single atom toward water electrolysis and oxygen reduction
(2024) Journal of Catalysis
Fu, K., Yuan, D., Yu, T.
Recent Advances on Two-Dimensional Nanomaterials Supported Single-Atom for Hydrogen Evolution Electrocatalysis
(2024) Molecules
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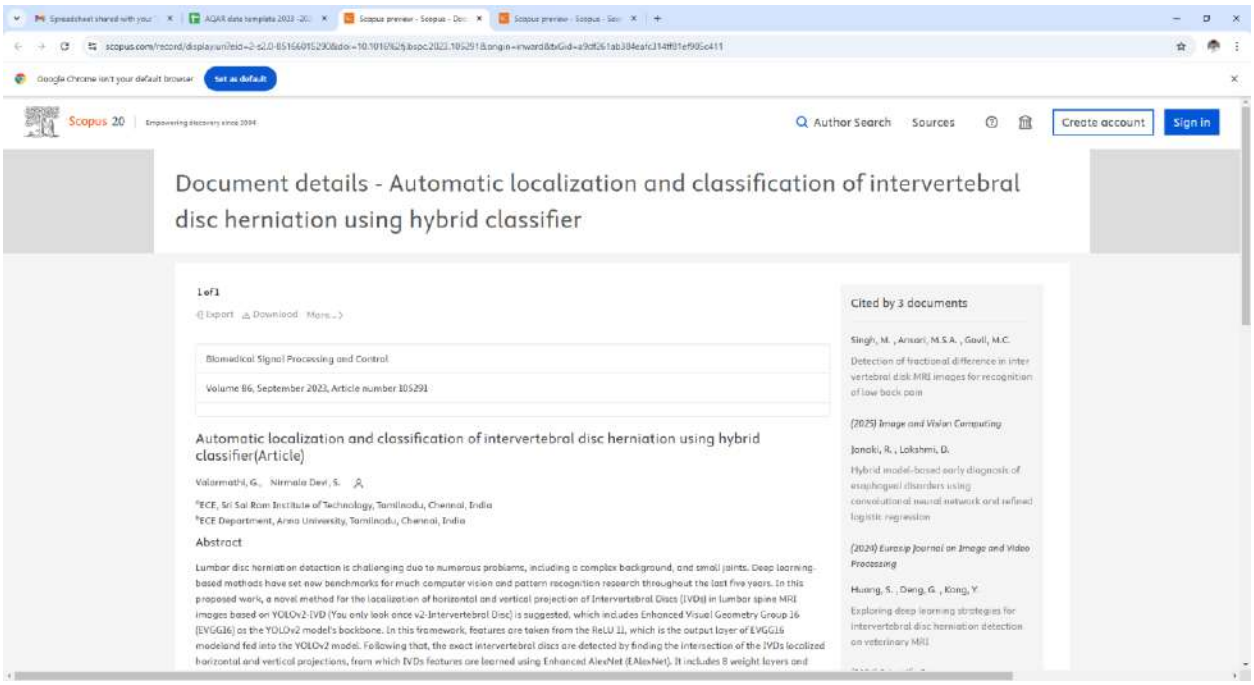
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Biomedical Signal Processing and Control
Volume 86, September 2023, Article number 105291
Automatic localization and classification of intervertebral disc herniation using hybrid classifier(Article)
Valarmathi, G., Nirmala Devi, S.
[a]ECE, Sri Sai Ram Institute of Technology, Tamilnadu, Chennai, India
[b]ECE Department, Anna University, Tamilnadu, Chennai, India
Abstract
Lumbar disc herniation detection is challenging due to numerous problems, including a complex background, and small joints. Deep learning-based methods have set new benchmarks for much computer vision and pattern recognition research throughout the last five years. In this proposed work, a novel method for the localization of horizontal and vertical projection of Intervertebral Discs (IVDs) in lumbar spine MRI images based on YOLOv2-IVD (You only look once v2-Intervertebral Disc) is suggested, which includes Enhanced Visual Geometry Group 16 (EVGG16) as the YOLOv2 model's backbone. In this framework, features are taken from the ReLU 11, which is the output layer of EVGG16 modeland fed into the YOLOv2 model. Following that, the exact intervertebral discs are detected by finding the intersection of the IVDs localized horizontal and vertical projections, from which IVDs features are learned using Enhanced AlexNet (EAlexNet). It includes 8 weight layers and
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Hybrid model-based early diagnosis of esophageal disorders using convolutional neural network and refined logistic regression
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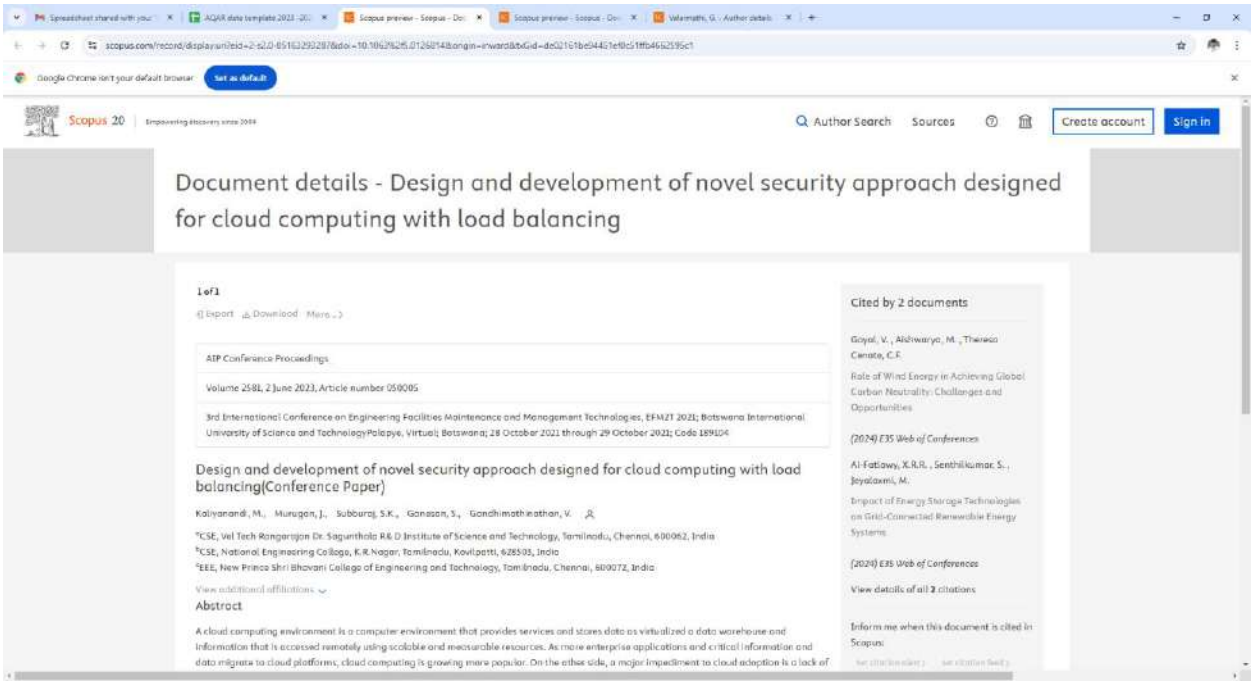
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Volume 2581, 2 June 2023, Article number 050005
3rd International Conference on Engineering Facilities Maintenance and Management Technologies, EFMMT 2021; Botswana International University of Science and TechnologyPalapye, Virtual; Botswana; 28 October 2021 through 29 October 2021; Code 189104
Design and development of novel security approach designed for cloud computing with load balancing(Conference Paper)
Kaliyanandi, M., Murugan, J., Subburaj, S.K., Ganason, S., Gandhimathinathan, V.
[a]CSE, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Tamilnadu, Chennai, 600062, India
[b]CSE, National Engineering College, K.R.Nagar, Tamilnadu, Kovilpatti, 628503, India
[c]EEE, New Prince Shri Bhavani College of Engineering and Technology, Tamilnadu, Chennai, 600073, India
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Abstract
A cloud computing environment is a computer environment that provides services and stores data as virtualized a data warehouse and information that is accessed remotely using scalable and measurable resources. As more enterprise applications and critical information and data migrate to cloud platforms, cloud computing is growing more popular. On the other side, a major impediment to cloud adoption is a lack of
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WSN Based Industrial Pollution Monitoring System(Conference Paper)
Sweetlina Sharmini, S., Lakshmi Devi, R., Sangeetha, K.
Sri Sai Ram Institute of Technology, Department of Electronics and Communication Engineering, Chennai, India
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Sriram, S., Chandrakala, D., Kokulavani, K.
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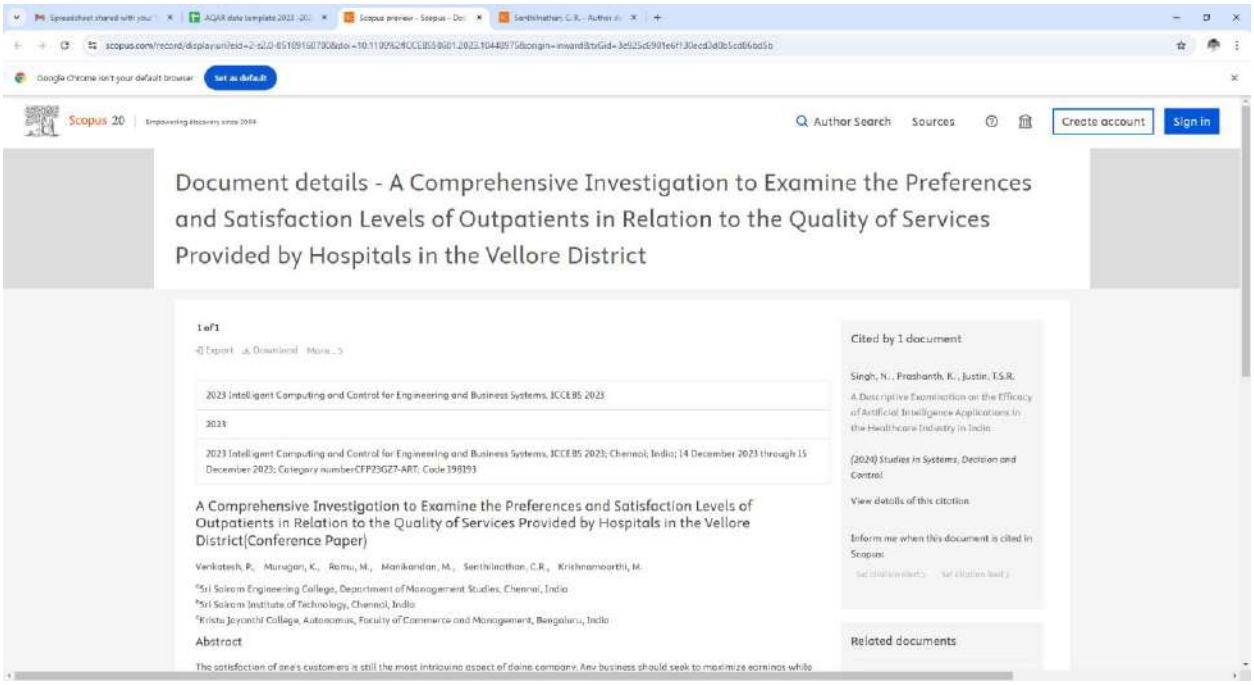
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A Comprehensive Investigation to Examine the Preferences and Satisfaction Levels of Outpatients in Relation to the Quality of Services Provided by Hospitals in the Vellore District(Conference Paper)
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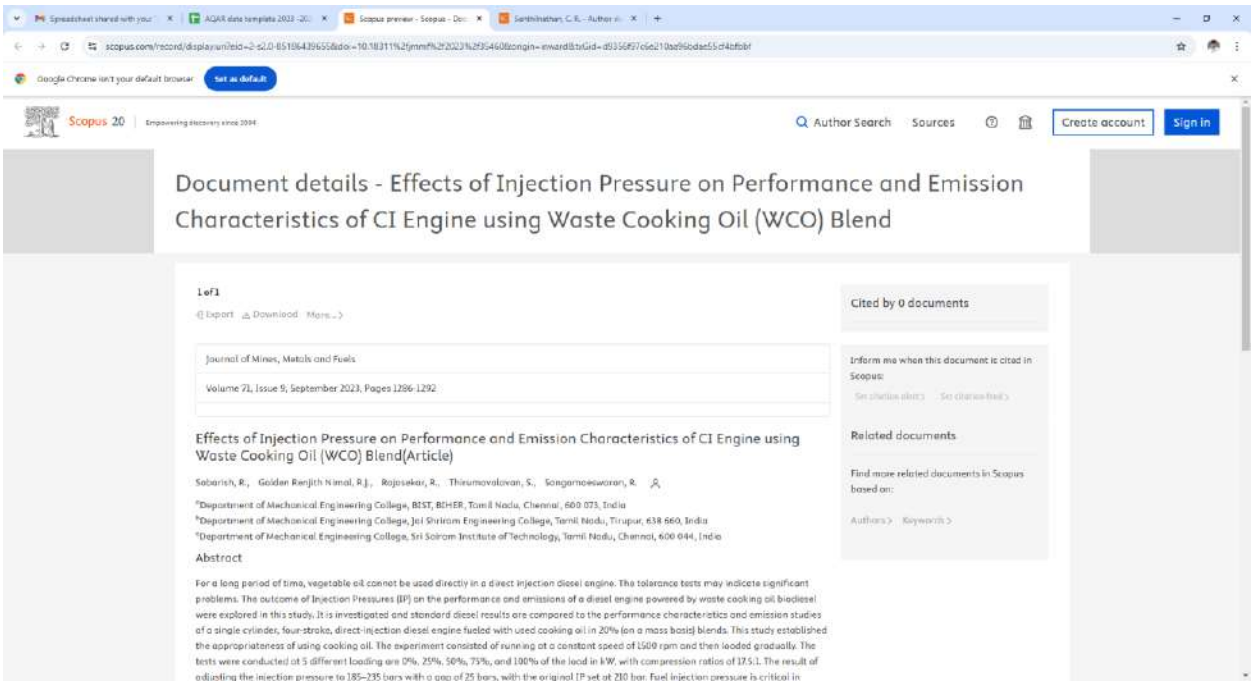
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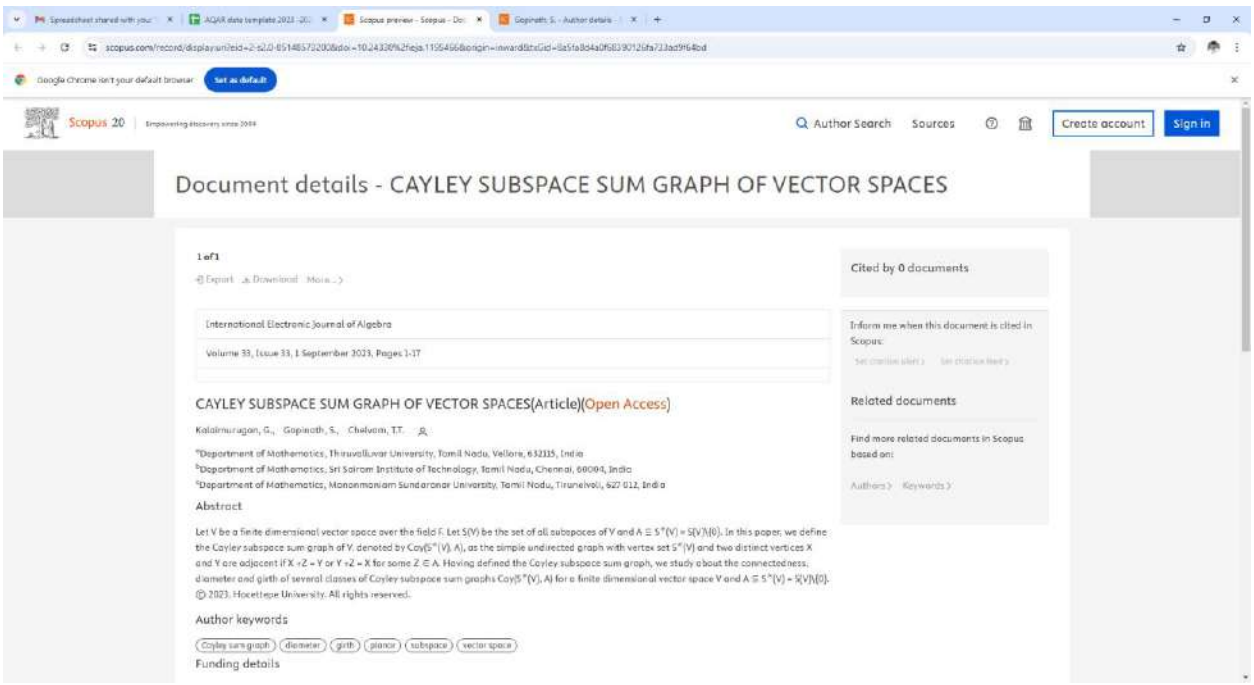
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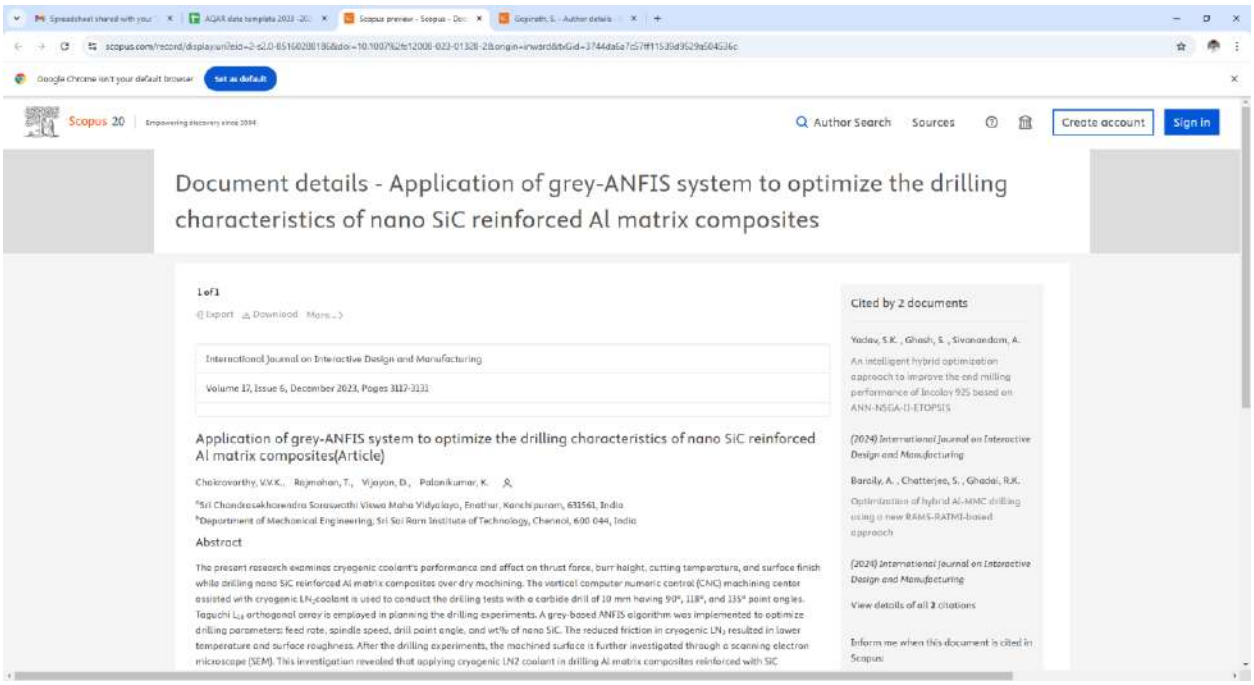
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Application of grey-ANFIS system to optimize the drilling characteristics of nano SiC reinforced Al matrix composites(Article)
Chakravarthy, V.V.K., Rajmohan, T., Vijayan, D., Palanikumar, K.
Abstract
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(2024) International Journal on Interactive Design and Manufacturing
Bandly, A. , Chatterjee, S. , Ghadai, R.K.
Optimization of hybrid Al-MMC drilling using a new RAMS-RATMI-based approach
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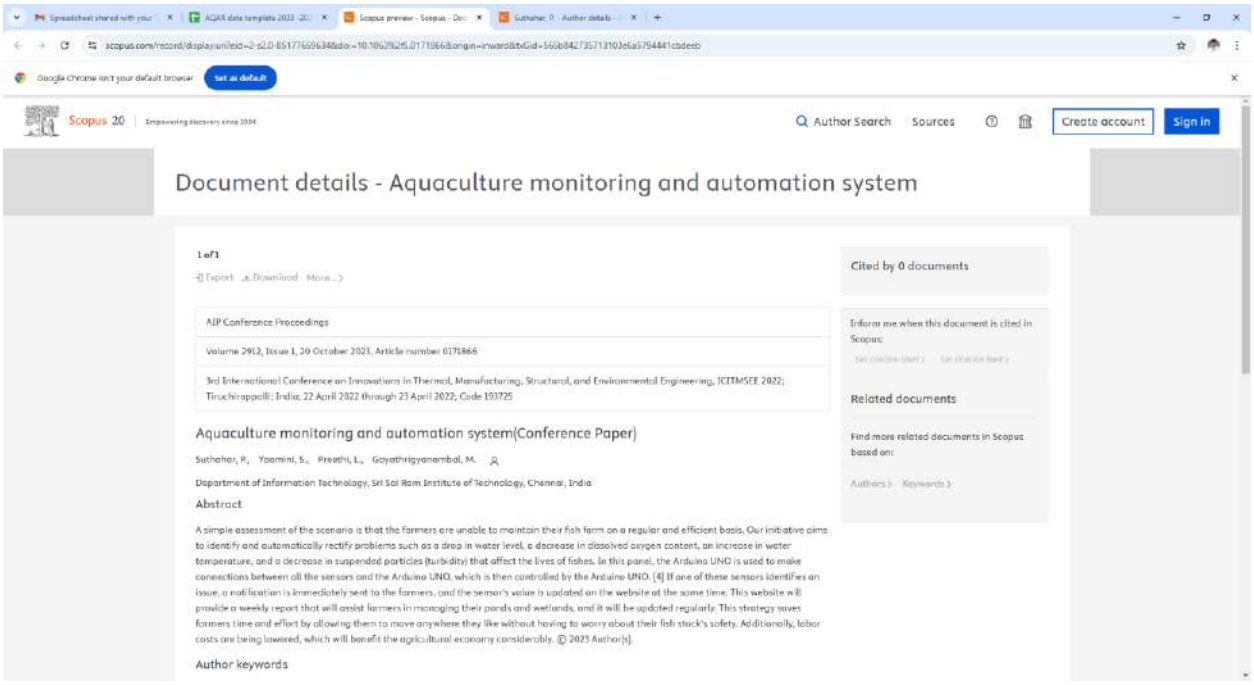
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3rd International Conference on Innovations in Thermal, Manufacturing, Structural, and Environmental Engineering, ICITMSEE 2022; Tiruchirappalli; India; 22 April 2022 through 23 April 2022; Code 193725
Aquaculture monitoring and automation system(Conference Paper)
Suthaher, P., Yaamini, S., Preethi, L., Goyathrigyanambal, M.
Department of Information Technology, Sri Sai Ram Institute of Technology, Chennai, India
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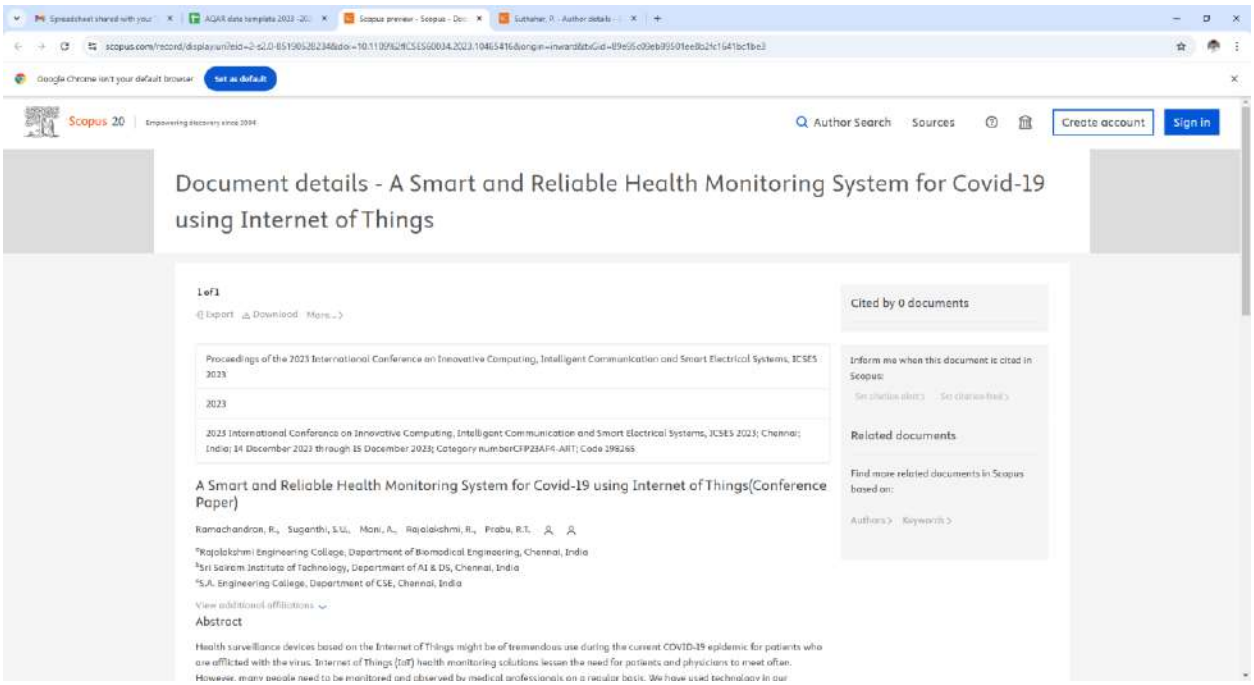
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2023 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES 2023; Chennai; India; 14 December 2023 through 15 December 2023; Category numberCFP23AF6-ART; Code 198265
A Smart and Reliable Health Monitoring System for Covid-19 using Internet of Things(Conference Paper)
Ramachandran, P., Suganthi, S.U., Moni, A., Rajalakshmi, R., Prabu, R.T.
[a]Rajalakshmi Engineering College, Department of Biomedical Engineering, Chennai, India
[b]Sri Sairam Institute of Technology, Department of AI & DS, Chennai, India
[c]S.A. Engineering College, Department of CSE, Chennai, India
View additional affiliations
Abstract
Health surveillance devices based on the Internet of Things might be of tremendous use during the current COVID-19 epidemic for patients who are afflicted with the virus. Internet of Things (IoT) health monitoring solutions lessen the need for patients and physicians to meet often. However, many people need to be monitored and observed by medical professionals on a regular basis. We have used technology in our
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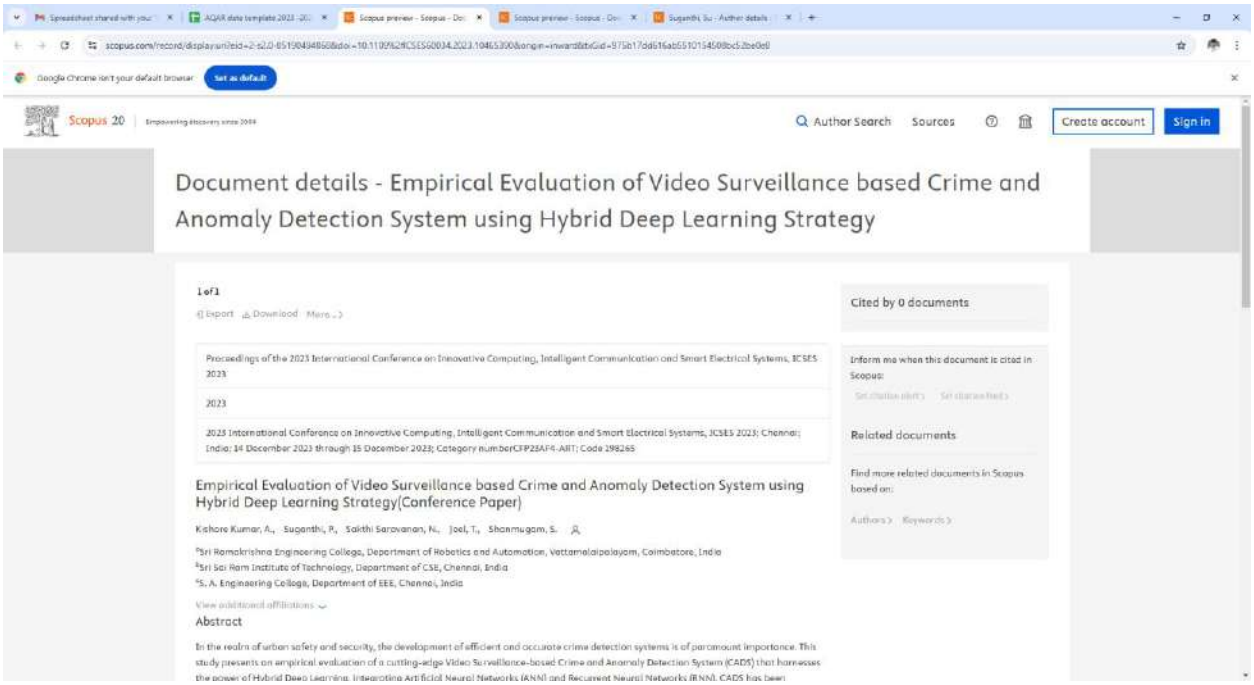
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Empirical Evaluation of Video Surveillance based Crime and Anomaly Detection System using Hybrid Deep Learning Strategy(Conference Paper)
Kishore Kumar, A., Suganthi, P., Sakthi Saravanan, N., Joel, T., Shanmugam, S.
[a]Sri Ramakrishna Engineering College, Department of Robotics and Automation, Vattamalaipalayam, Coimbatore, India
[b]Sri Sai Ram Institute of Technology, Department of CSE, Chennai, India
[c]S. A. Engineering College, Department of EEE, Chennai, India
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Abstract
In the realm of urban safety and security, the development of efficient and accurate crime detection systems is of paramount importance. This study presents an empirical evaluation of a cutting-edge Video Surveillance-based Crime and Anomaly Detection System (CADS) that harnesses the power of Hybrid Deep Learning, integrating Artificial Neural Networks (ANN) and Recurrent Neural Networks (RNN). CADS has been
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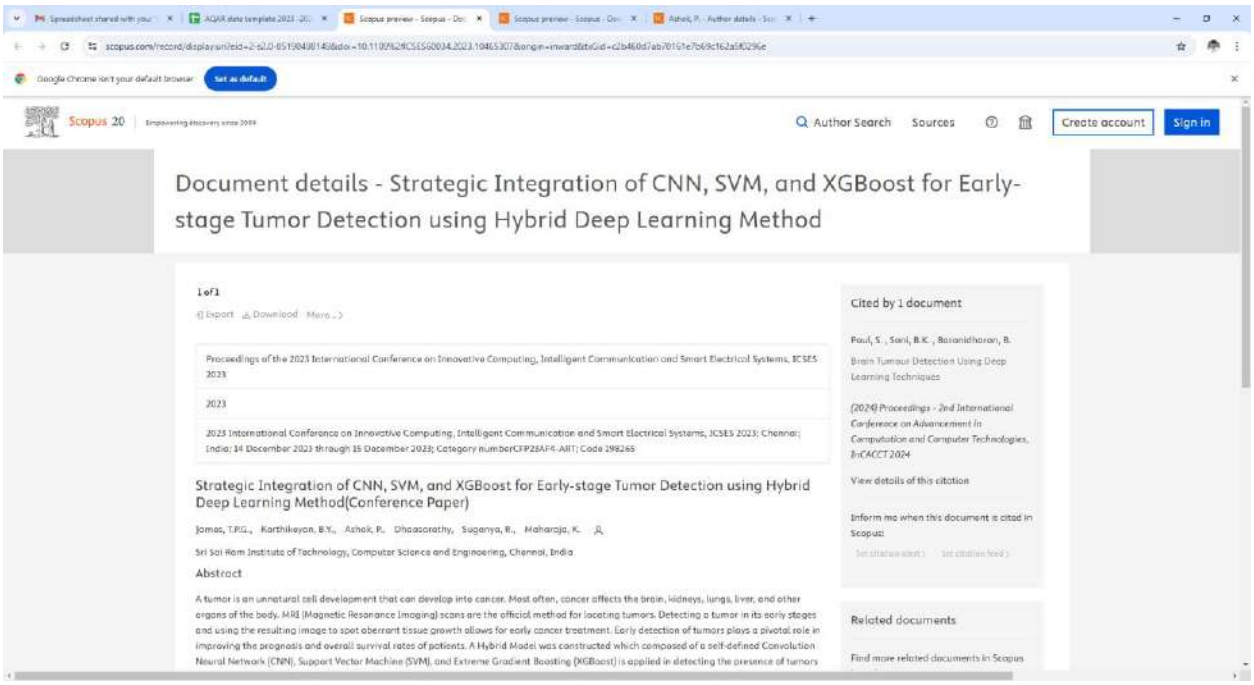
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Strategic Integration of CNN, SVM, and XGBoost for Early-stage Tumor Detection using Hybrid Deep Learning Method(Conference Paper)
Jomas, T.P.G., Karthikeyan, B.Y., Ashok, P., Dhasarathy, Suganya, R., Maharaja, K.
Sri Sai Ram Institute of Technology, Computer Science and Engineering, Chennai, India
Abstract
A tumor is an unnatural cell development that can develop into cancer. Most often, cancer affects the brain, kidneys, lungs, liver, and other organs of the body. MRI (Magnetic Resonance Imaging) scans are the official method for locating tumors. Detecting a tumor in its early stages and using the resulting image to spot aberrant tissue growth allows for early cancer treatment. Early detection of tumors plays a pivotal role in improving the prognosis and overall survival rates of patients. A Hybrid Model was constructed which composed of a self-defined Convolution Neural Network (CNN), Support Vector Machine (SVM), and Extreme Gradient Boosting (XGBoost) is applied in detecting the presence of tumors
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Brain Tumour Detection Using Deep Learning Techniques
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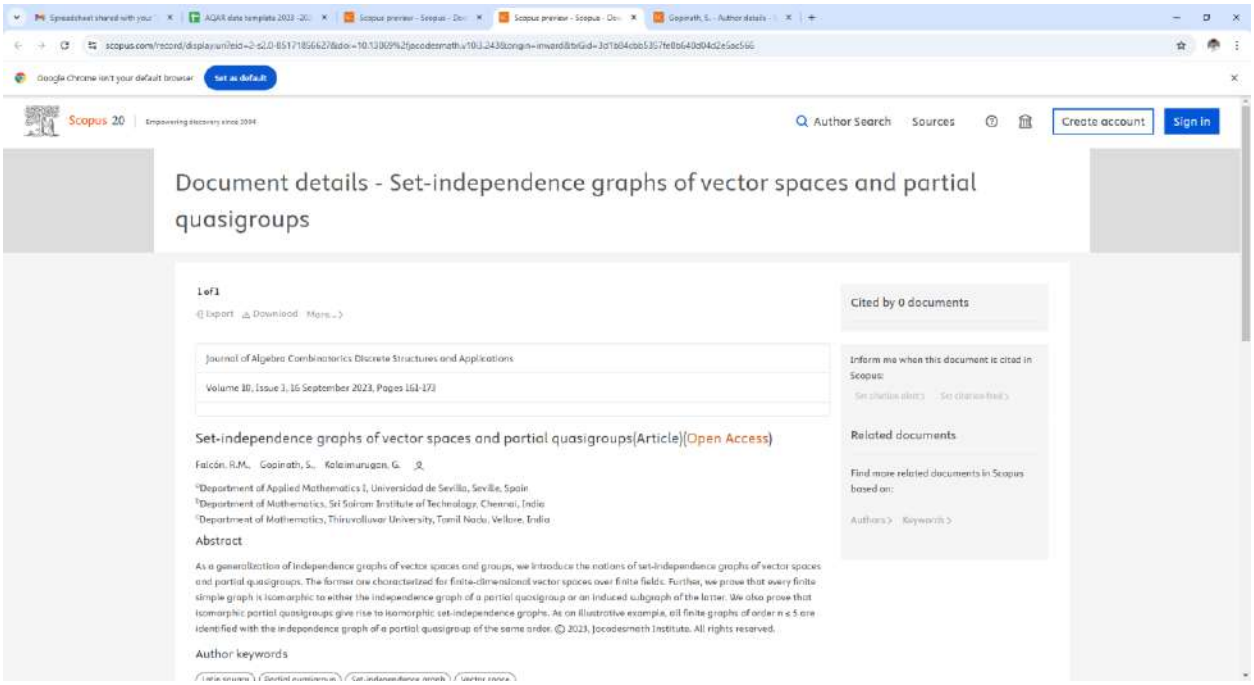
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Journal of Algebra Combinatorics Discrete Structures and Applications
Volume 10, Issue 1, 16 September 2023, Pages 161-173
Set-independence graphs of vector spaces and partial quasigroups(Article)(Open Access)
Falcón, R.M., Gopinath, S., Kolaimurugan, G.
[a]Department of Applied Mathematics I, Universidad de Sevilla, Seville, Spain
[b]Department of Mathematics, Sri Sairam Institute of Technology, Chennai, India
[c]Department of Mathematics, Thiruvalluvar University, Tamil Nadu, Vellore, India
Abstract
As a generalization of independence graphs of vector spaces and groups, we introduce the notions of set-independence graphs of vector spaces and partial quasigroups. The former are characterized for finite-dimensional vector spaces over finite fields. Further, we prove that every finite simple graph is isomorphic to either the independence graph of a partial quasigroup or an induced subgraph of the latter. We also prove that isomorphic partial quasigroups give rise to isomorphic set-independence graphs. As an illustrative example, all finite graphs of order n ≤ 5 are identified with the independence graph of a partial quasigroup of the same order. © 2023, Jocadesmath Institute. All rights reserved.
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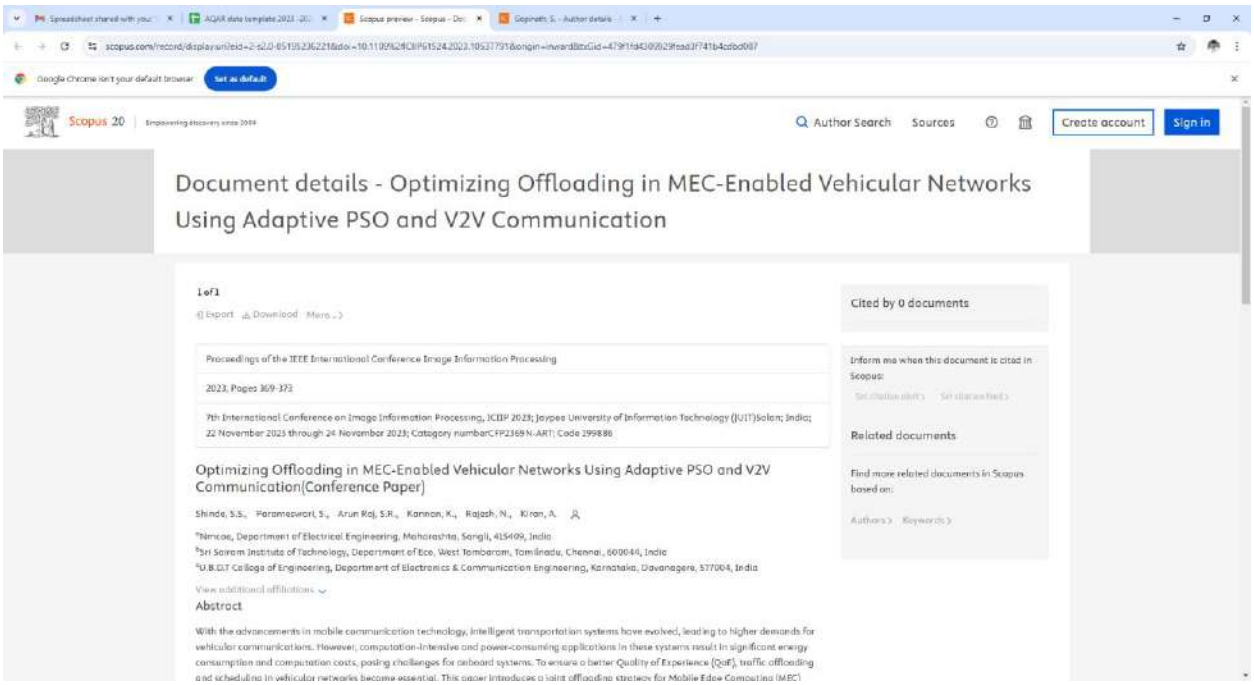
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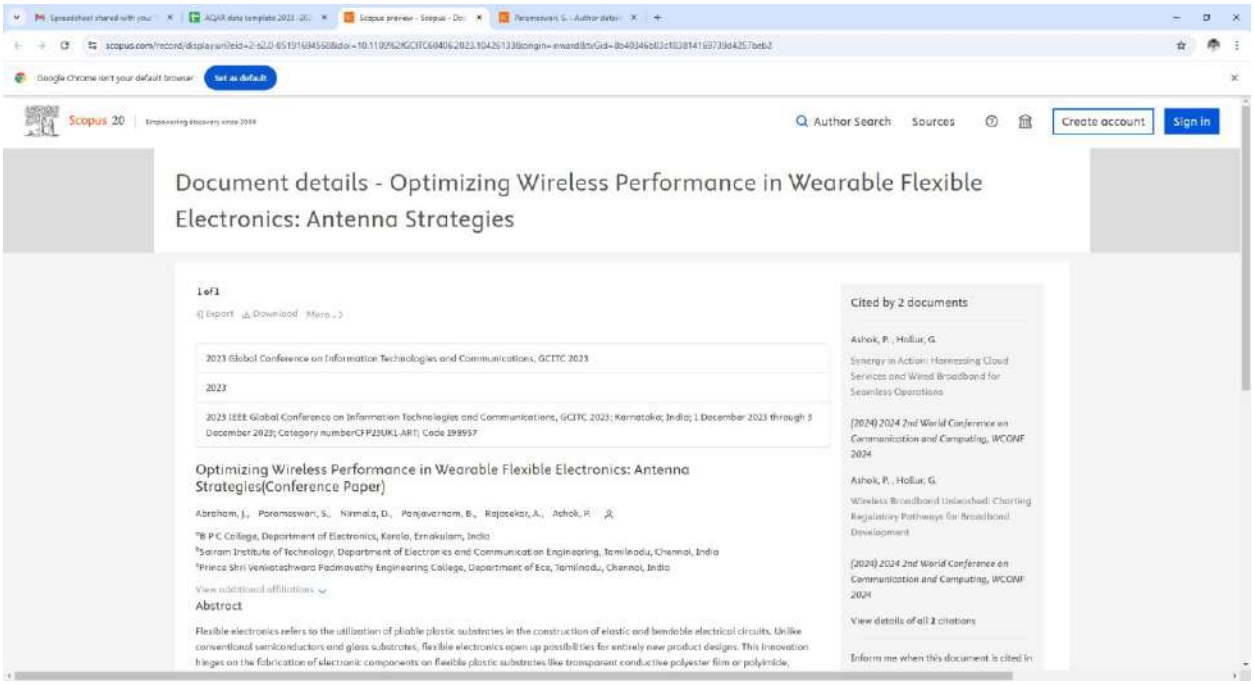
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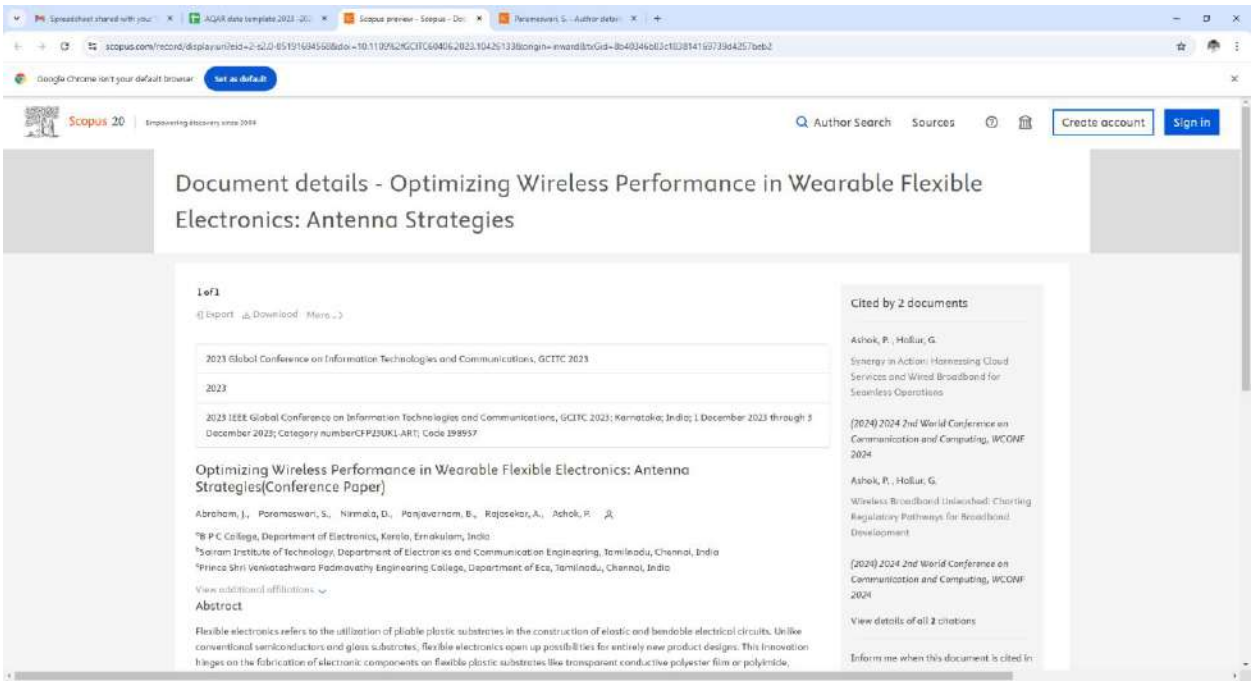
Optimizing Wireless Performance in Wearable Flexible Electronics: Antenna Strategies(Conference Paper)
Abstract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Abraham, J., Paramaswari, S., Nirmala, D., Panjavarnam, B., Rajasekar, A., Ashok, P.
[a]B P C College, Department of Electronics, Kerala, Ernakulam, India
[b]Sairam Institute of Technology, Department of Electronics and Communication Engineering, Tamilnadu, Chennai, India
[c]Prince Shri Venkateshwara Padmavathy Engineering College, Department of Ece, Tamilnadu, Chennai, India
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Abstract
Flexible electronics refers to the utilization of pliable plastic substrates in the construction of elastic and bendable electrical circuits. Unlike conventional semiconductors and glass substrates, flexible electronics open up possibilities for entirely new product designs. This innovation hinges on the fabrication of electronic components on flexible plastic substrates like transparent conductive polyester film or polyimide,
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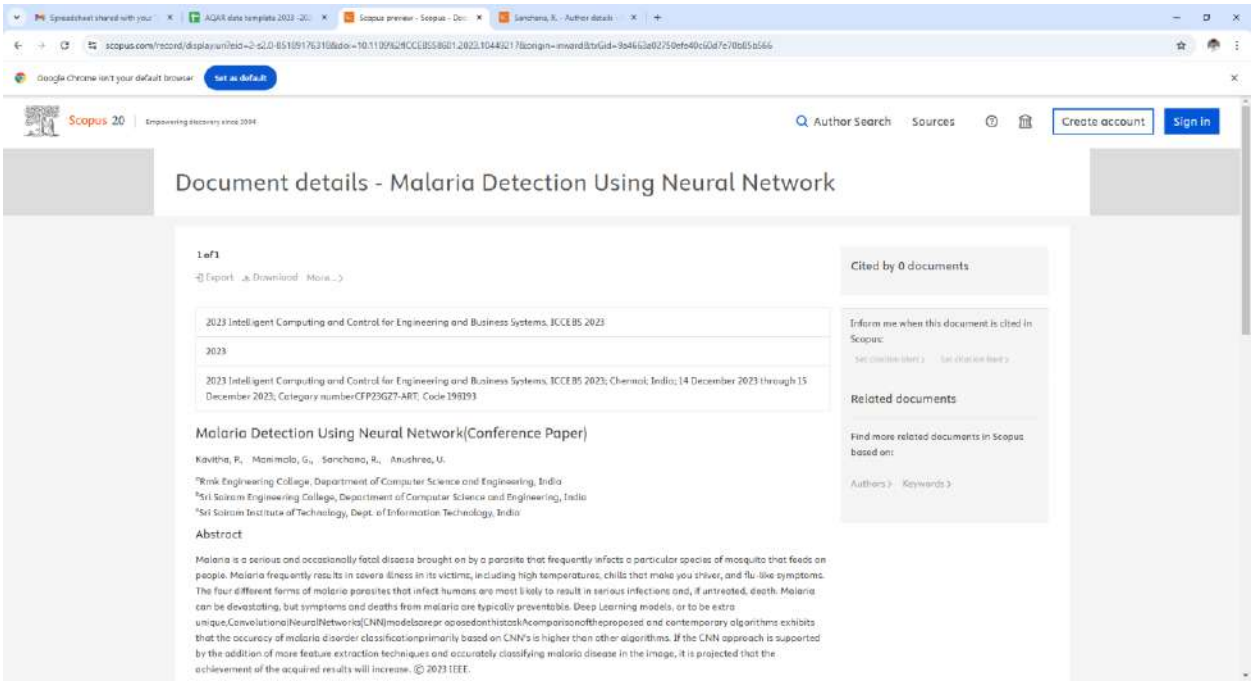
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Malaria Detection Using Neural Network(Conference Paper)
Kavitha, P., Manimala, G., Sanchana, R., Anushree, U.
[a]Rmk Engineering College, Department of Computer Science and Engineering, India
[b]Sri Sairam Engineering College, Department of Computer Science and Engineering, India
[c]Sri Sairam Institute of Technology, Dept. of Information Technology, India
Abstract
Malaria is a serious and occasionally fatal disease brought on by a parasite that frequently infects a particular species of mosquito that feeds on people. Malaria frequently results in severe illness in its victims, including high temperatures, chills that make you shiver, and flu-like symptoms. The four different forms of malaria parasites that infect humans are most likely to result in serious infections and, if untreated, death. Malaria can be devastating, but symptoms and deaths from malaria are typically preventable. Deep Learning models, or to be extra unique,ConvolutionalNeuralNetworks(CNN)modelsarepr oposedonthistask.Acomparisonoftheproposed and contemporary algorithms exhibits that the accuracy of malaria disorder classificationprimarily based on CNN's is higher than other algorithms. If the CNN approach is supported by the addition of more feature extraction techniques and accurately classifying malaria disease in the image, it is projected that the achievement of the acquired results will increase. © 2023 IEEE.
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An Analysis of the Strategic Approach to Utilizing Deep Learning for the Purpose of Predicting Stock Prices(Conference Paper)
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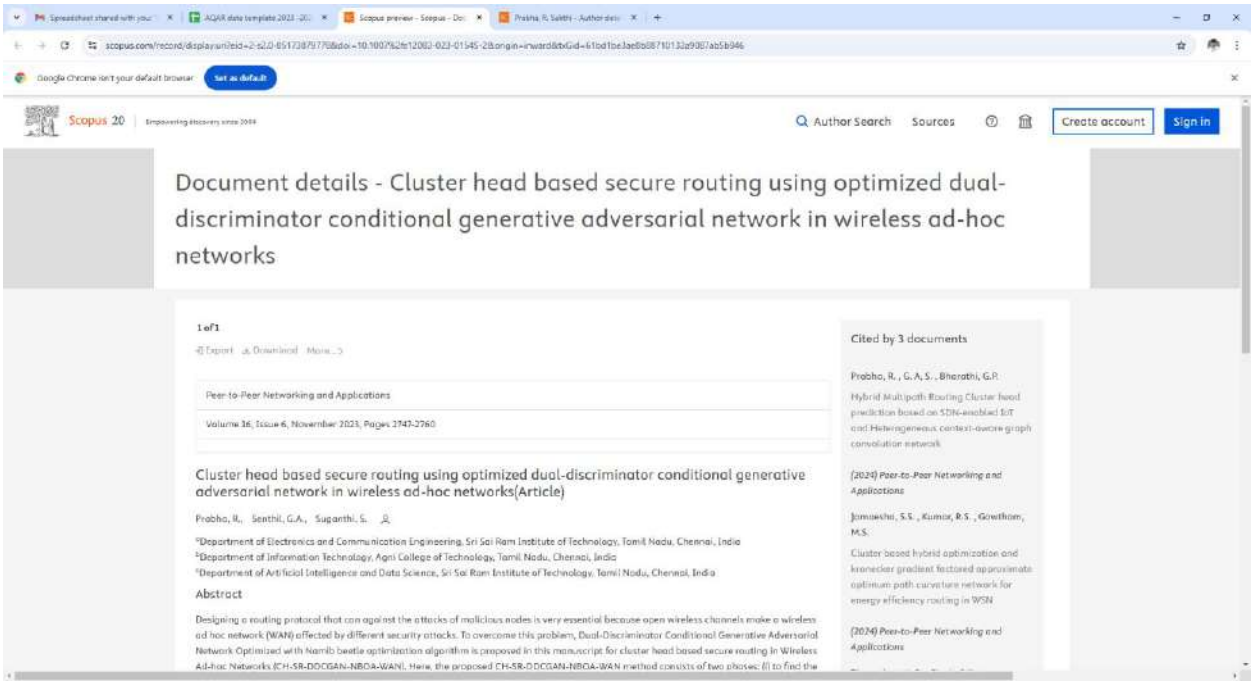
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Hybrid Multipath Routing Cluster head prediction based on SDN-enabled IoT and Heterogeneous context-aware graph convolution network
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Jamuwshi, S.S. , Kumar, R.S. , Govethan, M.S.
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Soosaimanickam, A., Sundaram, S.K., Sridharan, M.B.

[a] R and D Division, Intercomet S. L, Madrid, Spain
[b] Sri Sairam Institute of Technology, Chennai, India
[c] Crystal Growth Centre, Anna University, Chennai, India

Abstract

[No abstract available]

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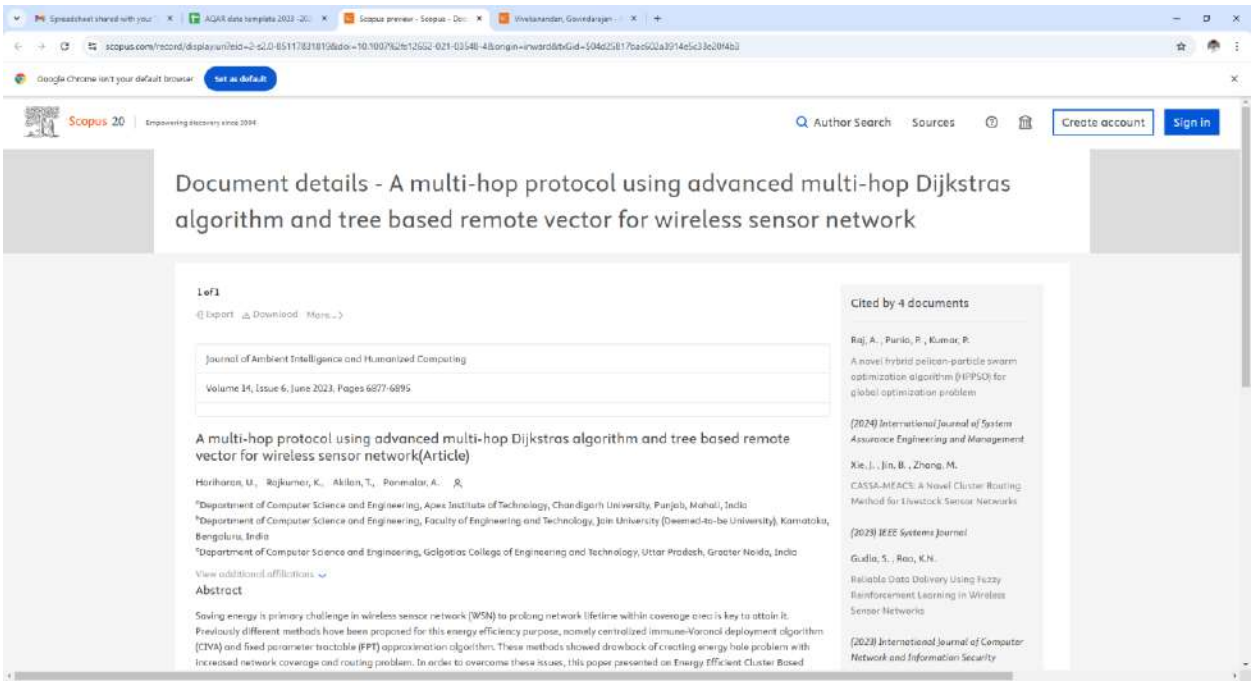
Solar Panel Power Prediction Using Machine Learning Technique(Conference Paper)

Sekar, S., Kaviya, V., Vivekanandan, G., Nithya, P.

[a] Srm Valliammai Engineering College, Department of Information Technology, Chennai, India
[b] Sri Sairam Institute of Technology, Department of Computer Science and Engineering, Chennai, India
[c] Srm Institute of Science and Technology, Department of Computational Intelligence, Chennai, India

Abstract

One of the most significant renewable energy sources produced by photovoltaic panels (PV) is solar energy. Only during the day is solar energy available, and it is affected by meteorological elements such sun irradiation, cloud coverage, rainfall, and temperature. Due to these variables, the integration of solar power into the power grid is more challenging than it is for conventional energy sources. Changes in the solar power output result in increased electricity demand and higher operating costs. This leads to predict the power produced by solar PV panels accurately. There are numerous methods for estimating the power produced by PV systems, and the data sources used are either just historical data on PV power or historical data on both PV power and weather. In proposed system the data sources used are previous PV power output, weather data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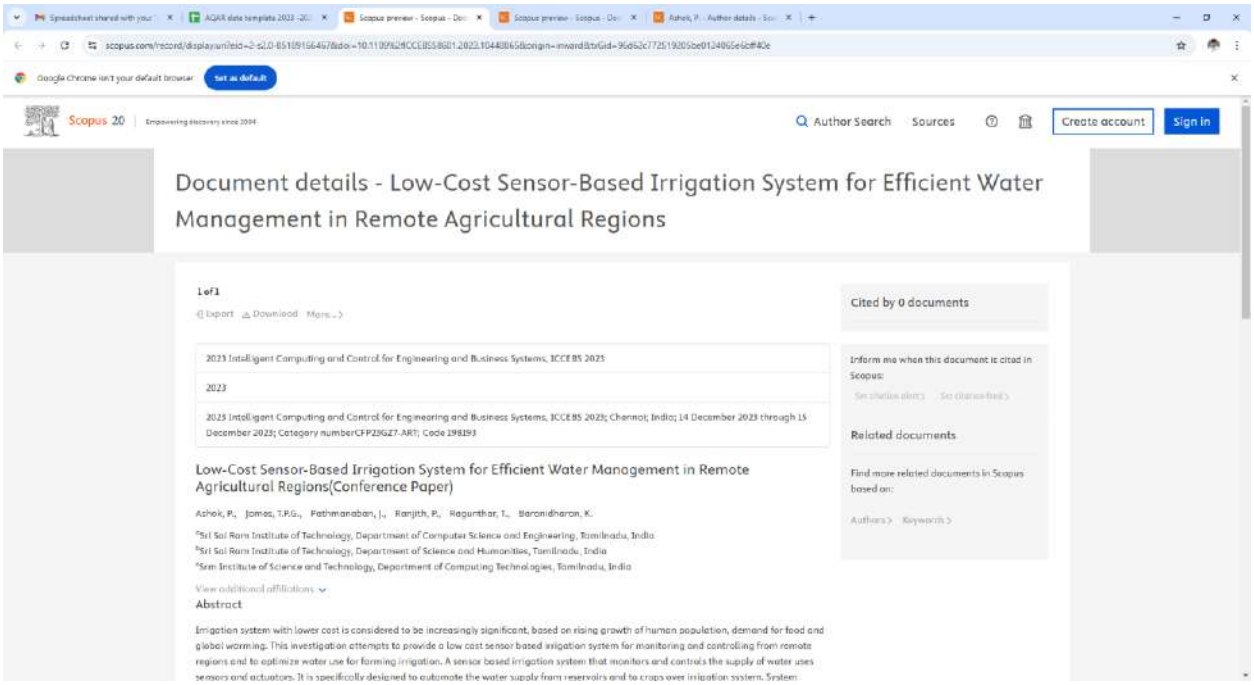
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Low-Cost Sensor-Based Irrigation System for Efficient Water Management in Remote Agricultural Regions(Conference Paper)
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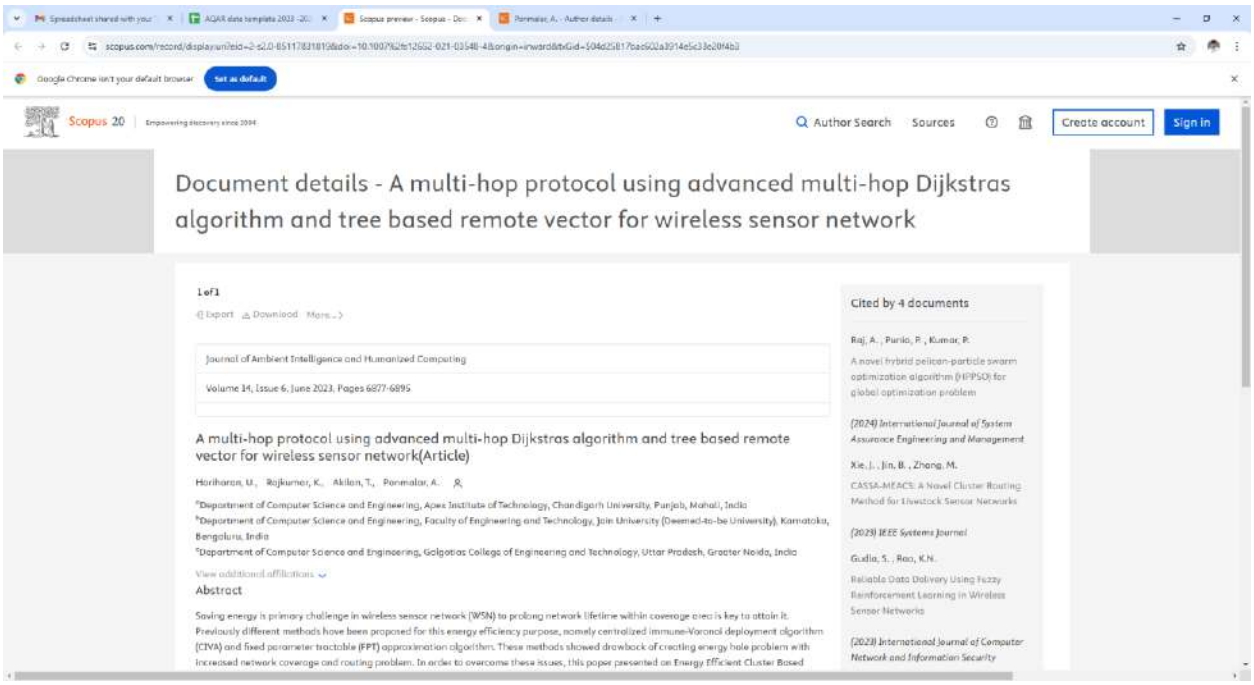
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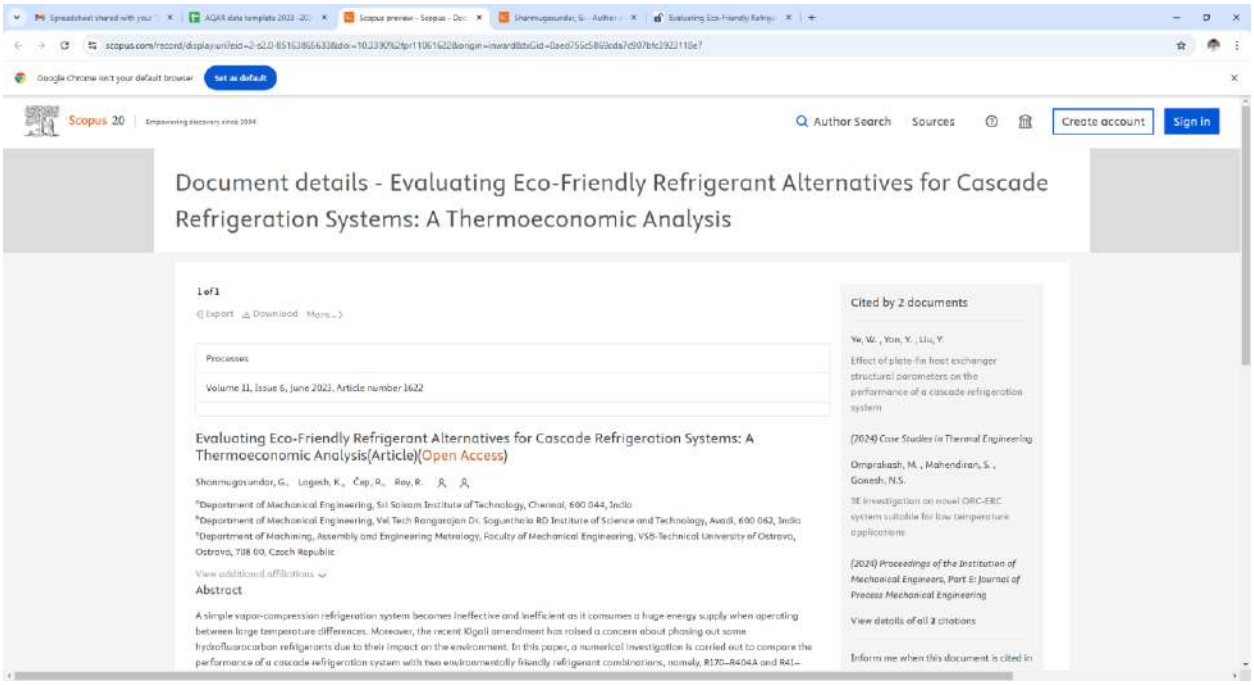
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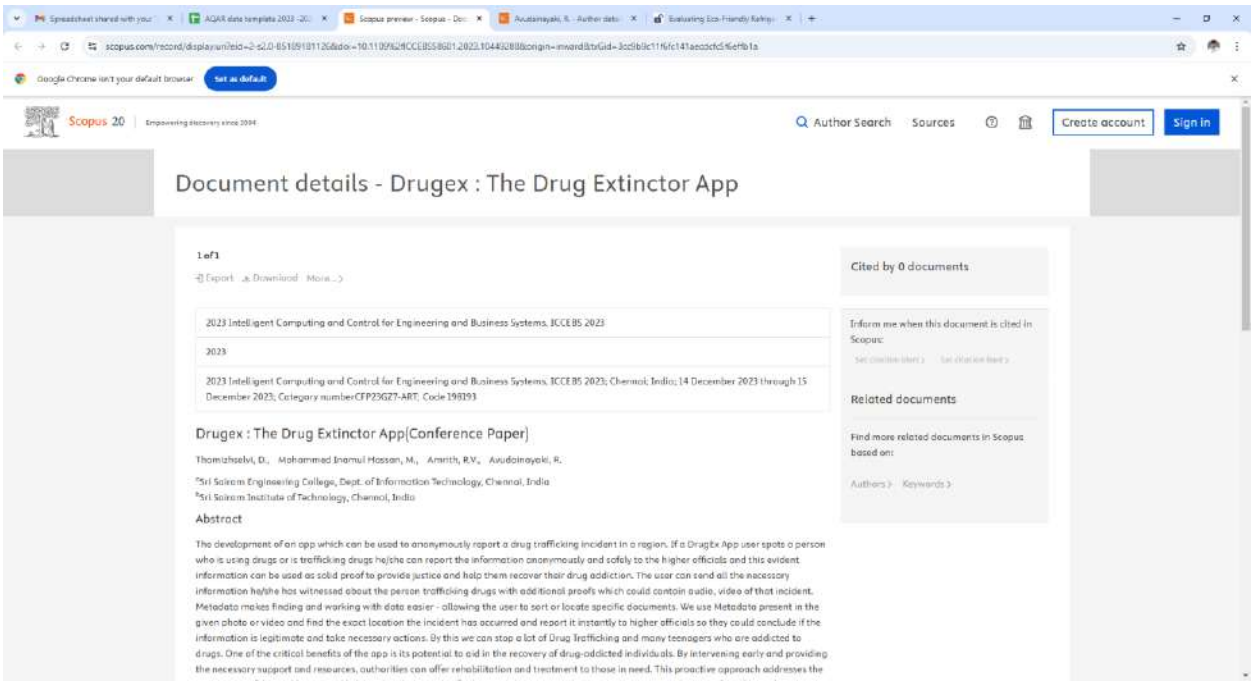
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Thamizhselvi, D., Mohammed Inamul Hassan, M., Amrith, R.V., Avudaiayaki, R.
Sri Sairam Engineering College, Dept. of Information Technology, Chennai, India
Sri Sairam Institute of Technology, Chennai, India
Abstract
The development of an app which can be used to anonymously report a drug trafficking incident in a region. If a DrugEx App user spots a person who is using drugs or is trafficking drugs he/she can report the information anonymously and safely to the higher officials and this evident information can be used as solid proof to provide justice and help them recover their drug addiction. The user can send all the necessary information he/she has witnessed about the person trafficking drugs with additional proofs which could contain audio, video of that incident. Metadata makes finding and working with data easier - allowing the user to sort or locate specific documents. We use Metadata present in the given photo or video and find the exact location the incident has occurred and report it instantly to higher officials so they could conclude if the information is legitimate and take necessary actions. By this we can stop a lot of Drug Trafficking and many teenagers who are addicted to drugs. One of the critical benefits of the app is its potential to aid in the recovery of drug-addicted individuals. By intervening early and providing the necessary support and resources, authorities can offer rehabilitation and treatment to those in need. This proactive approach addresses the
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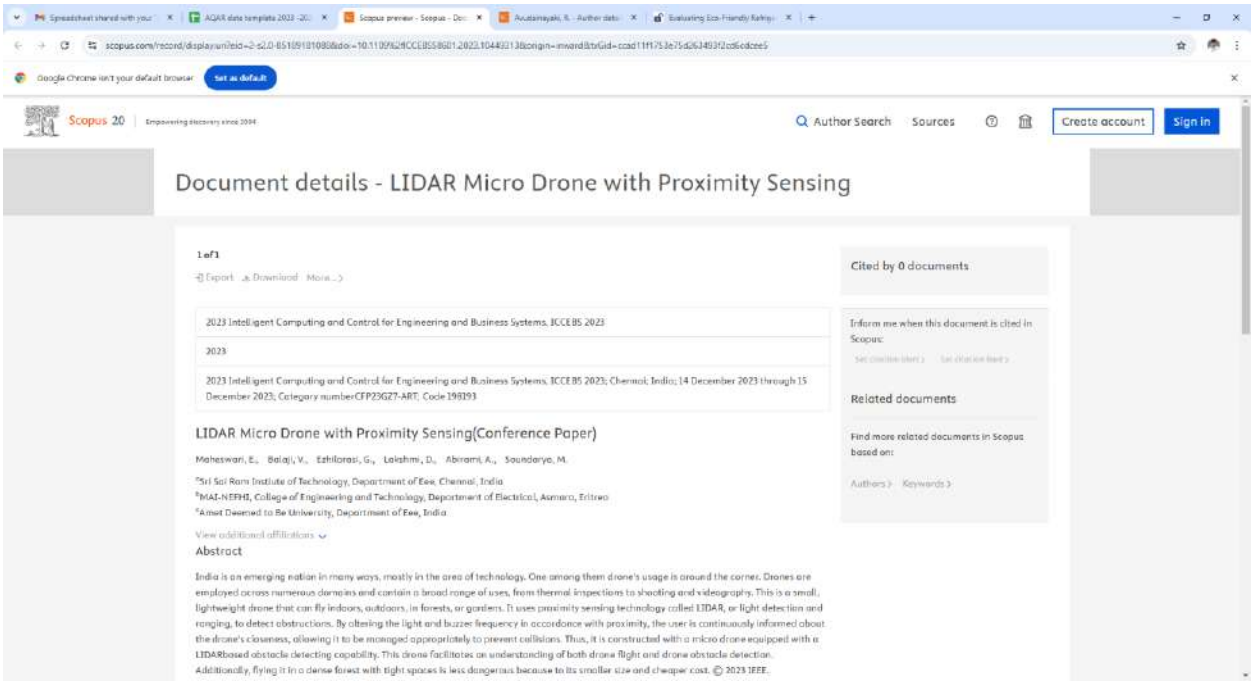
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Maheswari, E., Balaji, V., Ezhilarasi, G., Lakshmi, D., Abirami, A., Soundarya, M.
Sri Sai Ram Institute of Technology, Department of Eee, Chennai, India
MAI-NEFHI, College of Engineering and Technology, Department of Electrical, Asmara, Eritrea
Amet Deemed to Be University, Department of Eee, India
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Abstract
India is an emerging nation in many ways, mostly in the area of technology. One among them drone's usage is around the corner. Drones are employed across numerous domains and contain a broad range of uses, from thermal inspections to shooting and videography. This is a small, lightweight drone that can fly indoors, outdoors, in forests, or gardens. It uses proximity sensing technology called LIDAR, or light detection and ranging, to detect obstructions. By altering the light and buzzer frequency in accordance with proximity, the user is continuously informed about the drone's closeness, allowing it to be managed appropriately to prevent collisions. Thus, it is constructed with a micro drone equipped with a LIDARbased obstacle detecting capability. This drone facilitates an understanding of both drone flight and drone obstacle detection. Additionally, flying it in a dense forest with tight spaces is less dangerous because to its smaller size and cheaper cost. © 2023 IEEE.
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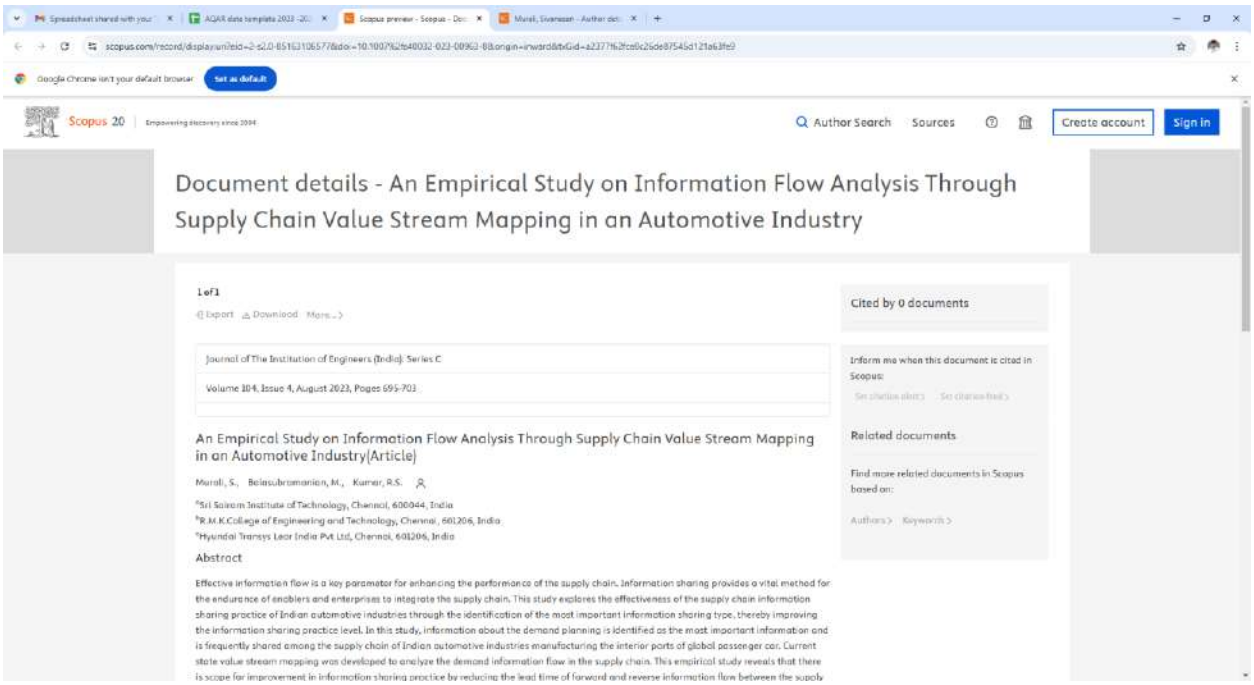
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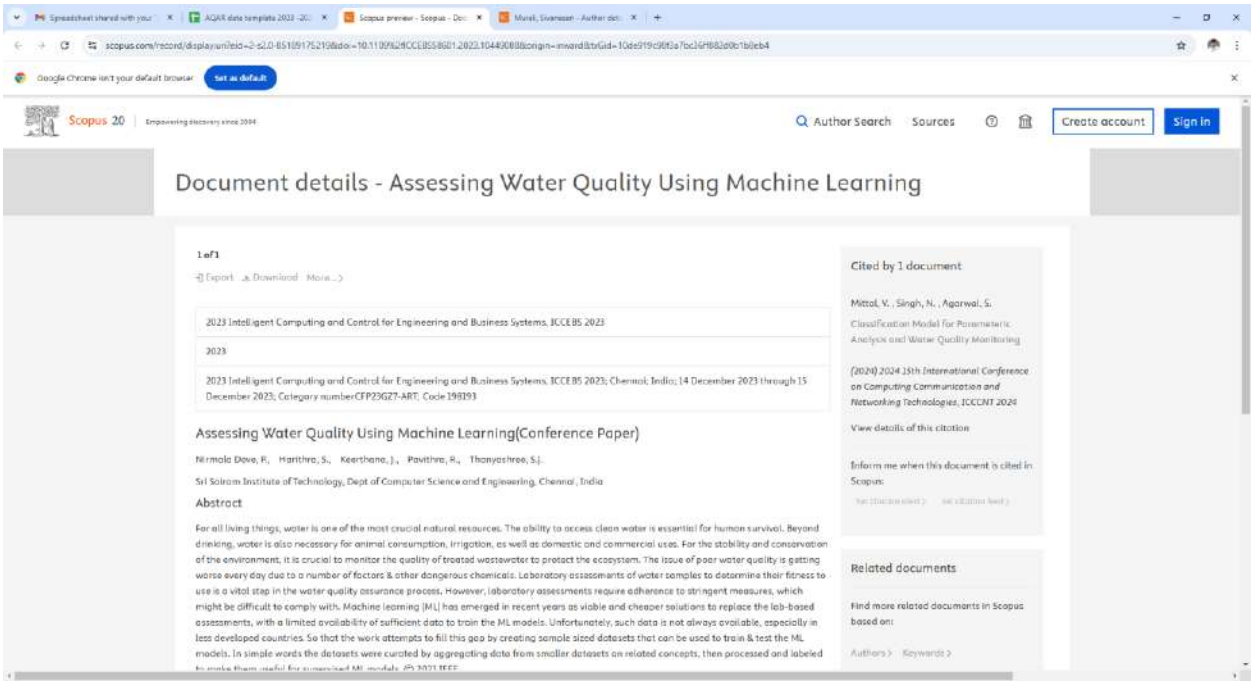
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Nirmala Devi, R., Haripriya, S., Keerthana, J., Pavithra, R., Thanyashree, S.J.
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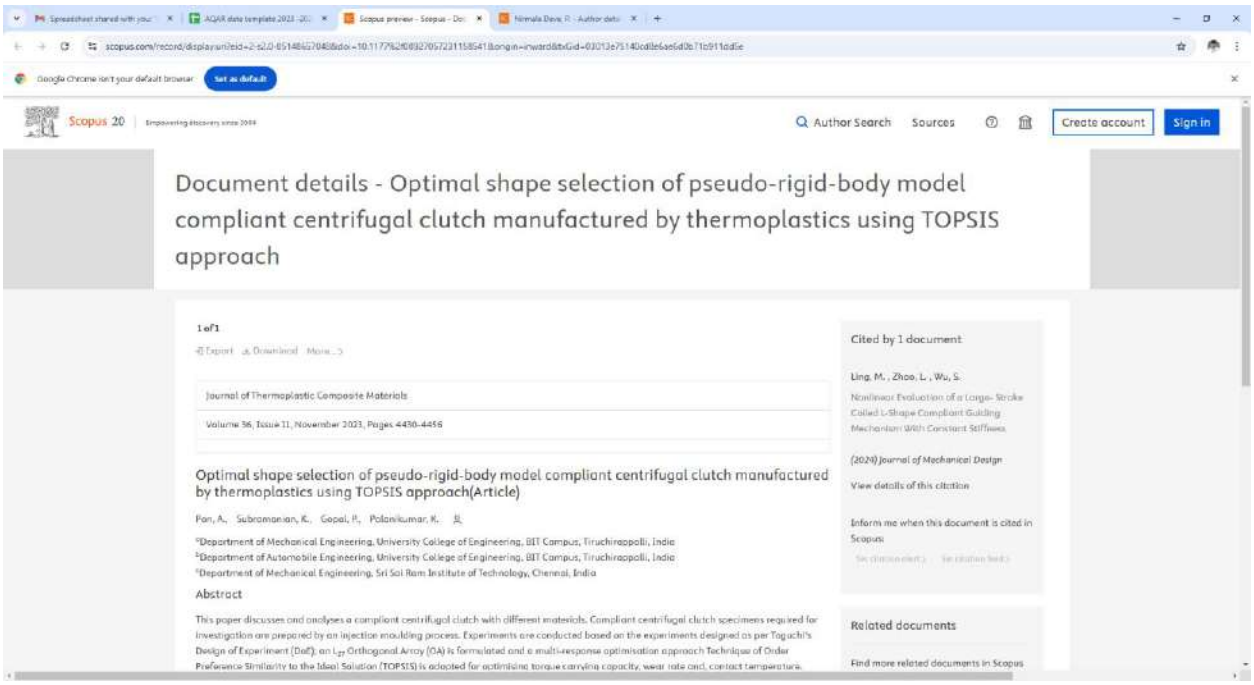
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Optimal shape selection of pseudo-rigid-body model compliant centrifugal clutch manufactured by thermoplastics using TOPSIS approach(Article)
Pon, A., Subramanian, K., Gopal, P., Palanikumar, K.
Department of Mechanical Engineering, University College of Engineering, BIT Campus, Tiruchirappalli, India
Department of Automobile Engineering, University College of Engineering, BIT Campus, Tiruchirappalli, India
Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai, India
Abstract
This paper discusses and analyses a compliant centrifugal clutch with different materials. Compliant centrifugal clutch specimens required for investigation are prepared by an injection moulding process. Experiments are conducted based on the experiments designed as per Taguchi's Design of Experiment (DoE); an L9 Orthogonal Array (OA) is formulated and a multi-response optimisation approach Technique of Order Preference Similarity to the Ideal Solution (TOPSIS) is adopted for optimising torque carrying capacity, wear rate and, contact temperature.
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Karthick, P., Vijaya Ramnath, B.M., Palanikumar, K.
Department of Mechanical Engineering, Anna University, Chennai, 600025, India
Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai, 600044, India
Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai, 600044, India
Abstract
Nowadays, industries place a strong emphasis on low-cost, biodegradable materials with long lifespans. As a result, businesses are concentrating on creating composite materials utilizing the world's plentiful supply of natural fibers. In this study, acacia and raffia fibers are combined with epoxy resin and a hand layup method to create a biodegradable composite laminate. This article investigates the effect of fiber orientation on the mechanical and morphological evaluation of composite materials that have been manufactured. Three different kinds of composites were fabricated in this work: Composite 1, which contained acacia fiber; Composite 2, which was built of acacia and raffia fiber; and Composite 3, which was made of raffia fiber. While Composite 2 is a hybrid composite in this instance, Composites 1 and 3 are monofiber
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Investigation of the Mechanical Behavior of Acacia—Raffia Natural Fiber Composite(Article) (Open Access)
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Deshpande, A.G., Srinivasan, C., Raman, R., Rajarajan, S., Adhvaryu, R.
Pune Symbiosis International (Deemed University), Symbiosis Law School (SLS), Maharashtra, Pune, India
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Abstract
Cloud computing has transformed data storage, processing, and access. However, as cloud-based services grow more popular, protecting sensitive data is crucial. Cryptographic algorithms provide strong encryption, safe key exchange, and data integrity, improving cloud security. Cloud computing uses Secure Hash Algorithm (SHA), Rivest-Shamir-Adleman (RSA), Elliptic Curve Cryptography (ECC), Advanced Encryption Standard (AES), and the Diffie-Hellman algorithm key exchange. For verifying data integrity Cloud computing uses SHA. SHA protects data during transmission and storage by creating a unique hash value for each block. This prohibits cloud data manipulation, ensuring data integrity. Asymmetric cloud encryption algorithm RSA is commonly used. Public and private keys ensure data transfer and secrecy. Cloud service providers
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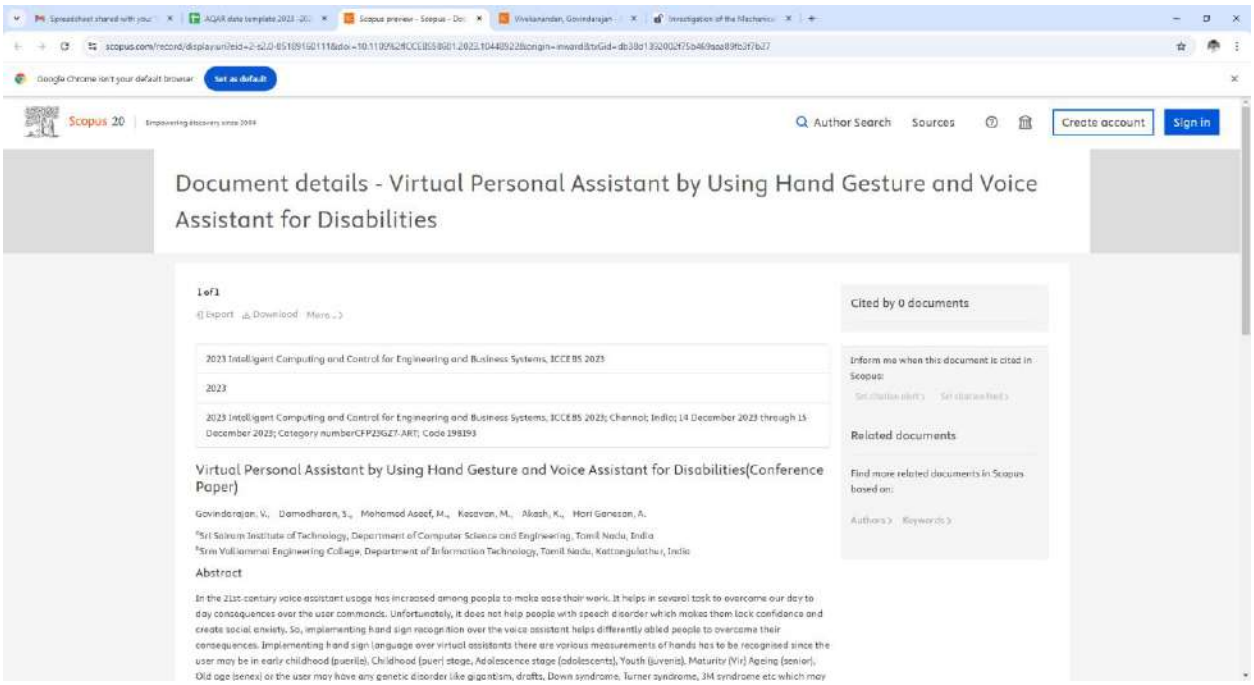

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Virtual Personal Assistant by Using Hand Gesture and Voice Assistant for Disabilities(Conference Paper)

Govindarajan, V., Damodharan, S., Mohamed Asaef, M., Kesavan, M., Akash, K., Hari Ganesan, A.

[a]Sri Sairam Institute of Technology, Department of Computer Science and Engineering, Tamil Nadu, India
[b]Sree Vidyanikethan Engineering College, Department of Information Technology, Tamil Nadu, Kottangulathur, India

Abstract

In the 21st century voice assistant usage has increased among people to make ease their work. It helps in several task to overcome our day to day consequences over the user commands. Unfortunately, it does not help people with speech disorder which makes them lack confidence and create social anxiety. So, implementing hand sign recognition over the voice assistant helps differently abled people to overcome their consequences. Implementing hand sign language over virtual assistants there are various measurements of hands has to be recognised since the user may be in early childhood (puerile), Childhood (puer) stage, Adolescence stage (adolescents), Youth (juvenis), Maturity (Vir) Ageing (senior), Old age (senex) or the user may have any genetic disorder like gigantism, drafts, Down syndrome, Turner syndrome, 3M syndrome etc which may

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Volume 11, Issue 6, June 2023, Article number 1681

Decision Models for Selection of Industrial Robots—A Comprehensive Comparison of Multi-Criteria Decision Making(Article)(Open Access)

Shanmugasundar, G., Kalita, K., Čep, R., Chohan, J.S.

[a]Department of Mechanical Engineering, Sri Sairam Institute of Technology, Chennai, 600 044, India
[b]Department of Mechanical Engineering, Vel Tech Rangarajan Dr. Sagunthala RD Institute of Science and Technology, Avadi, 600 062, India
[c]Department of Machining, Assembly and Engineering Metrology, Faculty of Mechanical Engineering, VSB-Technical University of Ostrava, Ostrava, 708 00, Czech Republic

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Abstract

Due to increased demands of production capacity and higher quality requirements, industries are automating at a fast pace. Industrial robots are an important component of the industrial automation ecosystem. However, the selection of appropriate robots is a challenging task due to the sheer number of alternatives present and their varied specifications. The various characteristics or attributes of industrial robots that need due consideration before selection of an optimal robot for a given application are found to be conflicting in nature. Thus, in this paper, several

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A critical review and systematic design approach for innovative upper-limb rehabilitation devices
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Tran, N.-T. , Trinh, V.-L. , Chung, C.-K.
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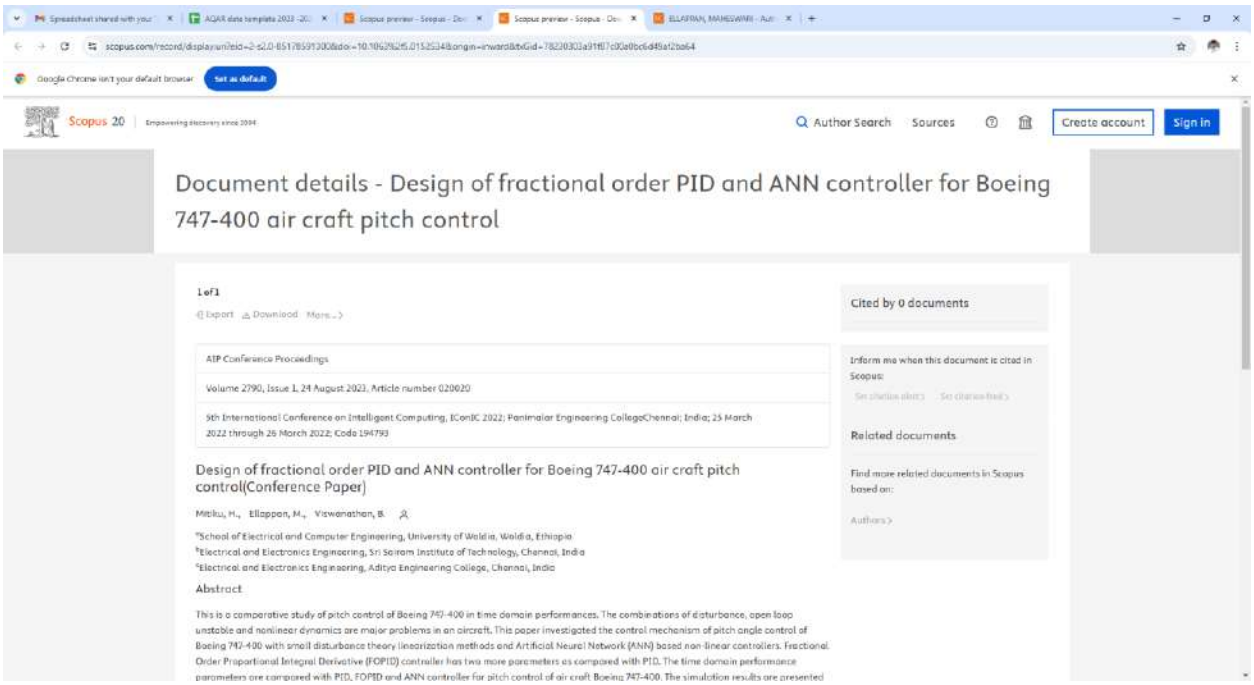
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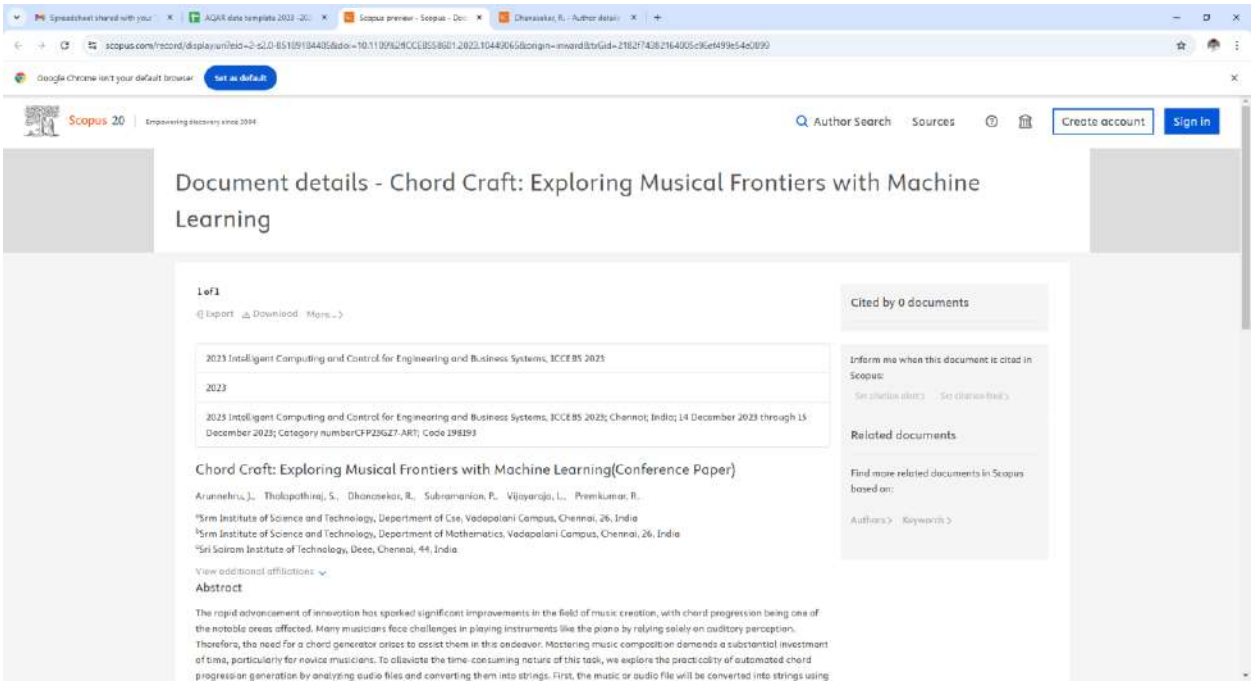
Design of fractional order PID and ANN controller for Boeing 747-400 air craft pitch control(Conference Paper)
Mitiku, H., Eliappan, M., Viswanathan, B.
[a]School of Electrical and Computer Engineering, University of Woldia, Woldia, Ethiopia
[b]Electrical and Electronics Engineering, Sri Sairam Institute of Technology, Chennai, India
[c]Electrical and Electronics Engineering, Aditya Engineering College, Chennai, India
Abstract
This is a comparative study of pitch control of Boeing 747-400 in time domain performances. The combinations of disturbance, open loop unstable and nonlinear dynamics are major problems in an aircraft. This paper investigated the control mechanism of pitch angle control of Boeing 747-400 with small disturbance theory linearization methods and Artificial Neural Network (ANN) based non-linear controllers. Fractional Order Proportional Integral Derivative (FOPID) controller has two more parameters as compared with PID. The time domain performance parameters are compared with PID, FOPID and ANN controller for pitch control of air craft Boeing 747-400. The simulation results are presented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[a]Srm Institute of Science and Technology, Department of Cse, Vadapalani Campus, Chennai, 26, India
[b]Srm Institute of Science and Technology, Department of Mathematics, Vadapalani Campus, Chennai, 26, India
[c]Sri Sairam Institute of Technology, Dece, Chennai, 44, India
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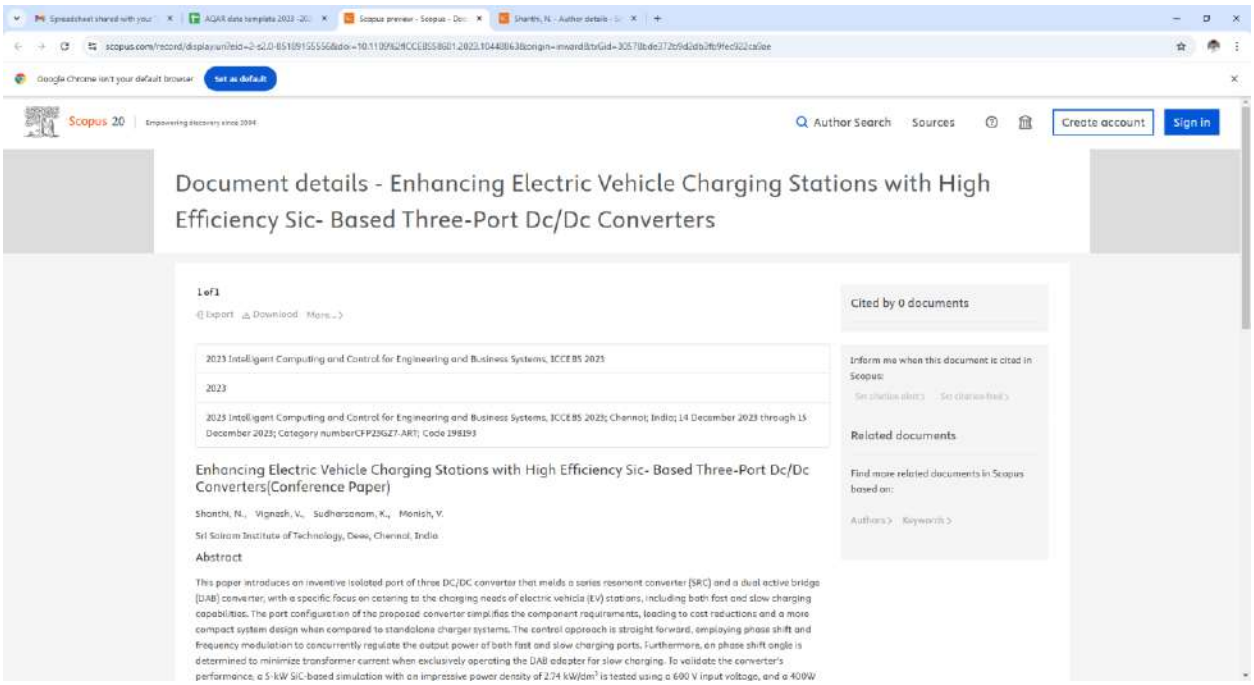
Abstract
The rapid advancement of innovation has sparked significant improvements in the field of music creation, with chord progression being one of the notable areas affected. Many musicians face challenges in playing instruments like the piano by relying solely on auditory perception. Therefore, the need for a chord generator arises to assist them in this endeavor. Mastering music composition demands a substantial investment of time, particularly for novice musicians. To alleviate the time-consuming nature of this task, we explore the practicality of automated chord progression generation by analyzing audio files and converting them into strings. First, the music or audio file will be converted into strings using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Enhancing Electric Vehicle Charging Stations with High Efficiency Sic- Based Three-Port Dc/Dc Converters(Conference Paper)
Shanthi, N., Vignash, V., Sudharsanam, K., Monish, V.
Sri Sairam Institute of Technology, Deee, Chennai, India
Abstract
This paper introduces an inventive isolated port of three DC/DC converter that melds a series resonant converter (SRC) and a dual active bridge (DAB) converter, with a specific focus on catering to the charging needs of electric vehicle (EV) stations, including both fast and slow charging capabilities. The port configuration of the proposed converter simplifies the component requirements, leading to cost reductions and a more compact system design when compared to standalone charger systems. The control approach is straight forward, employing phase shift and frequency modulation to concurrently regulate the output power of both fast and slow charging ports. Furthermore, on phase shift angle is determined to minimize transformer current when exclusively operating the DAB adapter for slow charging. To validate the converter's performance, a 5-kW SiC-based simulation with an impressive power density of 2.74 kW/dm³ is tested using a 600 V input voltage, and a 400W
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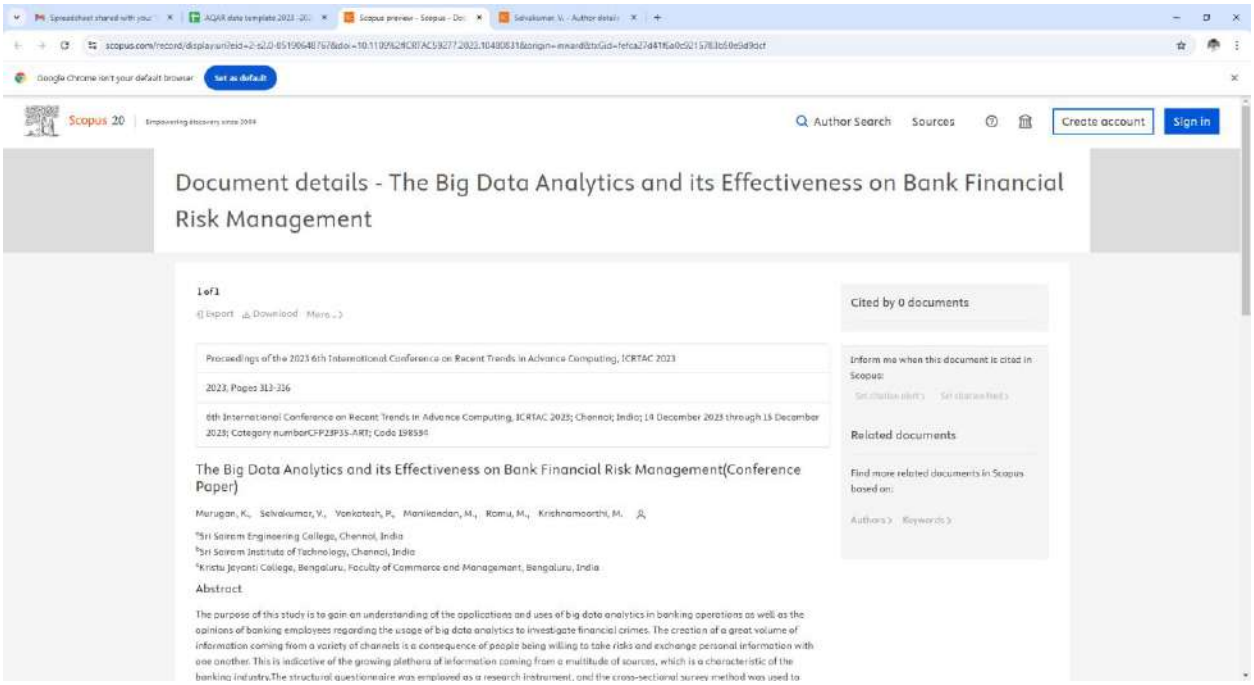
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6th International Conference on Recent Trends in Advance Computing, ICRTAC 2023; Chennai; India; 14 December 2023 through 15 December 2023; Category numberCFP23P3S-ART; Code 198594
The Big Data Analytics and its Effectiveness on Bank Financial Risk Management(Conference Paper)
Murugan, K., Selvakumar, V., Venkatesh, P., Manikandan, M., Ramu, M., Krishnamoorthi, M.
[a]Sri Sairam Engineering College, Chennai, India
[b]Sri Sairam Institute of Technology, Chennai, India
[c]Kristu Jayanti College, Bengaluru, Faculty of Commerce and Management, Bengaluru, India
Abstract
The purpose of this study is to gain an understanding of the applications and uses of big data analytics in banking operations as well as the opinions of banking employees regarding the usage of big data analytics to investigate financial crimes. The creation of a great volume of information coming from a variety of channels is a consequence of people being willing to take risks and exchange personal information with one another. This is indicative of the growing plethora of information coming from a multitude of sources, which is a characteristic of the banking industry.The structural questionnaire was employed as a research instrument, and the cross-sectional survey method was used to
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Innovations in Wearable Radio Frequency Technology: Designing for Connectivity(Conference Paper)
Paramaswari, S., Rajasekar, A., Divya, K., Waghalkar, S., Ashok, P., Soundara Rajan, C.
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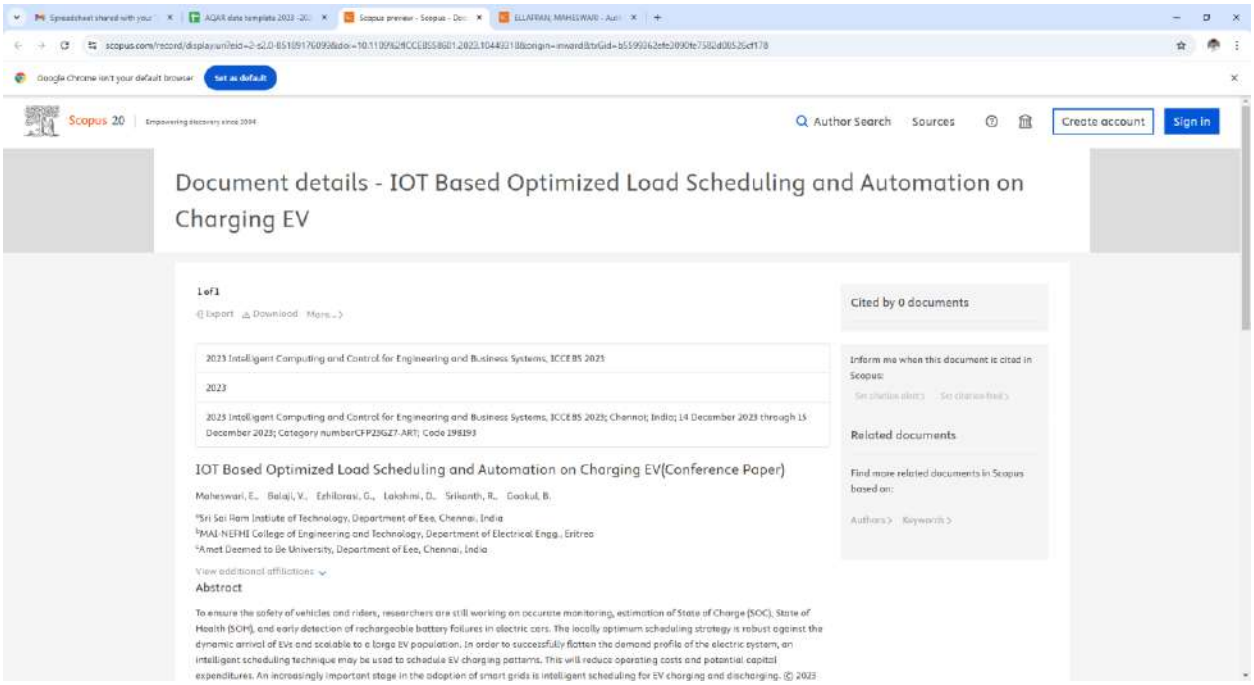
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IOT Based Optimized Load Scheduling and Automation on Charging EV(Conference Paper)
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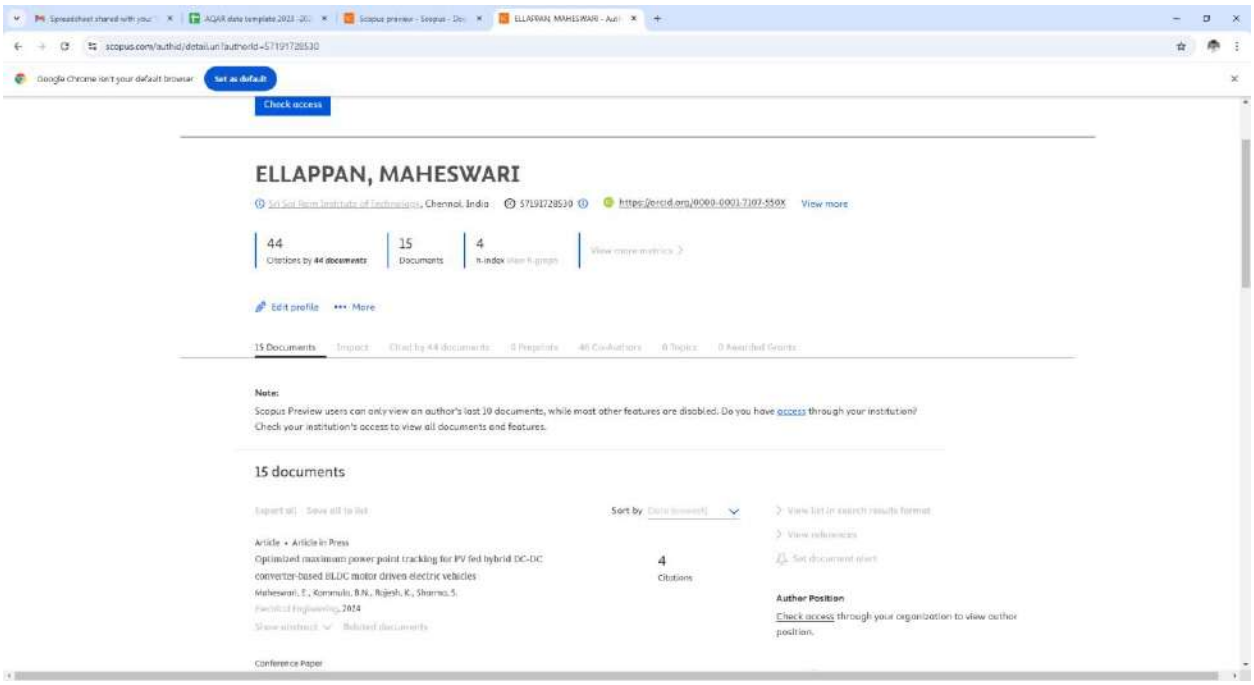
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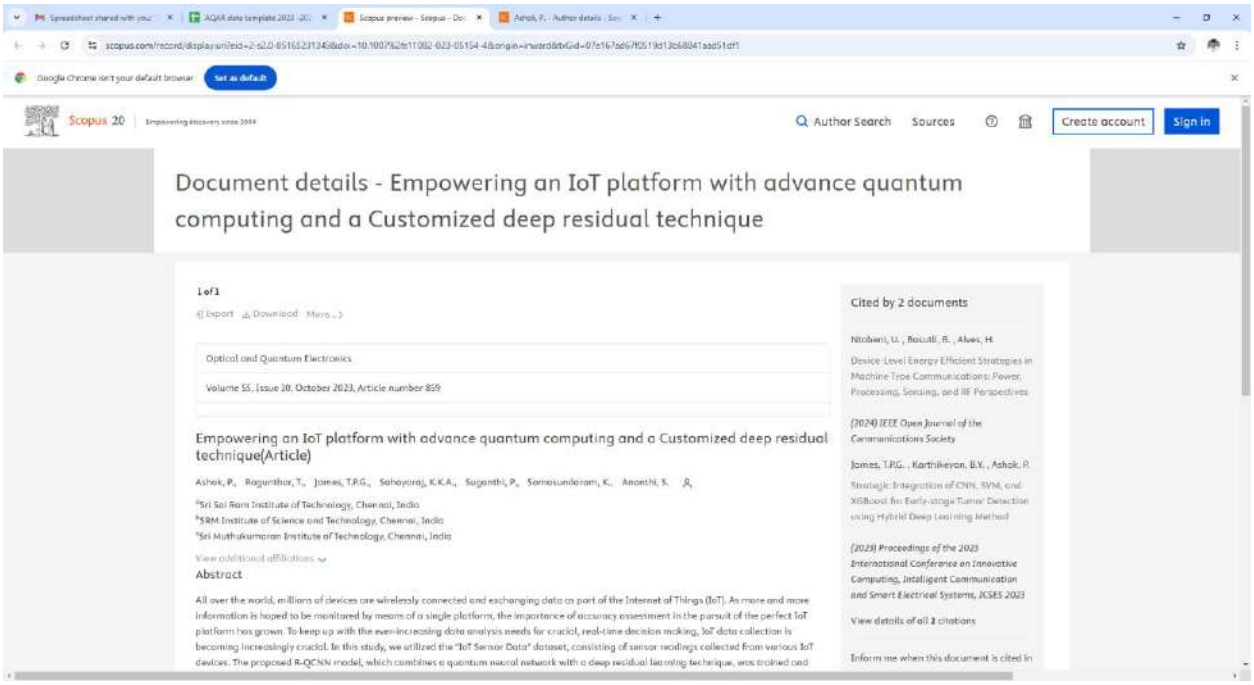
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Ashok, P., Raguntha, T., James, T.P.G., Sahayaraj, K.K.A., Sugenthi, P., Somasundaram, K., Amanthi, S.
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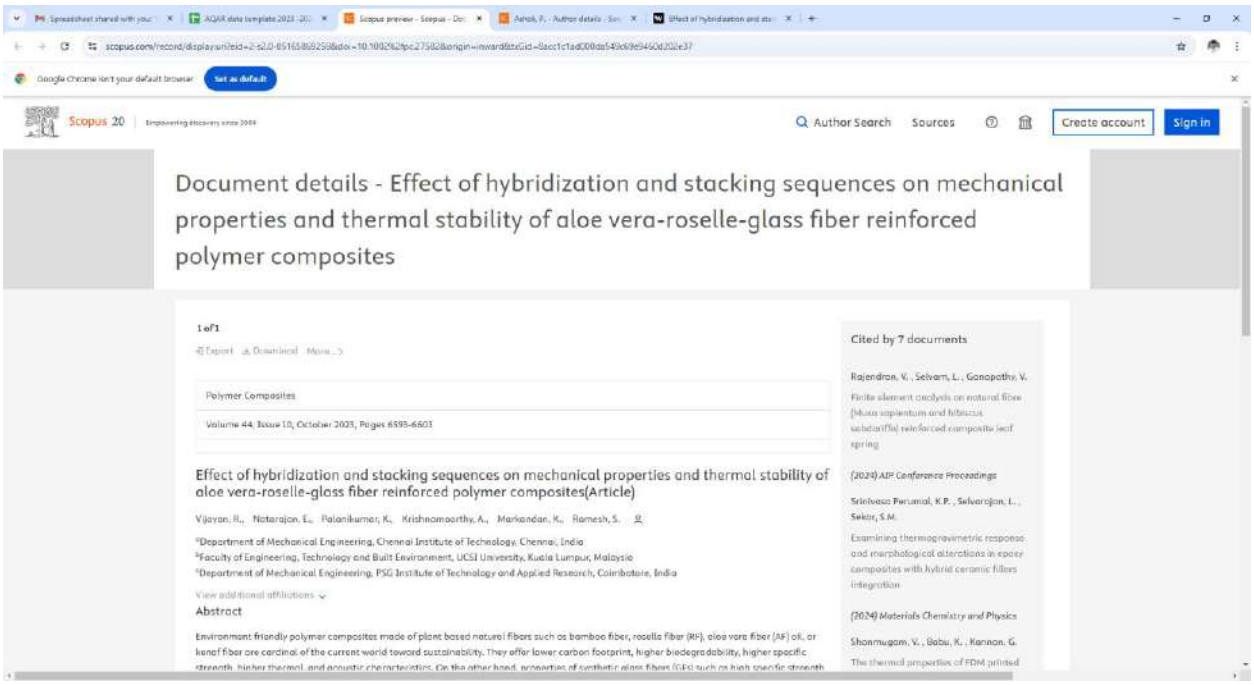
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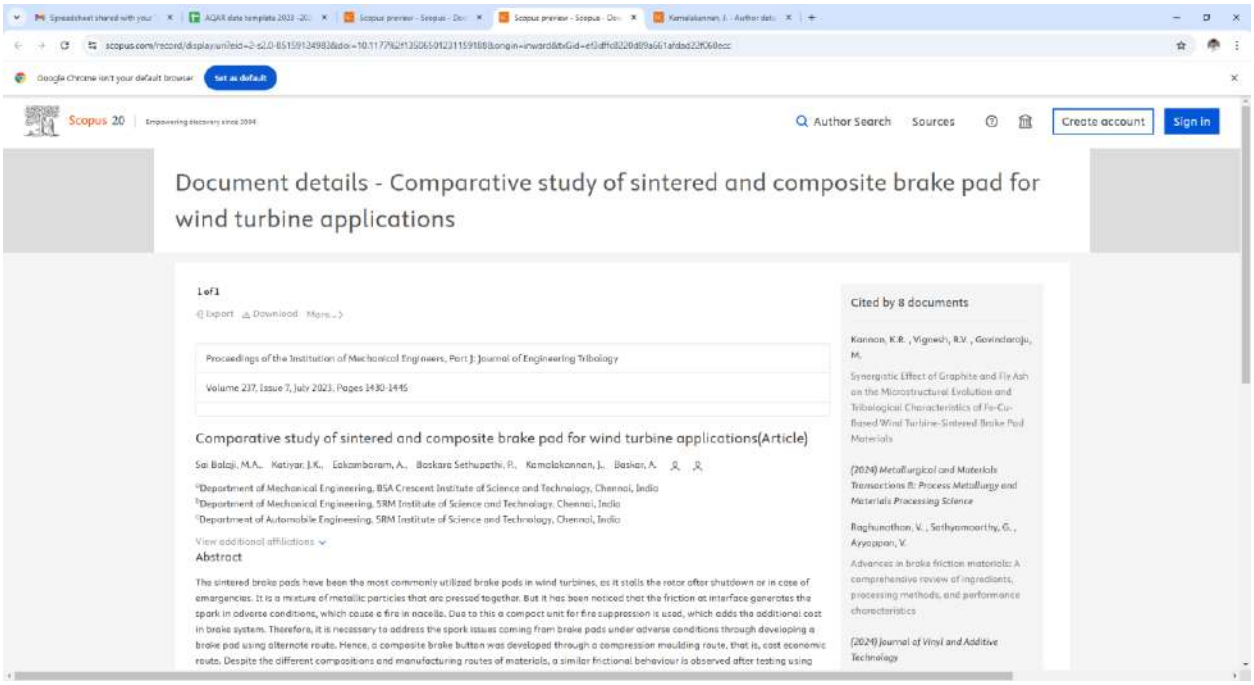
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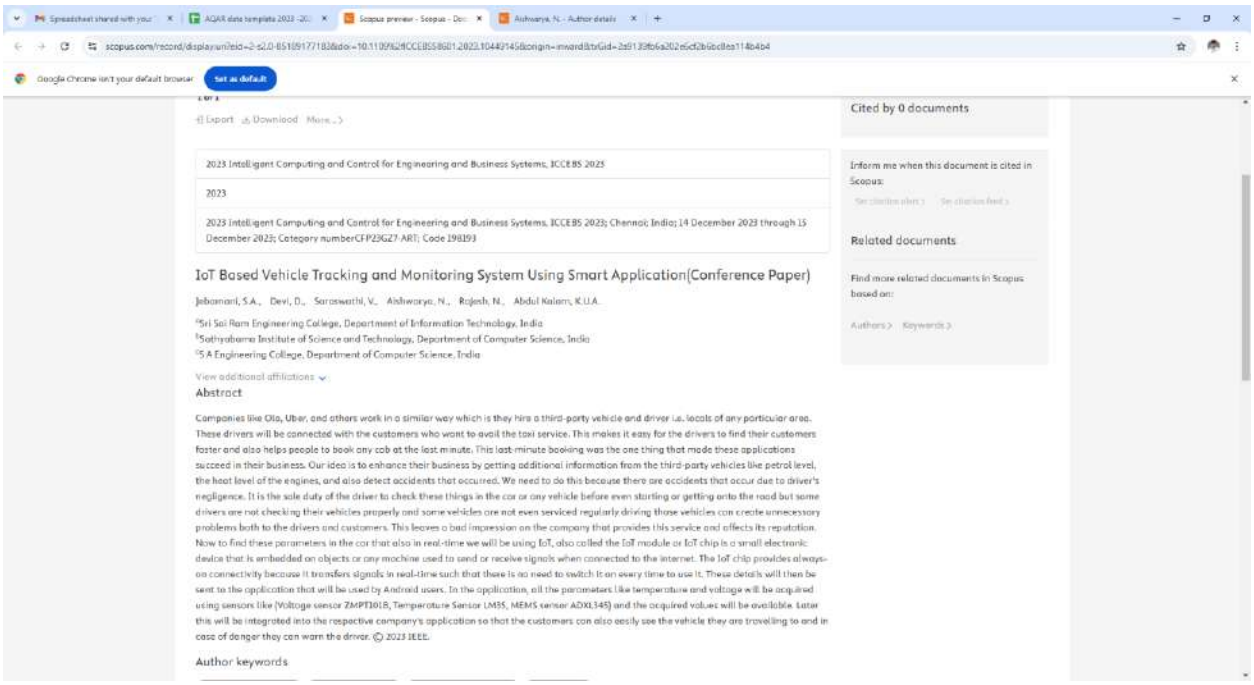

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IoT Based Vehicle Tracking and Monitoring System Using Smart Application(Conference Paper)

Jebamani, S.A., Devi, D., Saraswathi, V., Aishwarya, N., Rajesh, N., Abdul Kalam, K.U.A.

[a]Sri Sai Ram Engineering College, Department of Information Technology, India
[b]Sathyabama Institute of Science and Technology, Department of Computer Science, India
[c]S A Engineering College, Department of Computer Science, India

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Abstract

Companies like Ola, Uber, and others work in a similar way which is they hire a third-party vehicle and driver i.e. locals of any particular area. These drivers will be connected with the customers who want to avail the taxi service. This makes it easy for the drivers to find their customers faster and also helps people to book any cab at the last minute. This last-minute booking was the one thing that made these applications succeed in their business. Our idea is to enhance their business by getting additional information from the third-party vehicles like petrol level, the heat level of the engines, and also detect accidents that occurred. We need to do this because there are accidents that occur due to driver's negligence. It is the sole duty of the driver to check these things in the car or any vehicle before even starting or getting onto the road but some drivers are not checking their vehicles properly and some vehicles are not even serviced regularly driving those vehicles can create unnecessary problems both to the drivers and customers. This leaves a bad impression on the company that provides this service and affects its reputation. Now to find these parameters in the car that also in real-time we will be using IoT, also called the IoT module or IoT chip is a small electronic device that is embedded on objects or any machine used to send or receive signals when connected to the internet. The IoT chip provides always-on connectivity because it transfers signals in real-time such that there is no need to switch it on every time to use it. These details will then be sent to the application that will be used by Android users. In the application, all the parameters like temperature and voltage will be acquired using sensors like (Voltage sensor ZMPT101B, Temperature Sensor LM35, MEMS sensor ADXL345) and the acquired values will be available. Later this will be integrated into the respective company's application so that the customers can also easily see the vehicle they are traveling to and in case of danger they can warn the driver. © 2023 IEEE.

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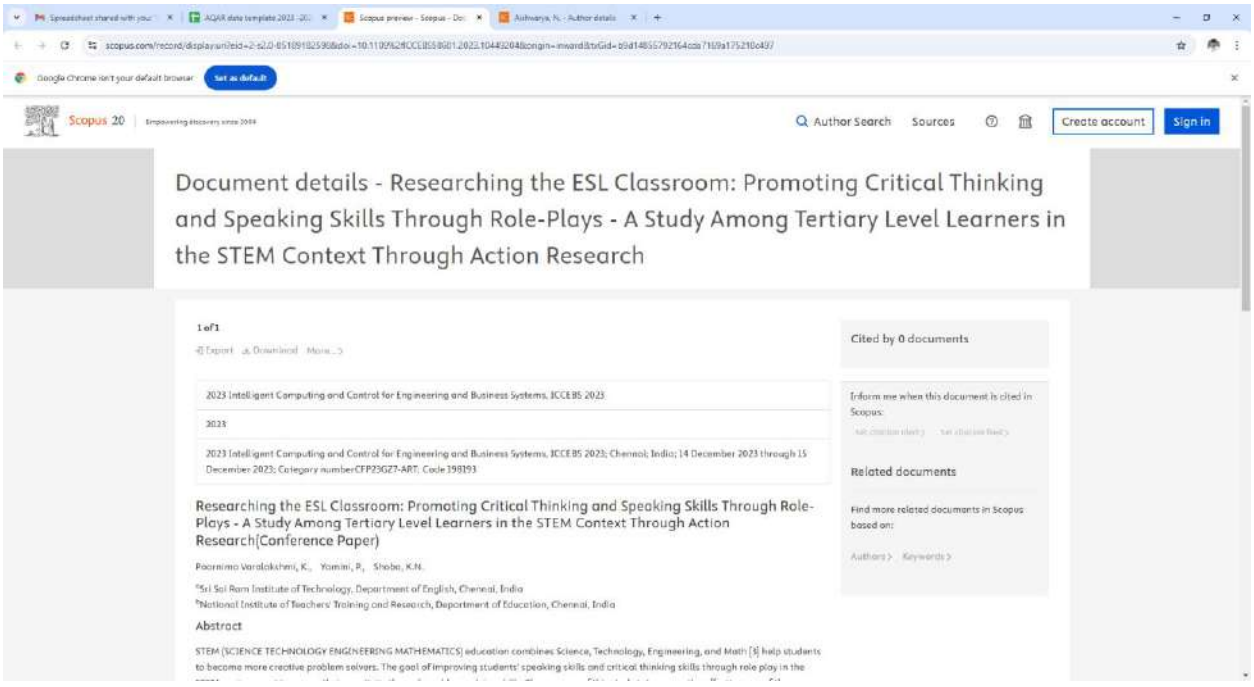

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Researching the ESL Classroom: Promoting Critical Thinking and Speaking Skills Through Role-Plays - A Study Among Tertiary Level Learners in the STEM Context Through Action Research(Conference Paper)

Poornima Varalakshmi, K., Yamini, P., Shoba, K.N.

[a]Sri Sai Ram Institute of Technology, Department of English, Chennai, India
[b]National Institute of Teachers' Training and Research, Department of Education, Chennai, India

Abstract

STEM (SCIENCE TECHNOLOGY ENGINEERING MATHEMATICS) education combines Science, Technology, Engineering, and Math [1] help students to become more creative problem solvers. The goal of improving students' speaking skills and critical thinking skills through role play in the

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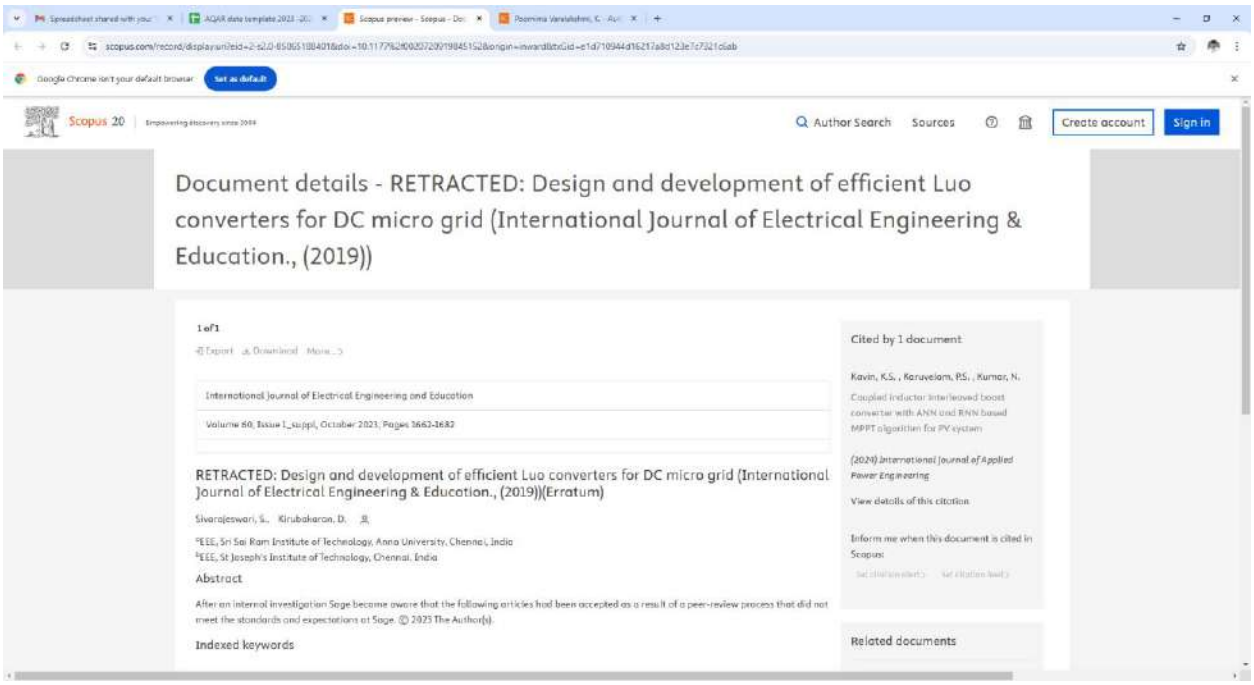
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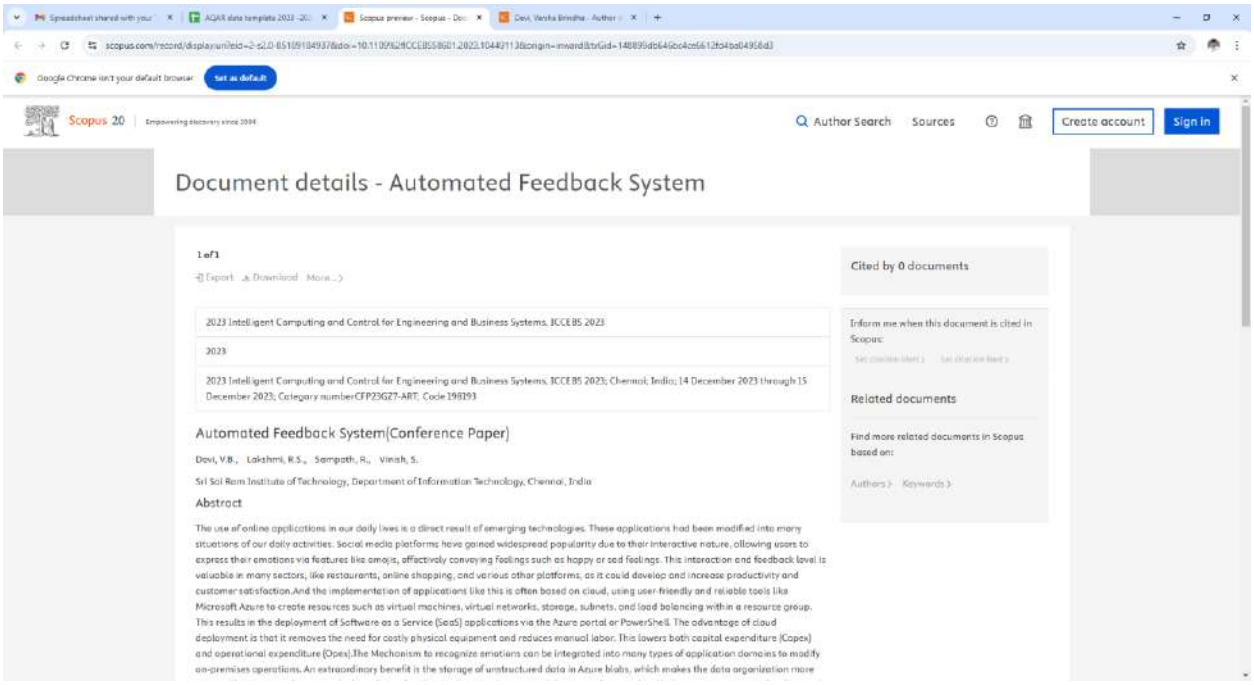
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Automated Feedback System(Conference Paper)
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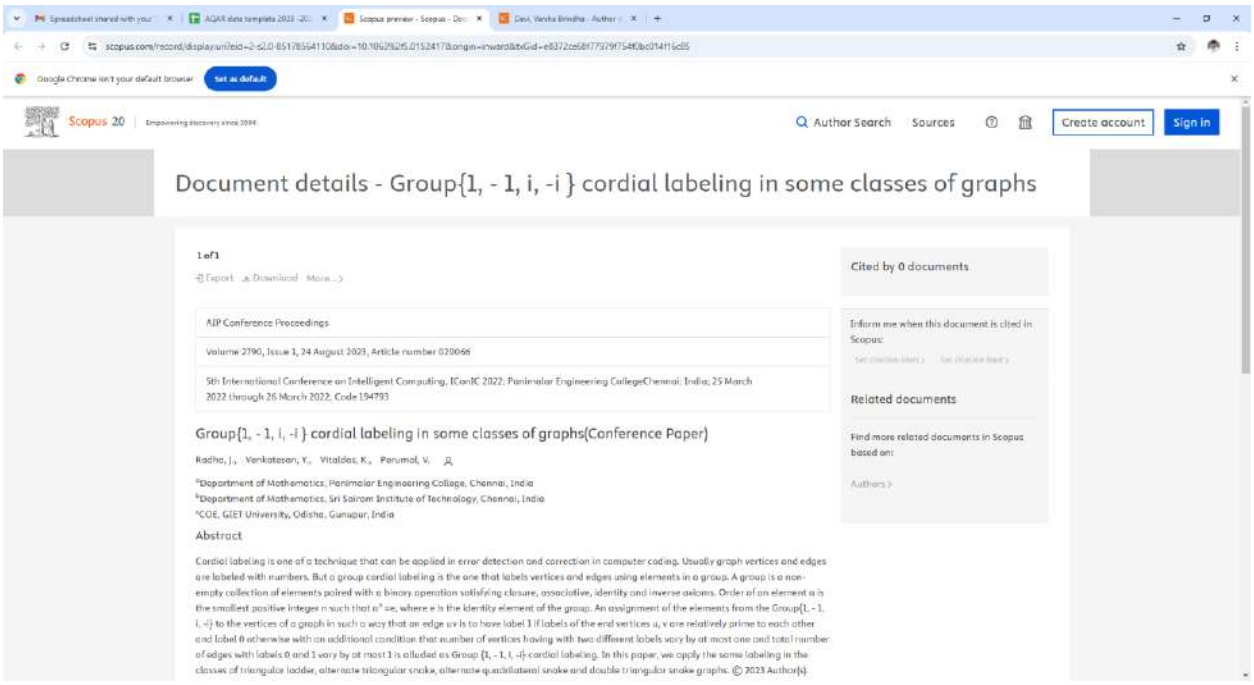
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Group{1, - 1, i, -i } cordial labeling in some classes of graphs(Conference Paper)
Radha, J., Venkatesan, Y., Vitaldas, K., Perumal, V.
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Cordial labeling is one of a technique that can be applied in error detection and correction in computer coding. Usually graph vertices and edges are labeled with numbers. But a group cordial labeling is the one that labels vertices and edges using elements in a group. A group is a non-empty collection of elements paired with a binary operation satisfying closure, associative, identity and inverse axioms. Order of an element a is the smallest positive integer n such that a^n=e, where e is the identity element of the group. An assignment of the elements from the Group{1, - 1, i, -i} to the vertices of a graph in such a way that an edge uv is to have label 1 if labels of the end vertices u, v are relatively prime to each other and label 0 otherwise with an additional condition that number of vertices having with two different labels vary by at most one and total number of edges with labels 0 and 1 vary by at most 1 is alluded as Group {1, - 1, i, -i}-cordial labeling. In this paper, we apply the same labeling in the classes of triangular ladder, alternate triangular snake, alternate quadrilateral snake and double triangular snake graphs. © 2023 Author(s).
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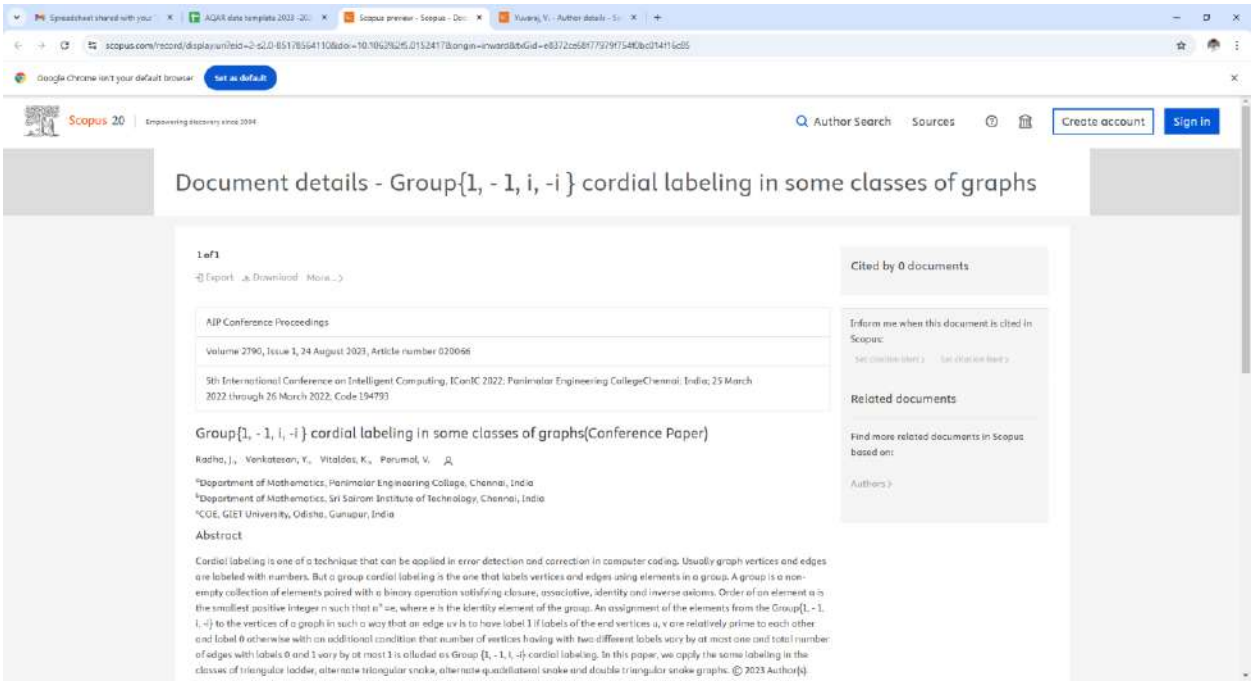
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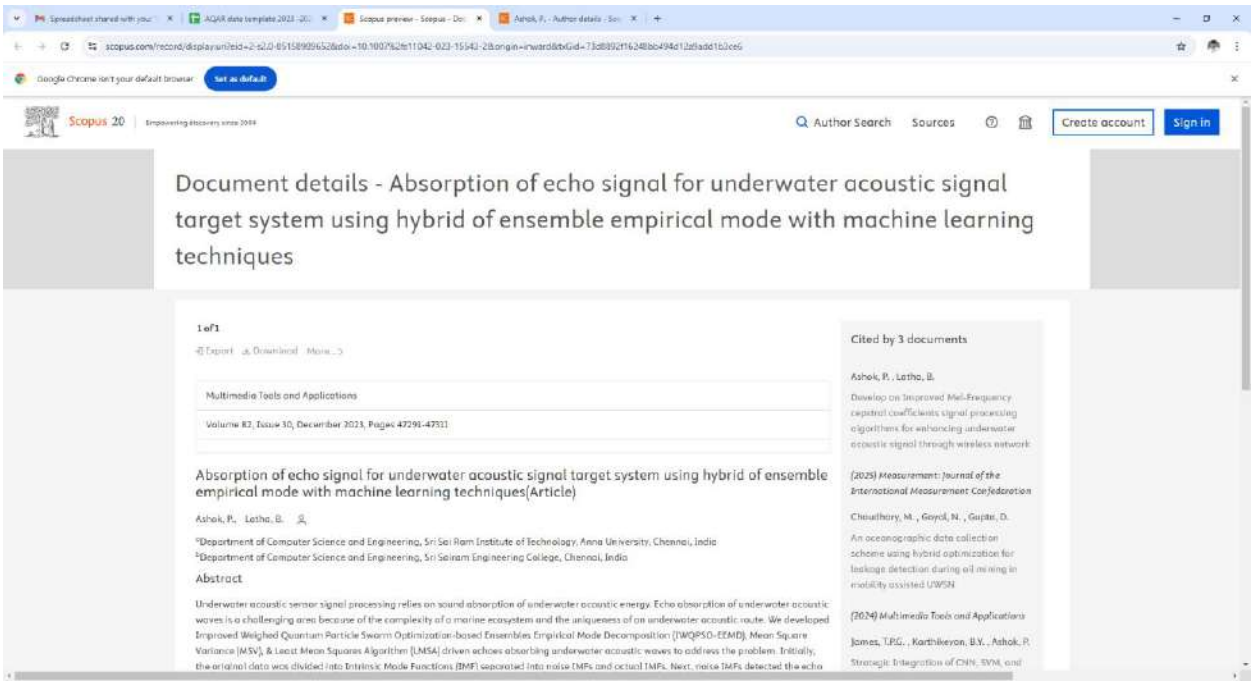
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Ashok, P., Latha, B.
Department of Computer Science and Engineering, Sri Sai Ram Institute of Technology, Anna University, Chennai, India
Department of Computer Science and Engineering, Sri Sairam Engineering College, Chennai, India
Abstract
Underwater acoustic sensor signal processing relies on sound absorption of underwater acoustic energy. Echo absorption of underwater acoustic waves is a challenging area because of the complexity of a marine ecosystem and the uniqueness of an underwater acoustic route. We developed Improved Weighed Quantum Particle Swarm Optimization-based Ensembles Empirical Mode Decomposition (IWQPSO-EEMD), Mean Square Variance (MSV), & Least Mean Squares Algorithm (LMSA) driven echoes absorbing underwater acoustic waves to address the problem. Initially, the original data was divided into Intrinsic Mode Functions (IMF) separated into noise IMFs and actual IMFs. Next, noise IMFs detected the echo
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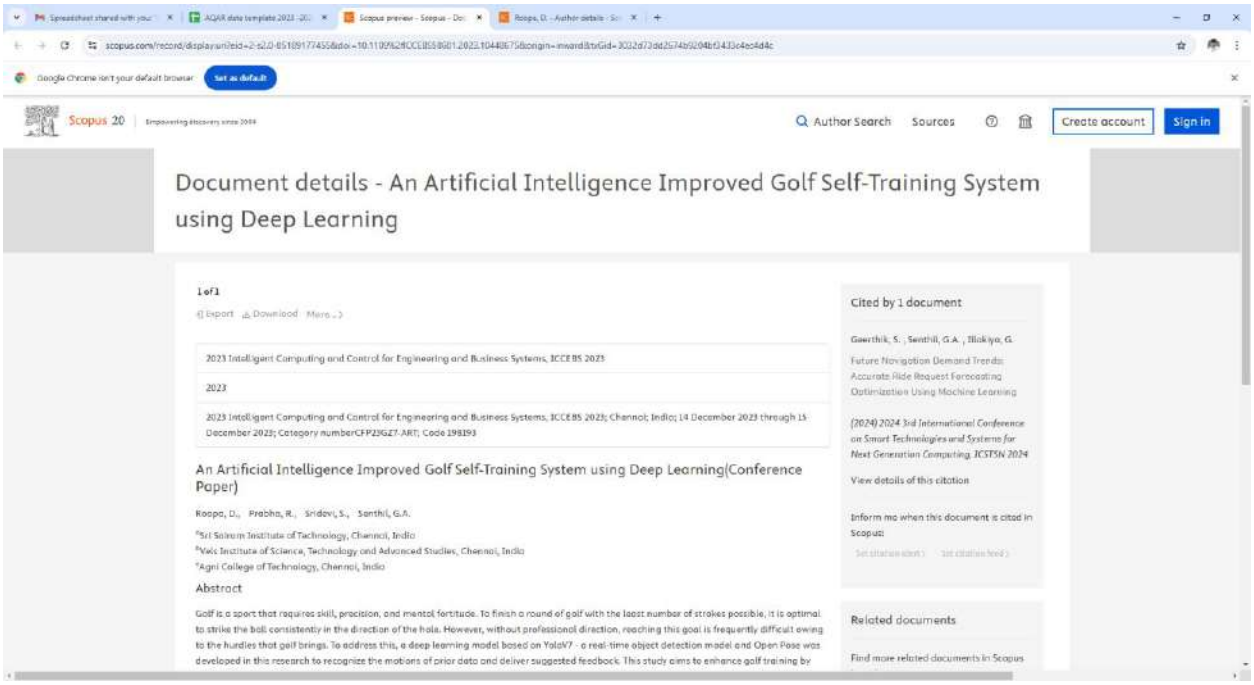
Strategic Integration of CNN, SVM, and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An Artificial Intelligence Improved Golf Self-Training System using Deep Learning(Conference Paper)
Roopa, D., Prabha, R., Sridevi, S., Senthil, G.A.
Sri Sairam Institute of Technology, Chennai, India
Vels Institute of Science, Technology and Advanced Studies, Chennai, India
Agni College of Technology, Chennai, India
Abstract
Golf is a sport that requires skill, precision, and mental fortitude. To finish a round of golf with the least number of strokes possible, it is optimal to strike the ball consistently in the direction of the hole. However, without professional direction, reaching this goal is frequently difficult owing to the hurdles that golf brings. To address this, a deep learning model based on YoloV7 - a real-time object detection model and Open Pose was developed in this research to recognize the motions of prior data and deliver suggested feedback. This study aims to enhance golf training by
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Future Navigation Demand Trends: Accurate Ride Request Forecasting Optimization Using Machine Learning
(2024) 2024 3rd International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN 2024
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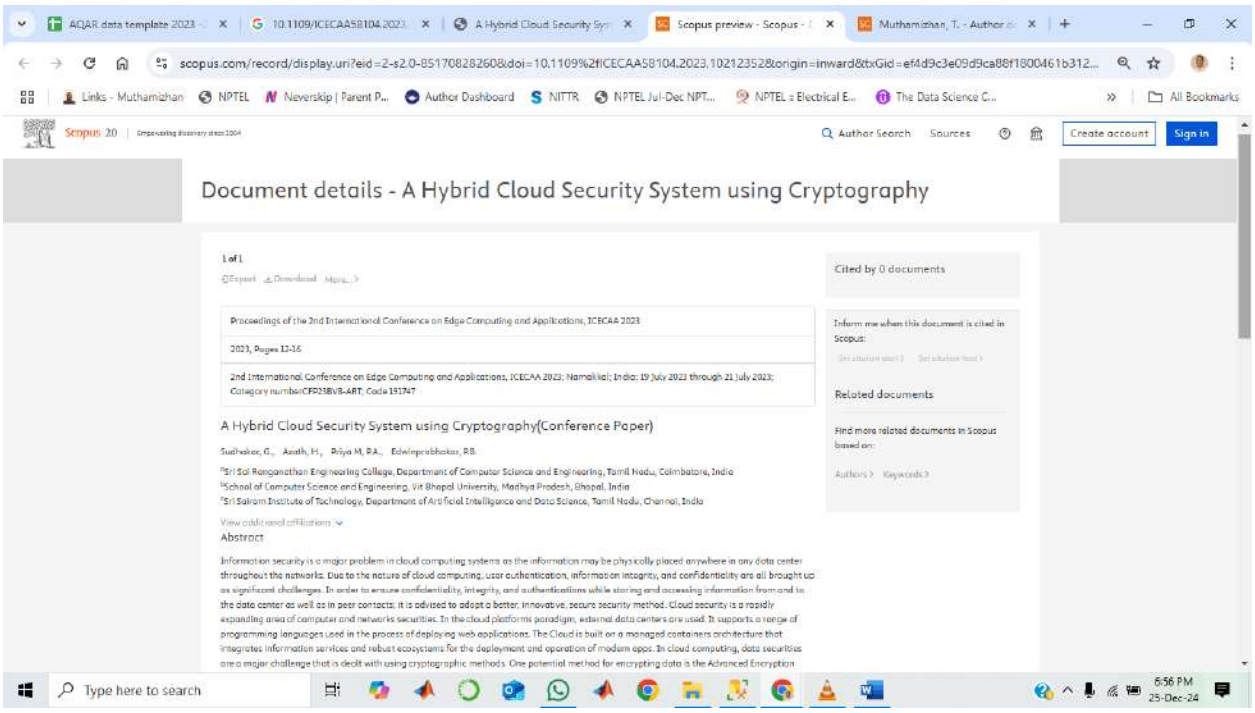
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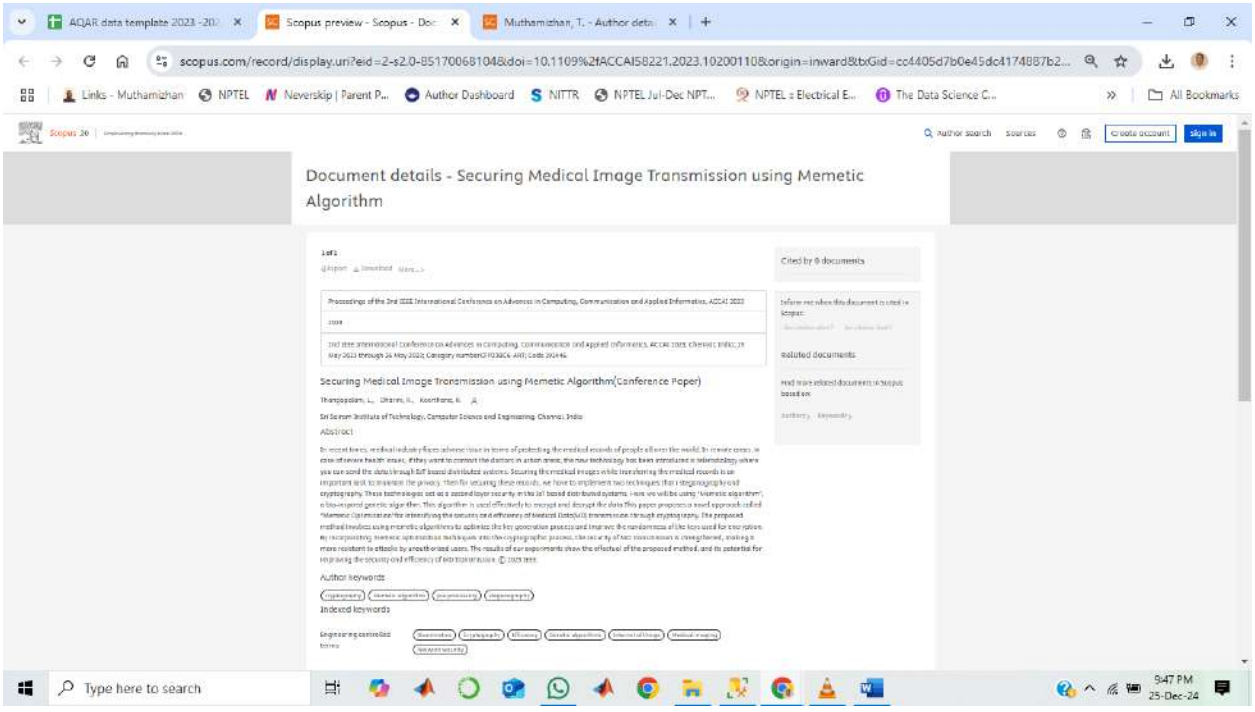
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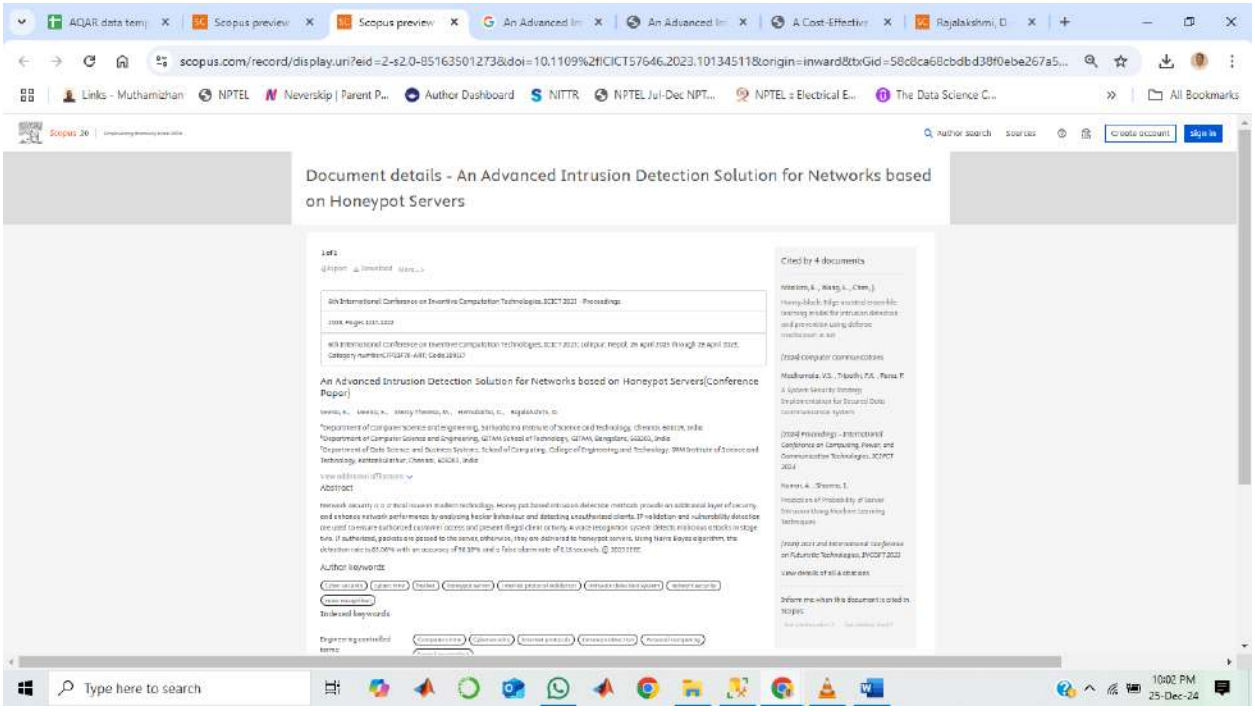
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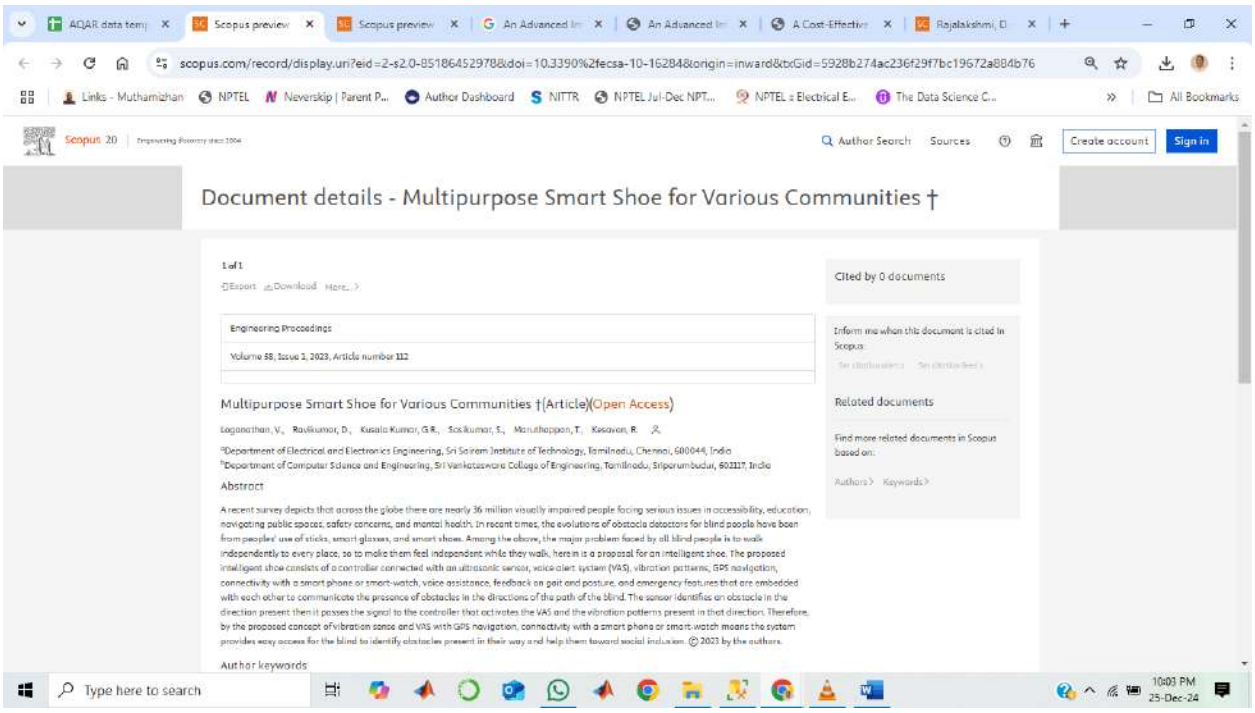
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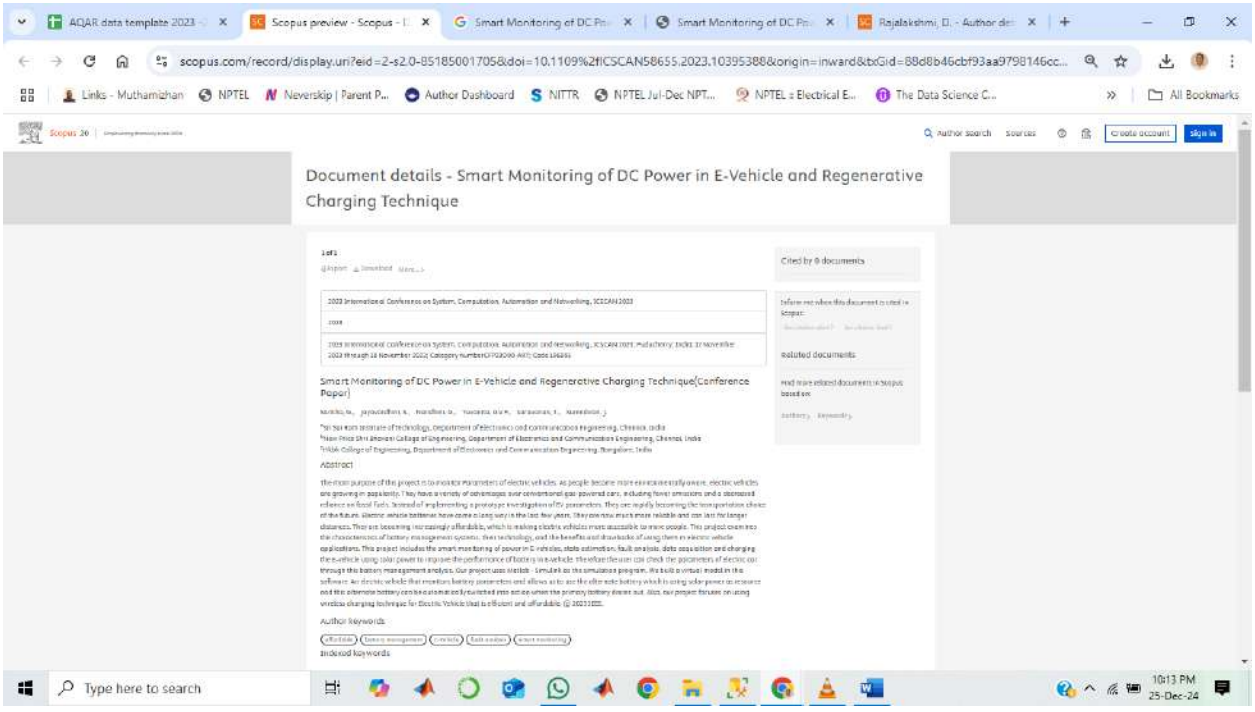
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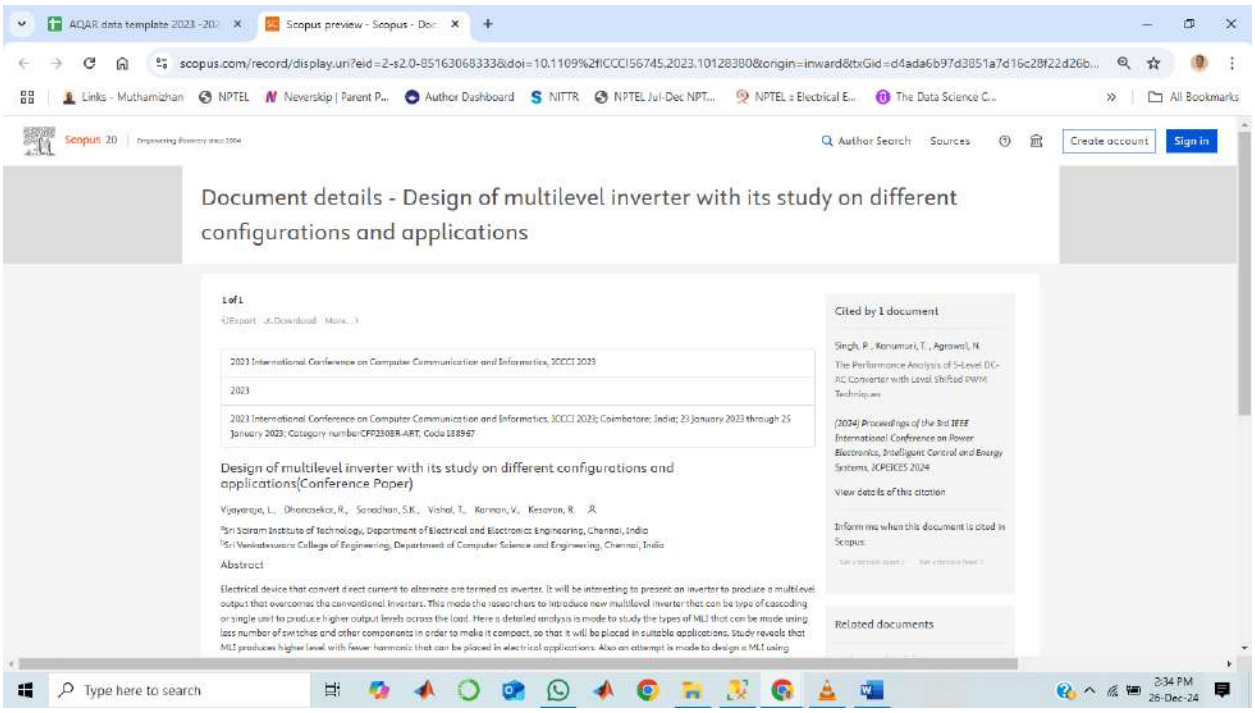
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Design of multilevel inverter with its study on different configurations and applications(Conference Paper)
Vijayaraja, L., Dhanasekar, R., Sanadhan, S.K., Vishal, T., Raman, V., Kesavan, R.
Sri Sairam Institute of Technology, Department of Electrical and Electronics Engineering, Chennai, India
Sri Venkateswara College of Engineering, Department of Computer Science and Engineering, Chennai, India
Abstract
Electrical device that convert direct current to alternate are termed as inverter. It will be interesting to present an inverter to produce a multilevel output that overcomes the conventional inverters. This made the researchers to introduce new multilevel inverter that can be type of cascading or single unit to produce higher output levels across the load. Here a detailed analysis is made to study the types of MLI that can be made using less number of switches and other components in order to make it compact, so that it will be placed in suitable applications. Study reveals that MLI produces higher level with fewer harmonic that can be placed in electrical applications. Also an attempt is made to design a MLI using
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Singh, P., Konumuri, T., Agrawal, N.
The Performance Analysis of 5-Level DC-AC Converter with Level Shifted PWM Techniques
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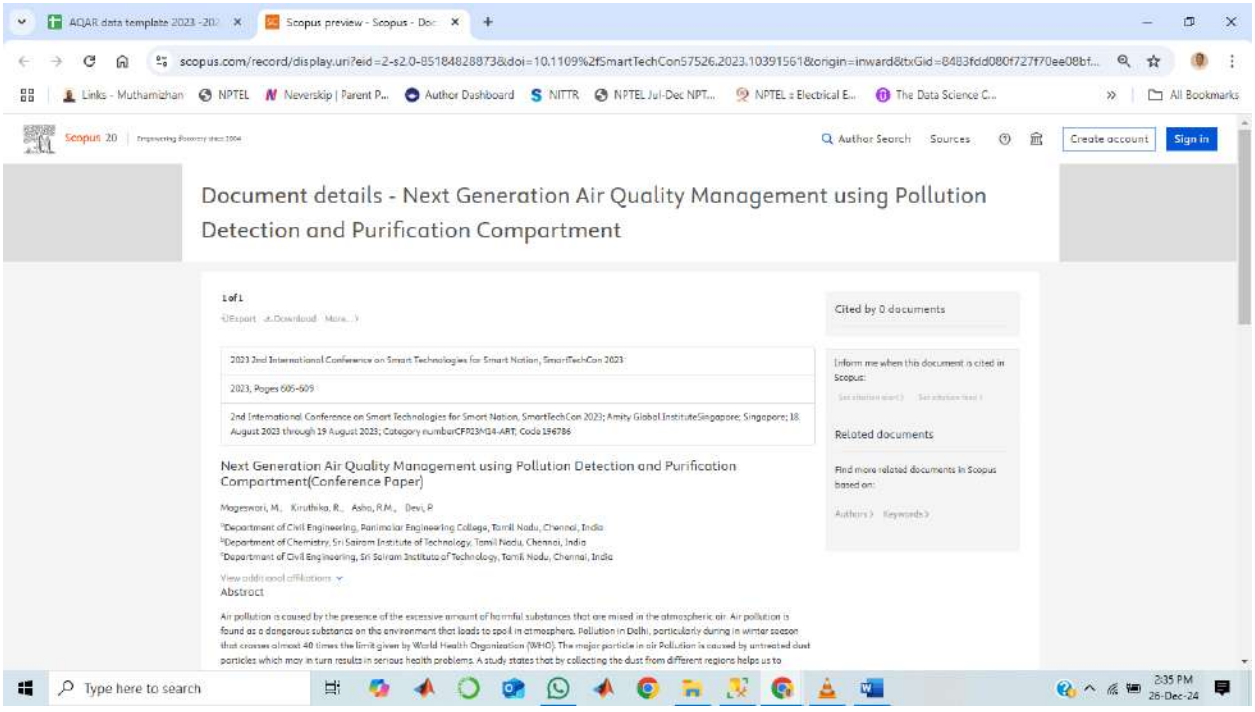
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2nd International Conference on Smart Technologies for Smart Nation, SmartTechCon 2023; Amity Global InstituteSingapore; Singapore; 18 August 2023 through 19 August 2023; Category numberCFP23M34-ART; Code 196786
Next Generation Air Quality Management using Pollution Detection and Purification Compartment(Conference Paper)
Mageswari, M., Kiruthika, R., Asha, R.M., Devi, P
Department of Civil Engineering, Panimalar Engineering College, Tamil Nadu, Chennai, India
Department of Chemistry, Sri Sairam Institute of Technology, Tamil Nadu, Chennai, India
Department of Civil Engineering, Sri Sairam Institute of Technology, Tamil Nadu, Chennai, India
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Abstract
Air pollution is caused by the presence of the excessive amount of harmful substances that are mixed in the atmospheric air. Air pollution is found as a dangerous substance on the environment that leads to spoil in atmosphere. Pollution in Delhi, particularly during in winter season that crosses almost 40 times the limit given by World Health Organization (WHO). The major particle in air Pollution is caused by untreated dust particles which may in turn results in serious health problems. A study states that by collecting the dust from different regions helps us to
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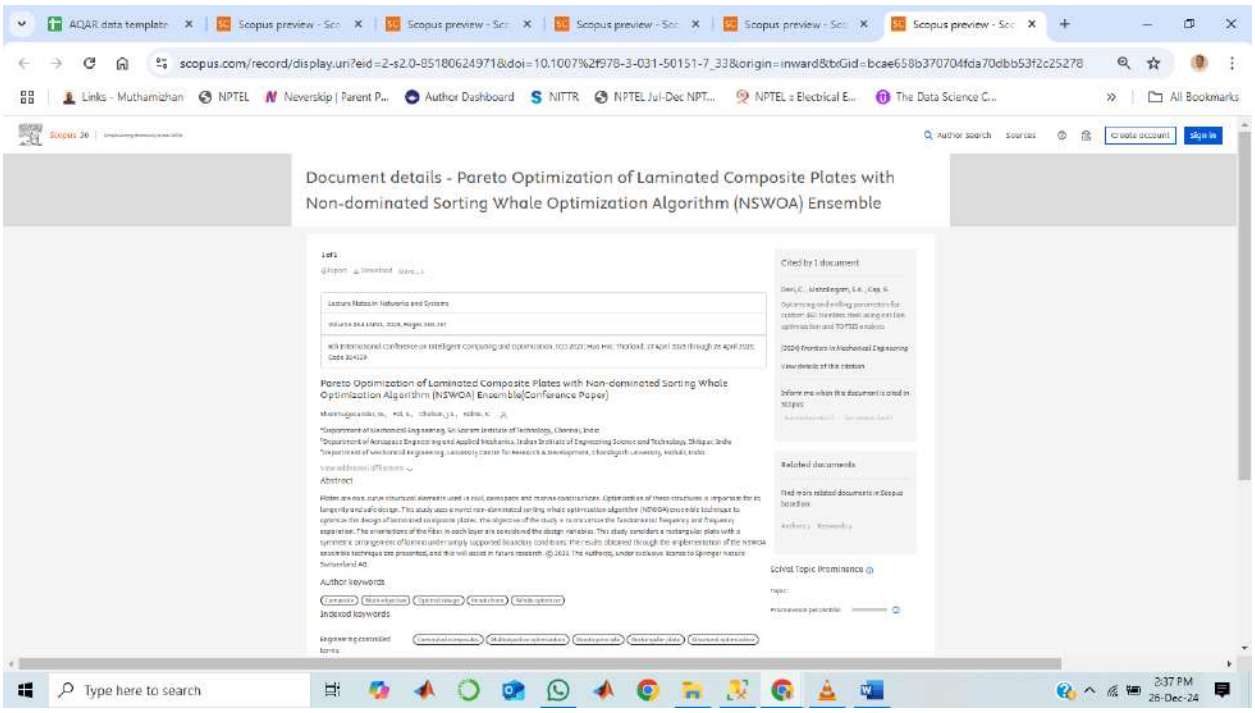
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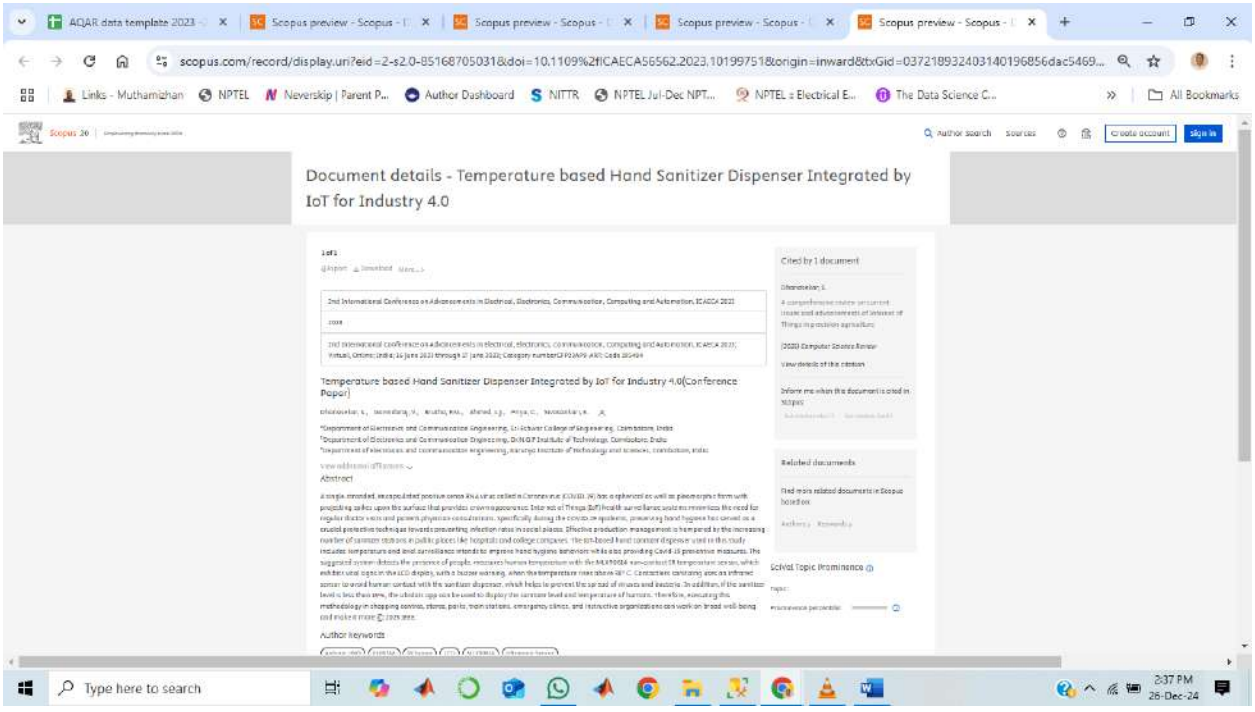
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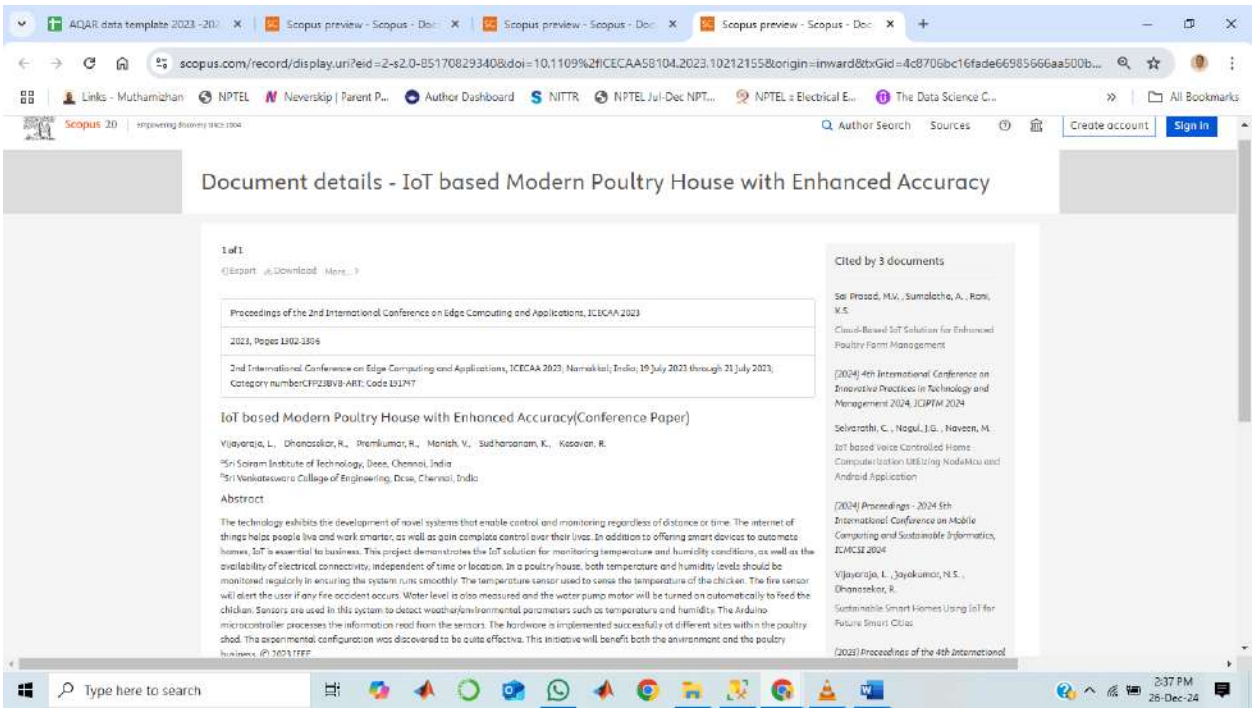

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IoT based Modern Poultry House with Enhanced Accuracy(Conference Paper)

Vijayaraja, L., Dhanasekar, R., Premkumar, R., Manish, V., Sudharsanam, K., Kesavan, R.

[a]Sri Sairam Institute of Technology, Dept., Chennai, India
[b]Sri Venkateswara College of Engineering, Dept., Chennai, India

Abstract

The technology exhibits the development of novel systems that enable control and monitoring regardless of distance or time. The internet of things helps people live and work smarter, as well as gain complete control over their lives. In addition to offering smart devices to automate homes, IoT is essential to business. This project demonstrates the IoT solution for monitoring temperature and humidity conditions, as well as the availability of electrical connectivity, independent of time or location. In a poultry house, both temperature and humidity levels should be monitored regularly in ensuring the system runs smoothly. The temperature sensor used to sense the temperature of the chicken. The fire sensor will alert the user if any fire accident occurs. Water level is also measured and the water pump motor will be turned on automatically to feed the chicken. Sensors are used in this system to detect weather/environmental parameters such as temperature and humidity. The Arduino microcontroller processes the information read from the sensors. The hardware is implemented successfully at different sites within the poultry shed. The experimental configuration was discovered to be quite effective. This initiative will benefit both the environment and the poultry business. © 2023 IEEE.

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Sai Prasad, M.V., Sumalatha, A., Rani, K.S.
Cloud-Based IoT Solution for Enhanced Poultry Farm Management

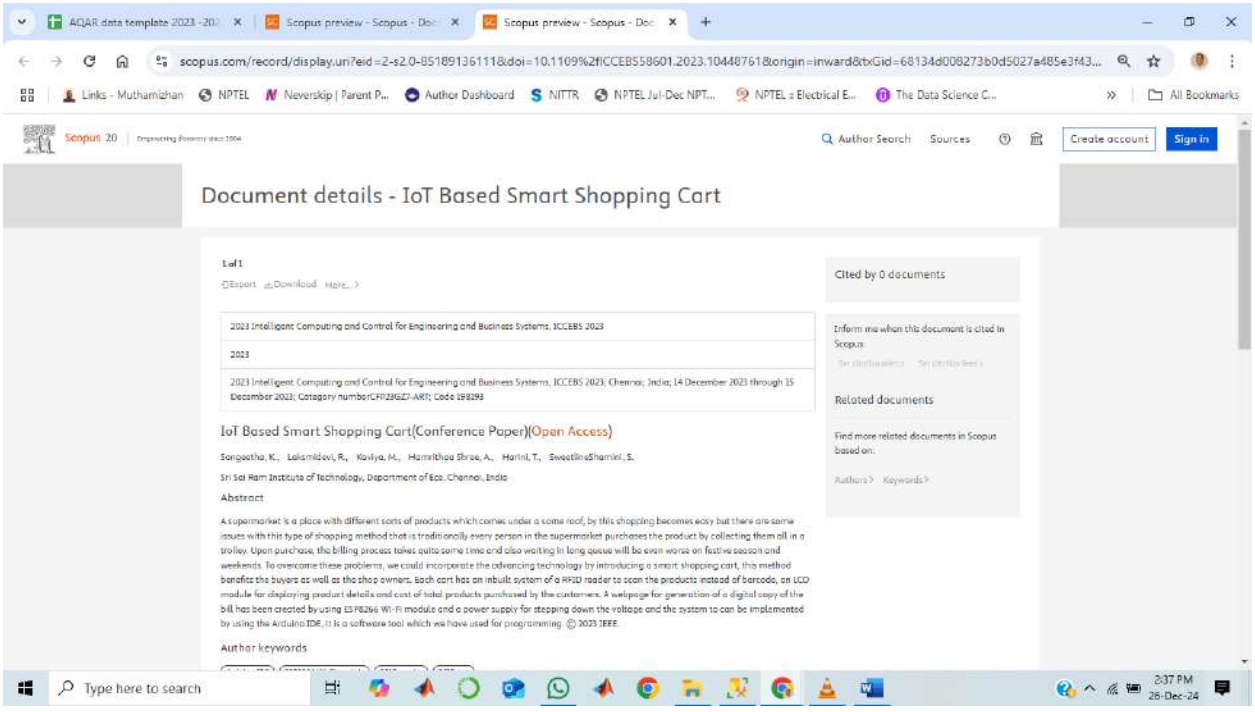
(2024) 4th International Conference on Innovative Practices in Technology and Management 2024, ICIPTM 2024

Selvarathi, C., Nagul, J.G., Naveen, M.
IoT based Voice Controlled Home Computerization Utilizing NodeMcu and Android Application

(2024) Proceedings - 2024 5th International Conference on Mobile Computing and Sustainable Informatics, ICMCSI 2024

Vijayaraja, L., Jayakumar, N.S., Dhanasekar, R.
Sustainable Smart Homes Using IoT for Future Smart Cities

(2023) Proceedings of the 4th International



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IoT Based Smart Shopping Cart(Conference Paper)(Open Access)

Sangeetha, K., Lakshmidevi, R., Kaviya, M., Hamsithaa Shree, A., Harini, T., SweetlineShamini, S.

Sri Sai Ram Institute of Technology, Department of Ece, Chennai, India

Abstract

A supermarket is a place with different sorts of products which comes under a same roof, by this shopping becomes easy but there are some issues with this type of shopping method that is traditionally every person in the supermarket purchases the product by collecting them all in a trolley. Upon purchase, the billing process takes quite some time and also waiting in long queue will be even worse on festive season and weekends. To overcome these problems, we could incorporate the advancing technology by introducing a smart shopping cart, this method benefits the buyers as well as the shop owners. Each cart has an inbuilt system of a RFID reader to scan the products instead of barcode, an LCD module for displaying product details and cost of total products purchased by the customers. A webpage for generation of a digital copy of the bill has been created by using ESP8266 Wi-Fi module and a power supply for stepping down the voltage and the system to can be implemented by using the Arduino IDE, it is a software tool which we have used for programming. © 2023 IEEE.

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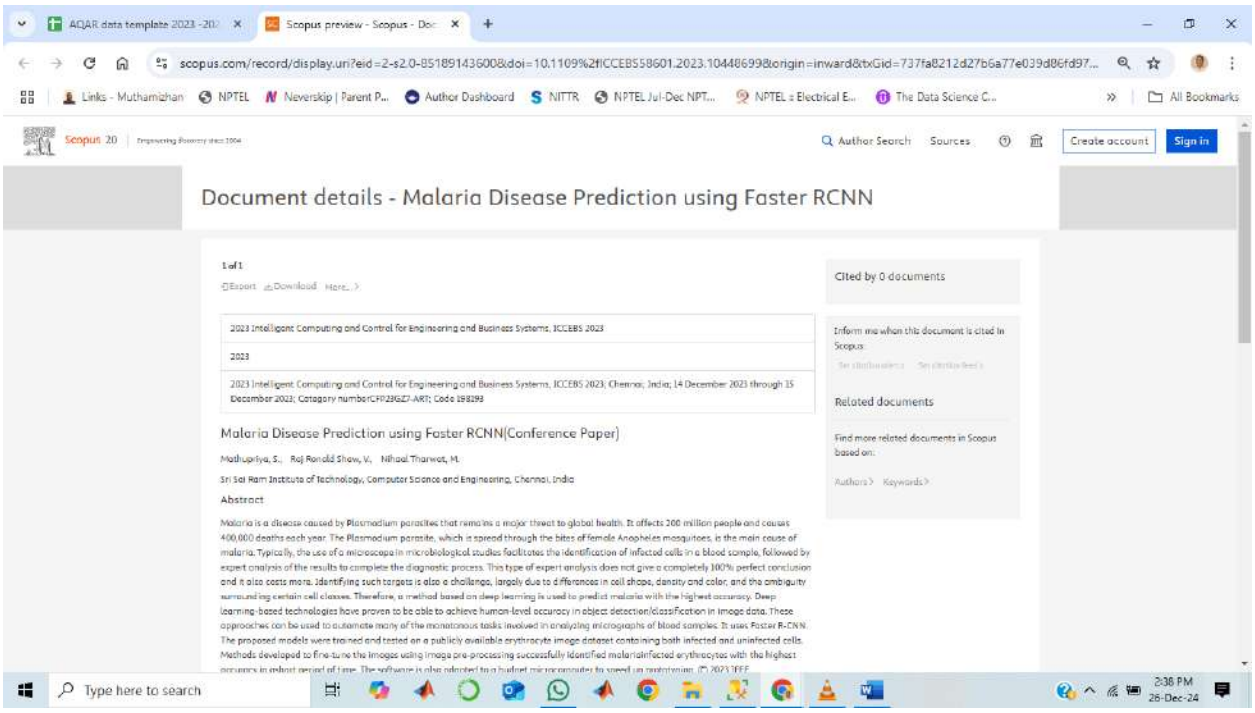

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Malaria Disease Prediction using Faster RCNN(Conference Paper)

Muthupriya, S., Raj Ronald Shaw, V., Nihaal Tharwat, M.

Sri Sai Ram Institute of Technology, Computer Science and Engineering, Chennai, India

Abstract

Malaria is a disease caused by Plasmodium parasites that remains a major threat to global health. It affects 200 million people and causes 400,000 deaths each year. The Plasmodium parasite, which is spread through the bites of female Anopheles mosquitoes, is the main cause of malaria. Typically, the use of a microscope in microbiological studies facilitates the identification of infected cells in a blood sample, followed by expert analysis of the results to complete the diagnostic process. This type of expert analysis does not give a completely 100% perfect conclusion and it also costs more. Identifying such targets is also a challenge, largely due to differences in cell shape, density and color, and the ambiguity surrounding certain cell classes. Therefore, a method based on deep learning is used to predict malaria with the highest accuracy. Deep learning-based technologies have proven to be able to achieve human-level accuracy in object detection/classification in image data. These approaches can be used to automate many of the monotonous tasks involved in analyzing micrographs of blood samples. It uses Faster R-CNN. The proposed models were trained and tested on a publicly available erythrocyte image dataset containing both infected and uninfected cells. Methods developed to fine-tune the images using image pre-processing successfully identified malaria-infected erythrocytes with the highest

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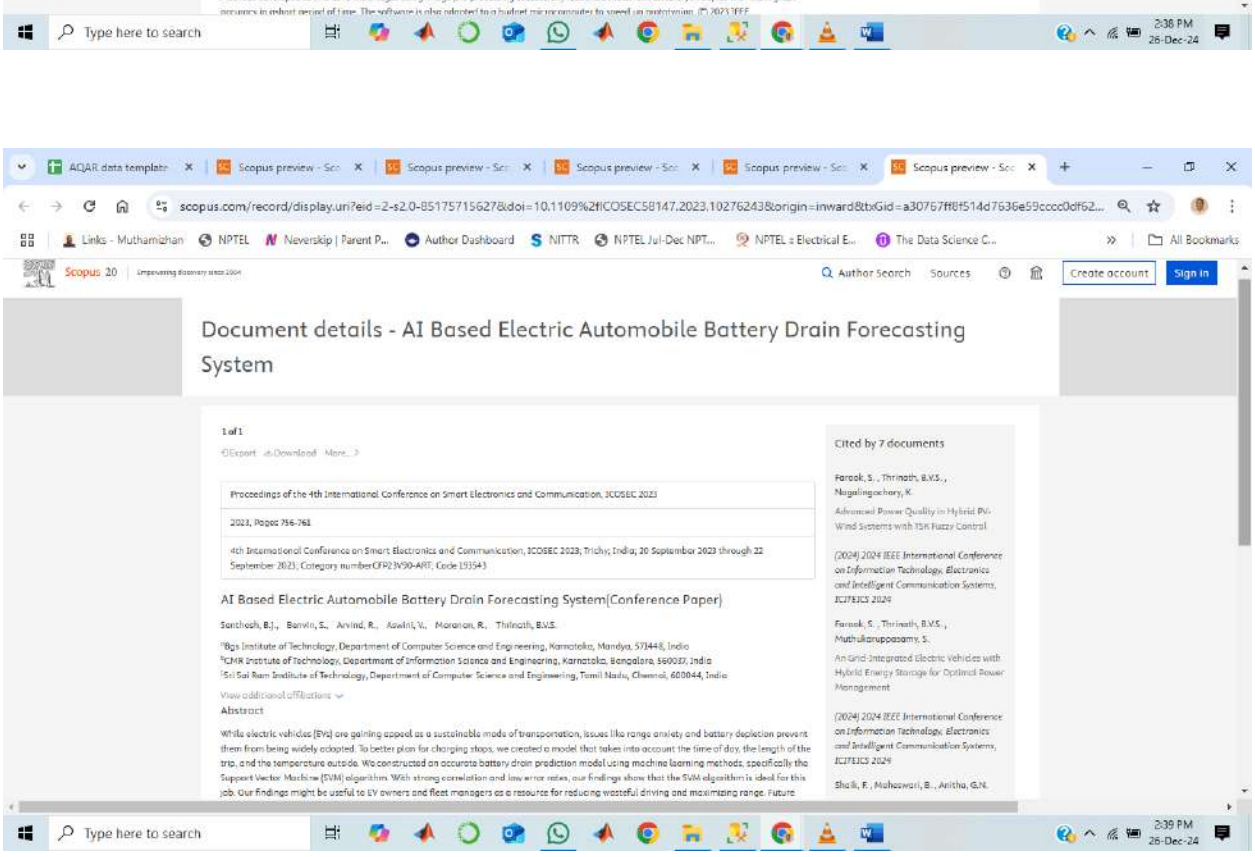

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AI Based Electric Automobile Battery Drain Forecasting System(Conference Paper)

Santhosh, B.J., Barvin, S., Arvind, R., Aswini, V., Manoran, R., Thinath, B.V.S.

[a]Bgs Institute of Technology, Department of Computer Science and Engineering, Karnataka, Mandya, 571448, India
[b]CMR Institute of Technology, Department of Information Science and Engineering, Karnataka, Bengaluru, 560037, India
[c]Sri Sai Ram Institute of Technology, Department of Computer Science and Engineering, Tamil Nadu, Chennai, 600044, India

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Abstract

While electric vehicles (EVs) are gaining appeal as a sustainable mode of transportation, issues like range anxiety and battery depletion prevent them from being widely adopted. To better plan for charging stops, we created a model that takes into account the time of day, the length of the trip, and the temperature outside. We constructed an accurate battery drain prediction model using machine learning methods, specifically the Support Vector Machine (SVM) algorithm. With strong correlation and low error rates, our findings show that the SVM algorithm is ideal for this job. Our findings might be useful to EV owners and fleet managers as a resource for reducing wasteful driving and maximizing range. Future

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Advanced Power Quality in Hybrid PV-Wind Systems with ISK Fuzzy Control
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Farook, S., Thrinath, B.V.S., Muthukaruppasamy, S.
An Grid-Integrated Electric Vehicles with Hybrid Energy Storage for Optimal Power Management
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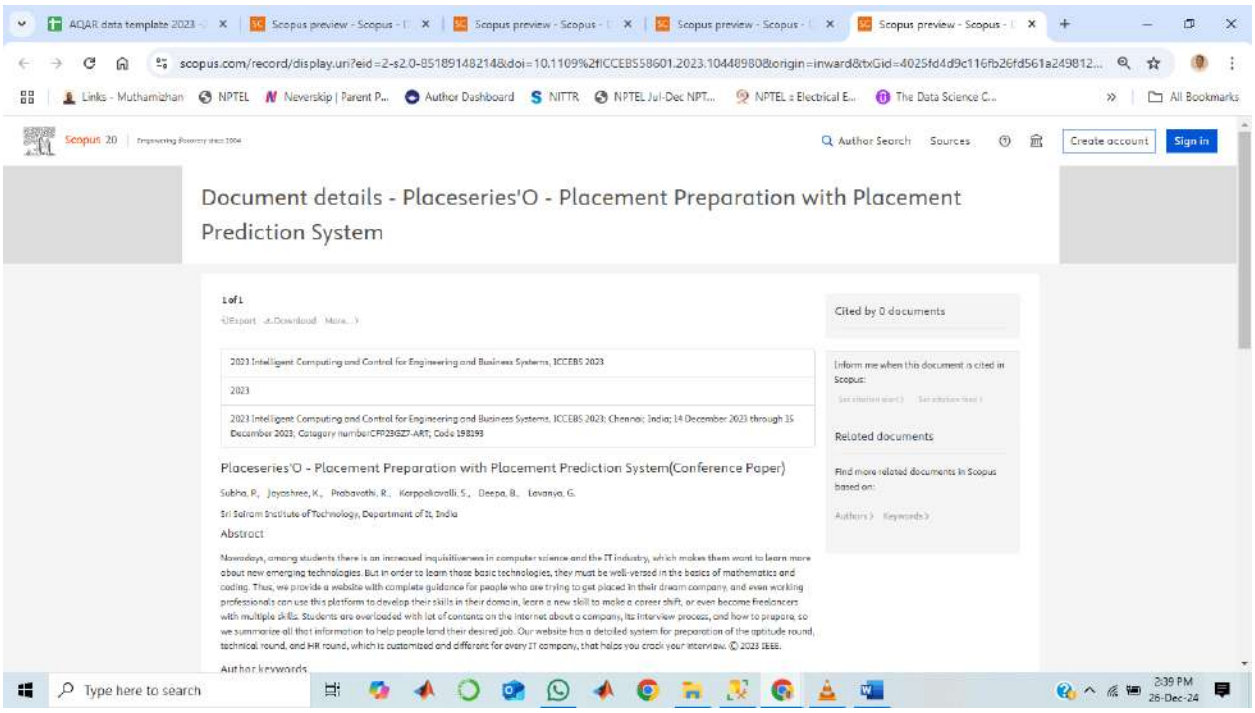
Shaik, F., Maheswari, B., Aritha, G.N.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Placeseries'O - Placement Preparation with Placement Prediction System(Conference Paper)
Subha, P., Jayashree, K., Prabavathi, R., Kerpakovalli, S., Deepa, B., Levanya, G.
Sri Sairam Institute of Technology, Department of It, India
Abstract
Nowadays, among students there is an increased inquisitiveness in computer science and the IT industry, which makes them want to learn more about new emerging technologies. But in order to learn those basic technologies, they must be well-versed in the basics of mathematics and coding. Thus, we provide a website with complete guidance for people who are trying to get placed in their dream company, and even working professionals can use this platform to develop their skills in their domain, learn a new skill to make a career shift, or even become freelancers with multiple skills. Students are overloaded with lot of contents on the internet about a company, its interview process, and how to prepare, so we summarize all that information to help people land their desired job. Our website has a detailed system for preparation of the aptitude round, technical round, and HR round, which is customized and different for every IT company, that helps you crack your interview. © 2023 IEEE.
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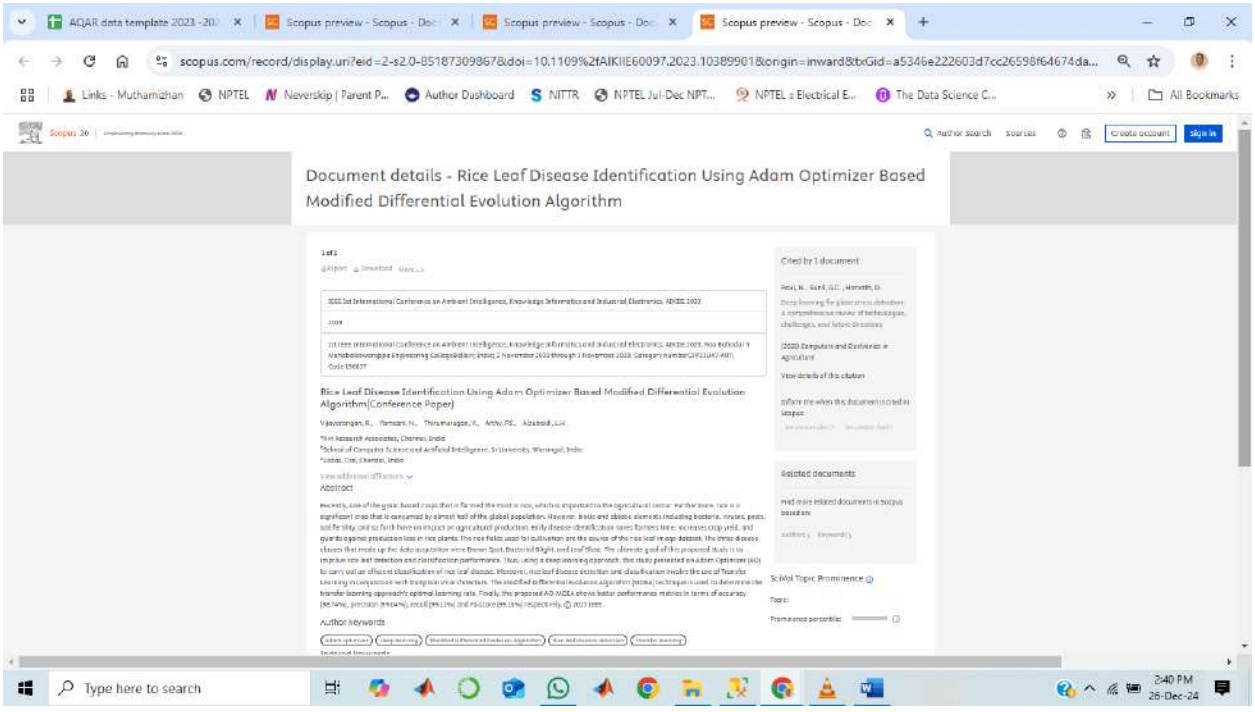
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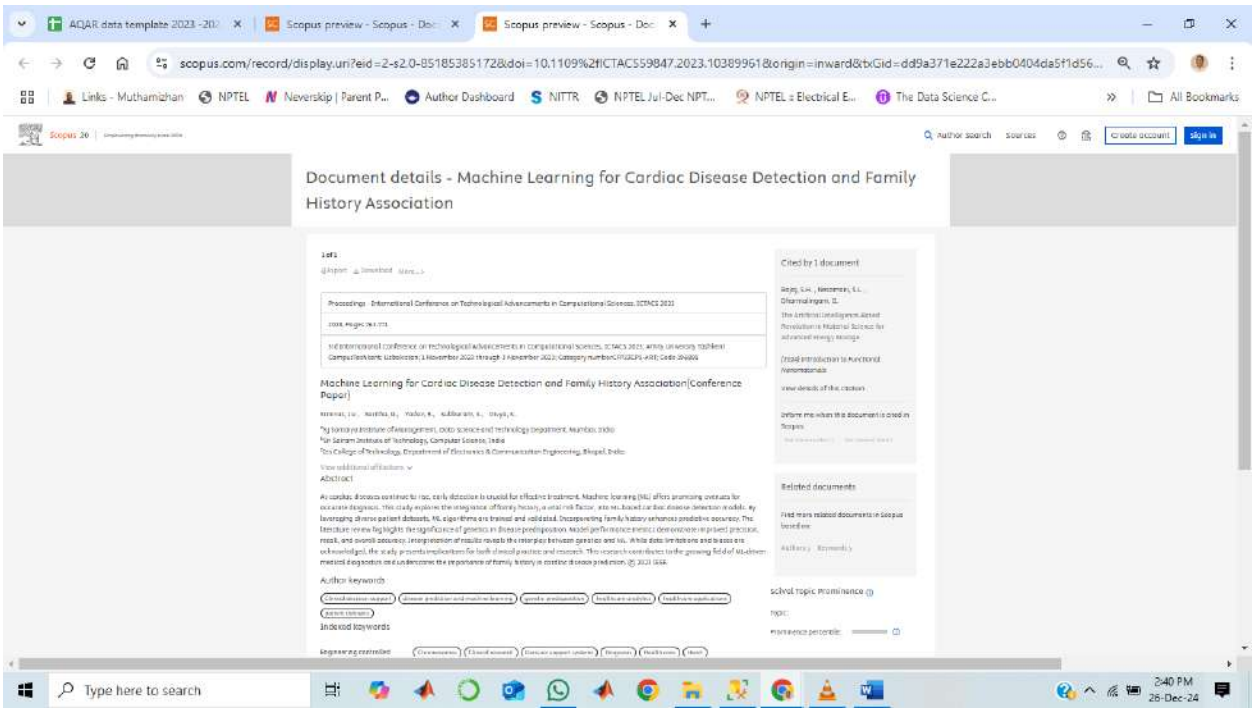
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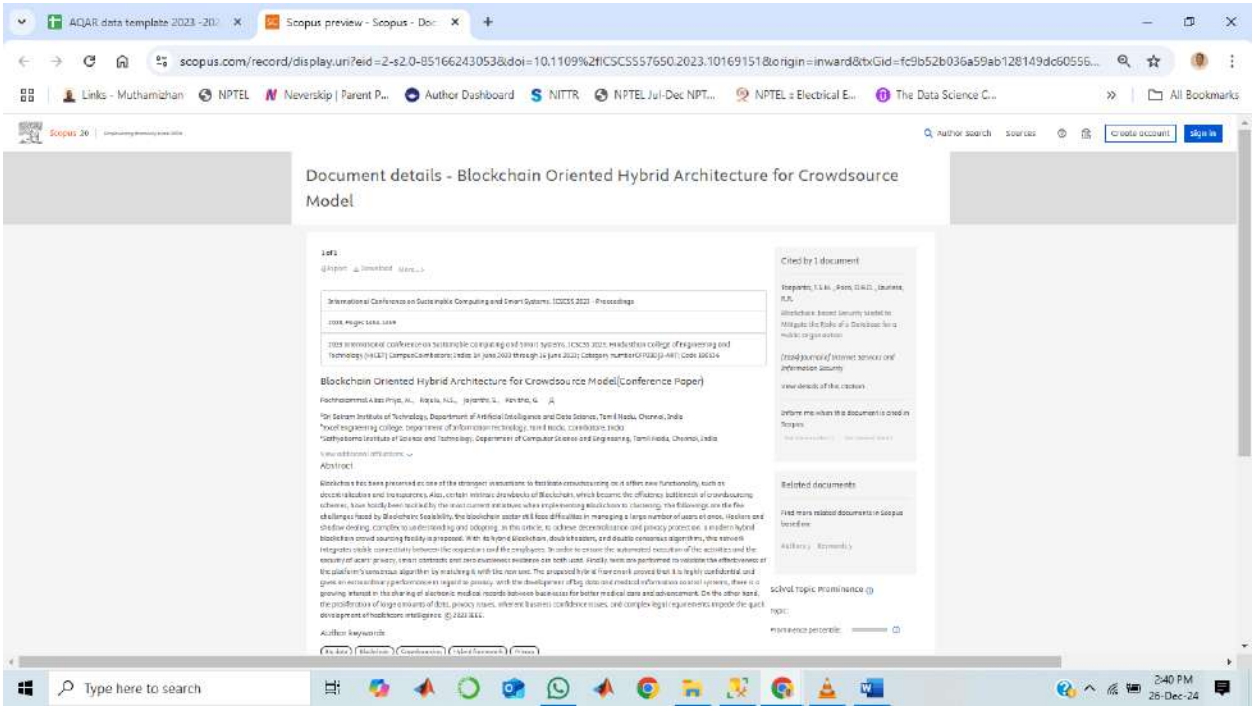
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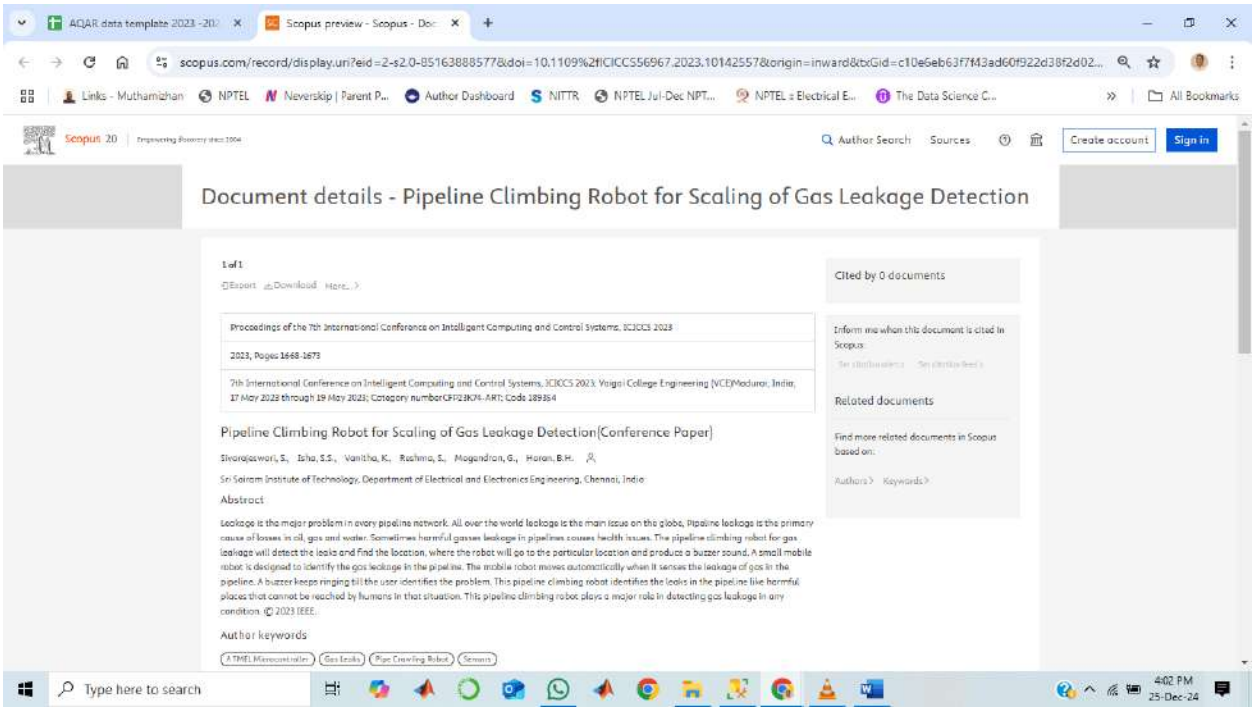
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Pipeline Climbing Robot for Scaling of Gas Leakage Detection(Conference Paper)
Sivarajeswari, S.
Isha, S.S.
Vanitha, K.
Rashma, S.
Mogendran, G.
Haran, B.H.
Sri Sairam Institute of Technology, Department of Electrical and Electronics Engineering, Chennai, India
Abstract
Leakage is the major problem in every pipeline network. All over the world leakage is the main issue on the globe, Pipeline leakage is the primary cause of losses in oil, gas and water. Sometimes harmful gasses leakage in pipelines causes health issues. The pipeline climbing robot for gas leakage will detect the leaks and find the location, where the robot will go to the particular location and produce a buzzer sound. A small mobile robot is designed to identify the gas leakage in the pipeline. The mobile robot moves automatically when it senses the leakage of gas in the pipeline. A buzzer keeps ringing till the user identifies the problem. This pipeline climbing robot identifies the leaks in the pipeline like harmful places that cannot be reached by humans in that situation. This pipeline climbing robot plays a major role in detecting gas leakage in any condition. © 2023 IEEE.
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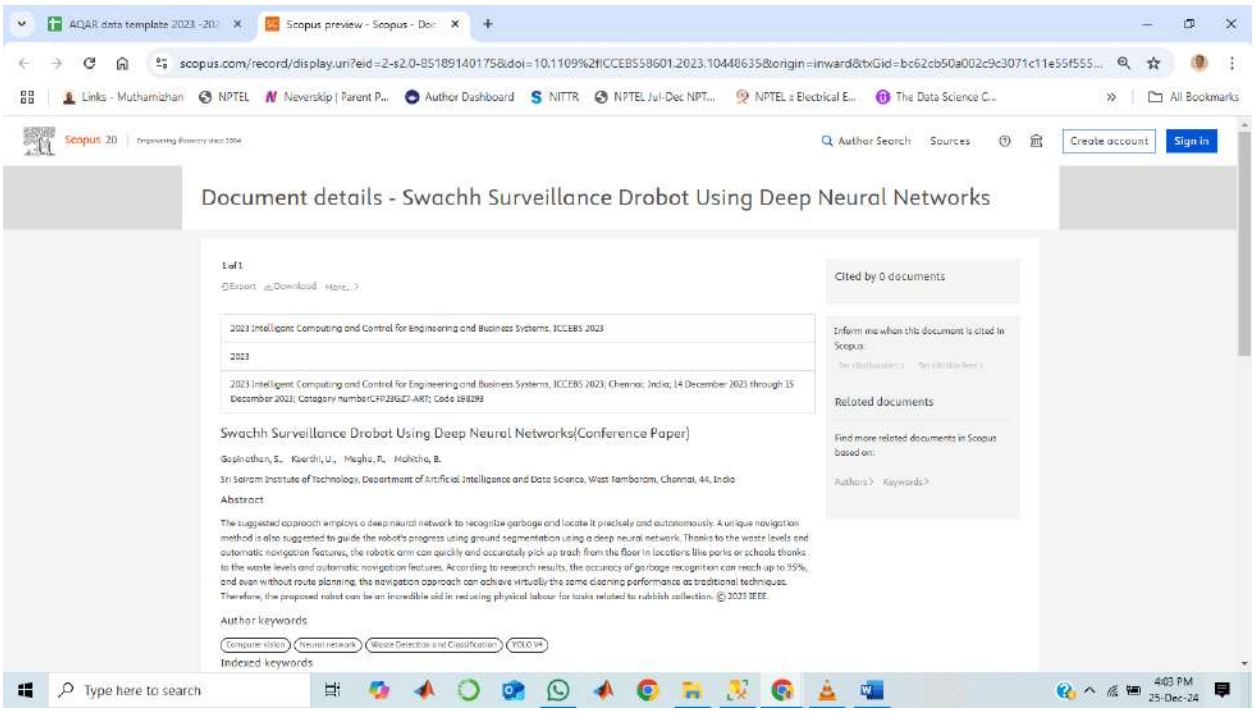
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2023 Intelligent Computing and Control for Engineering and Business Systems, ICCEBS 2023; Chennai; India; 14 December 2023 through 15 December 2023; Category numberCFP23GZ7-ART; Code 198193
Swachh Surveillance Drobot Using Deep Neural Networks(Conference Paper)
Gopinathan, S., Kavathi, U., Megha, P., Mohitha, B.
Sri Sairam Institute of Technology, Department of Artificial Intelligence and Data Science, West Tambaram, Chennai, 44, India
Abstract
The suggested approach employs a deep neural network to recognize garbage and locate it precisely and autonomously. A unique navigation method is also suggested to guide the robot's progress using ground segmentation using a deep neural network. Thanks to the waste levels and automatic navigation features, the robotic arm can quickly and accurately pick up trash from the floor in locations like parks or schools thanks to the waste levels and automatic navigation features. According to research results, the accuracy of garbage recognition can reach up to 95%, and even without route planning, the navigation approach can achieve virtually the same cleaning performance as traditional techniques. Therefore, the proposed robot can be an incredible aid in reducing physical labour for tasks related to rubbish collection. © 2023 IEEE.
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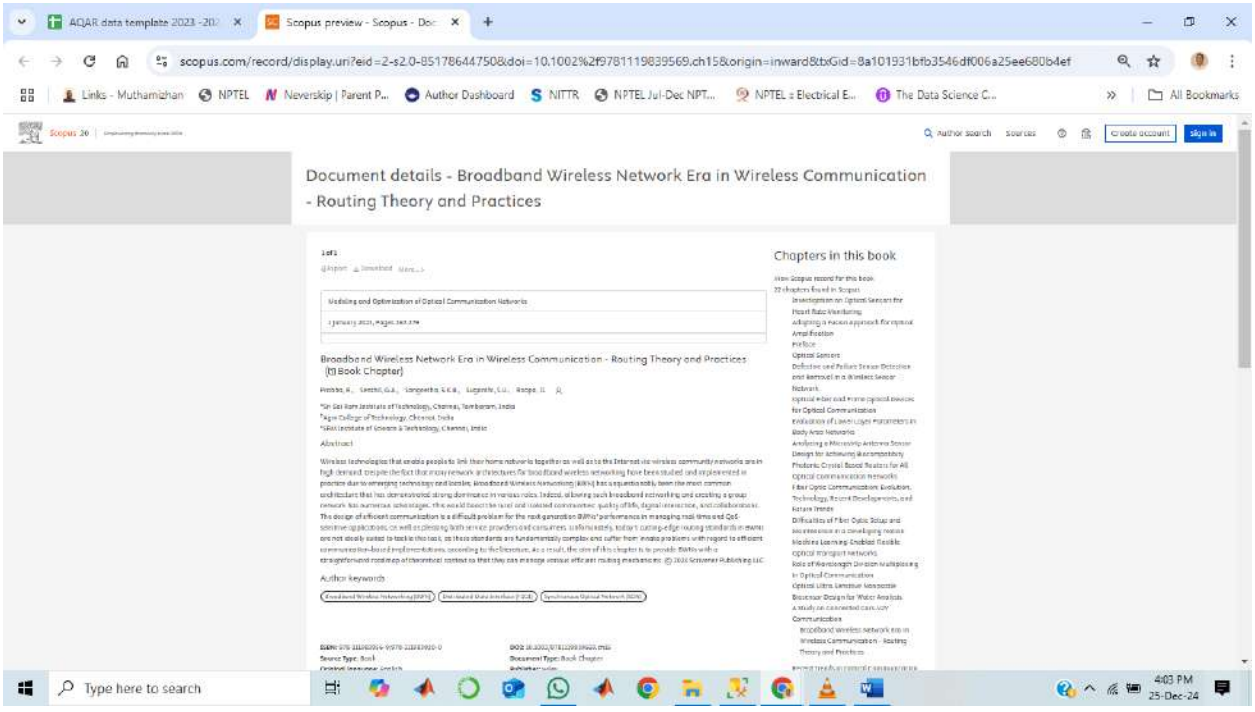
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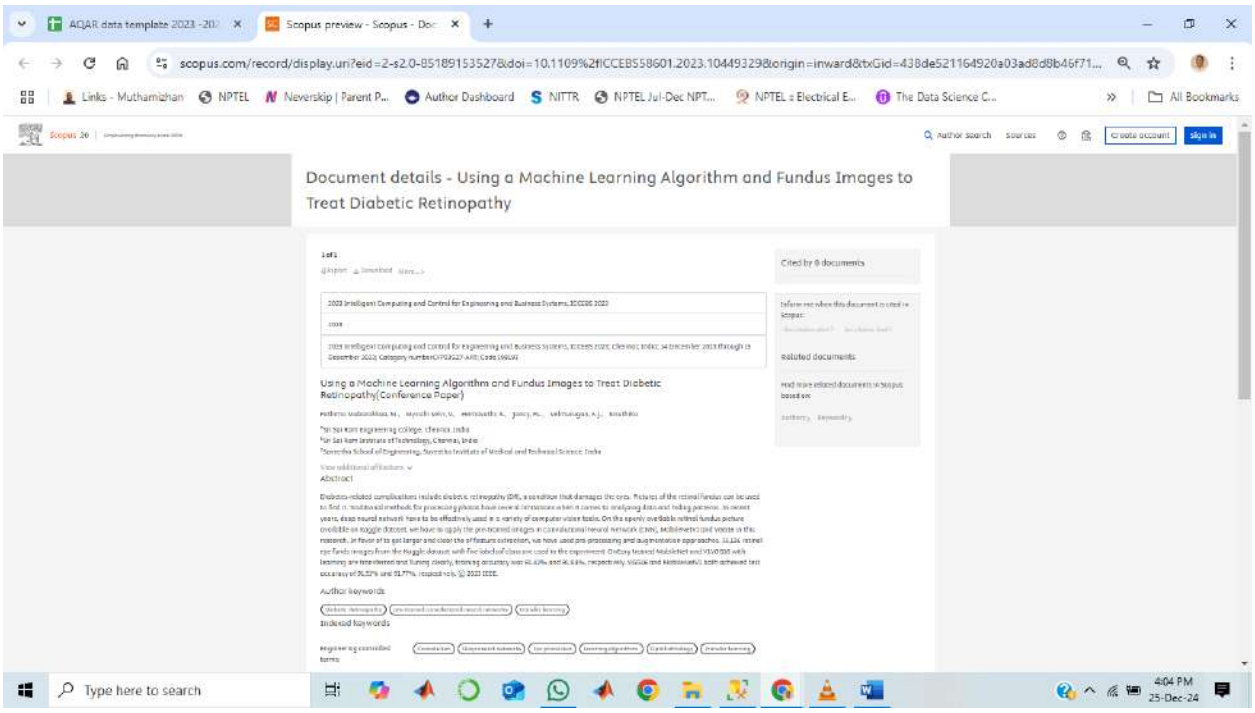
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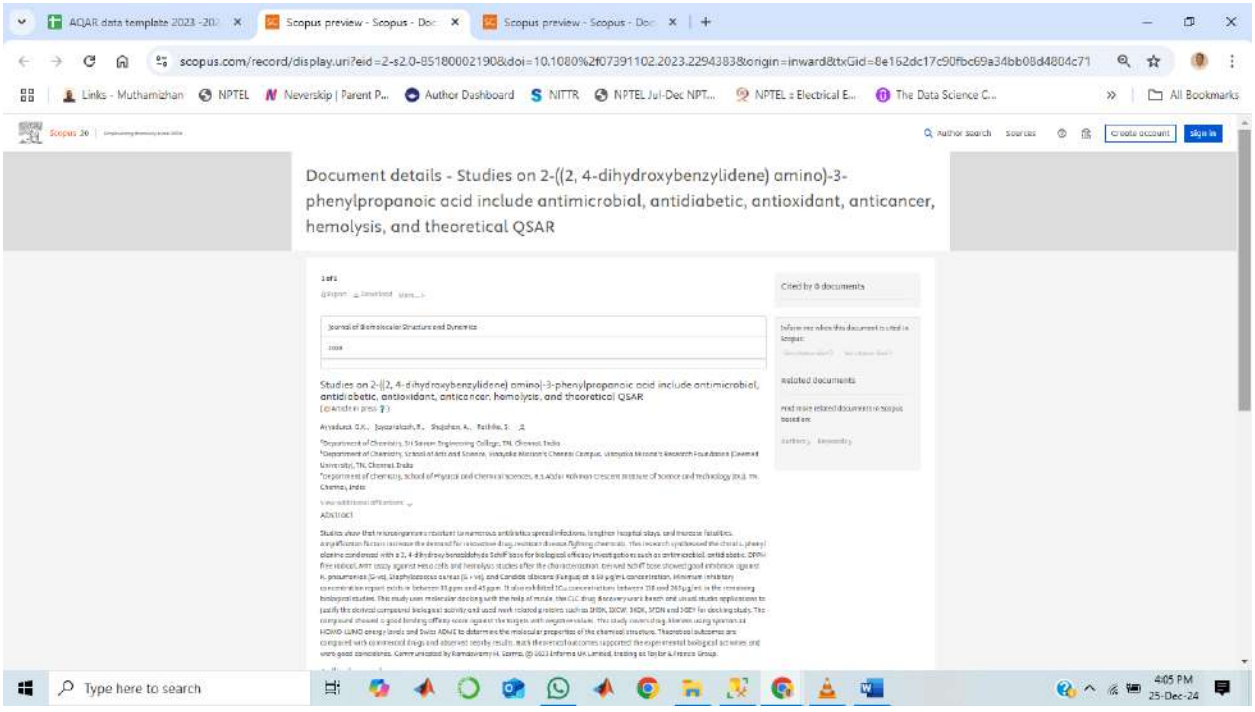
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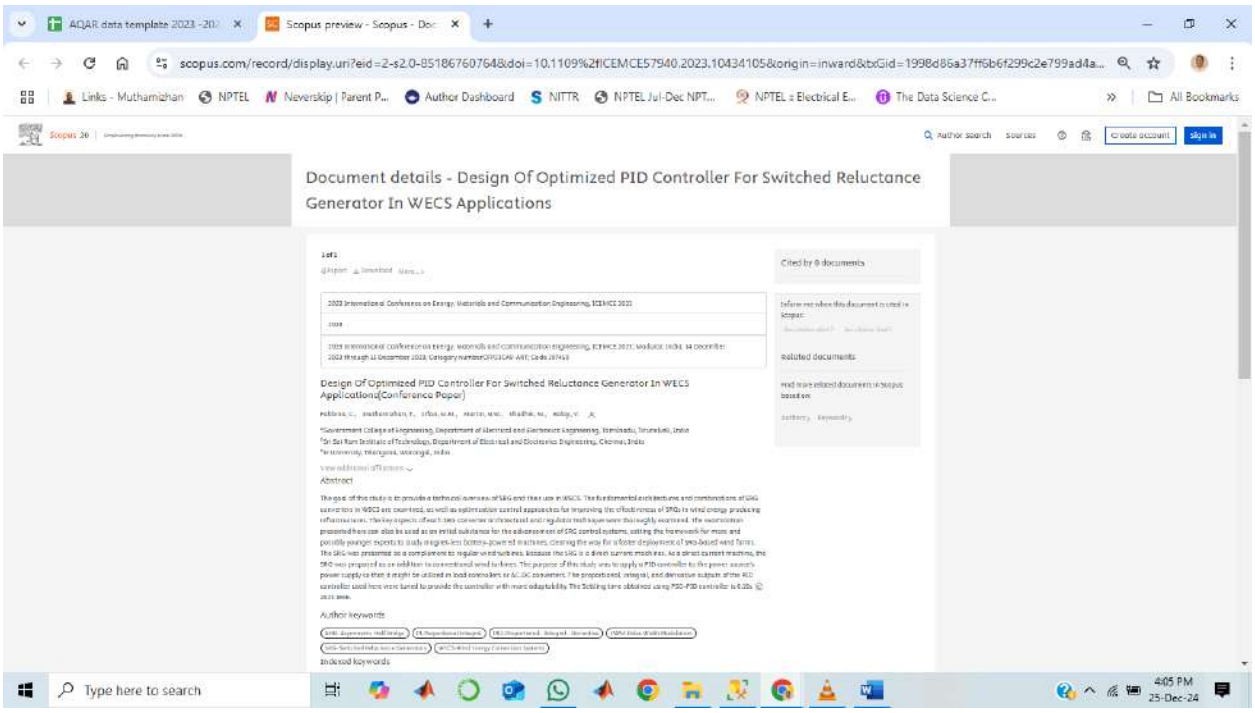
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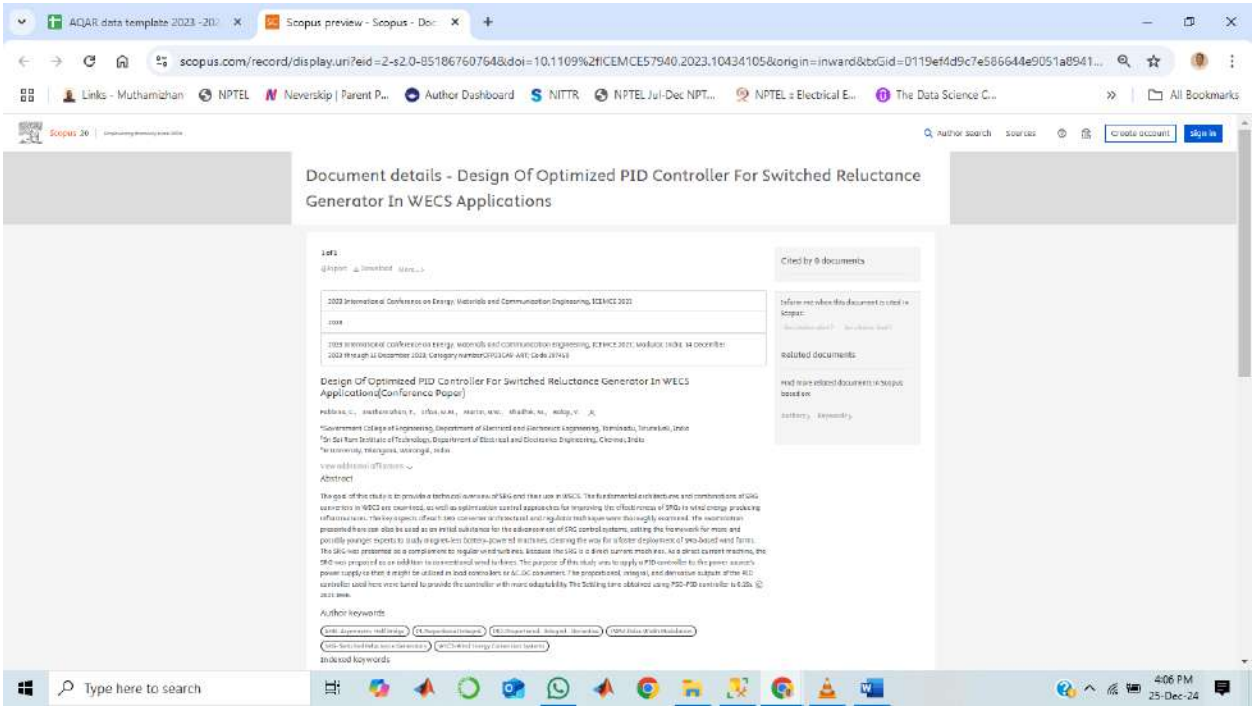
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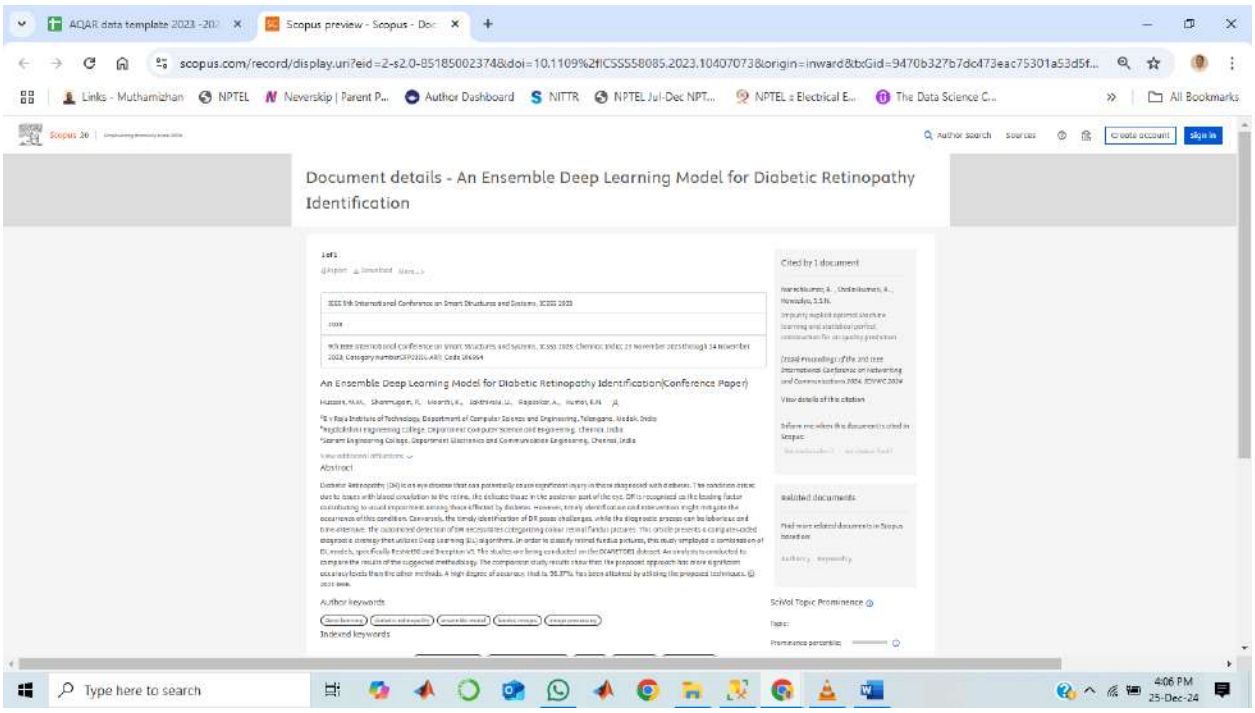
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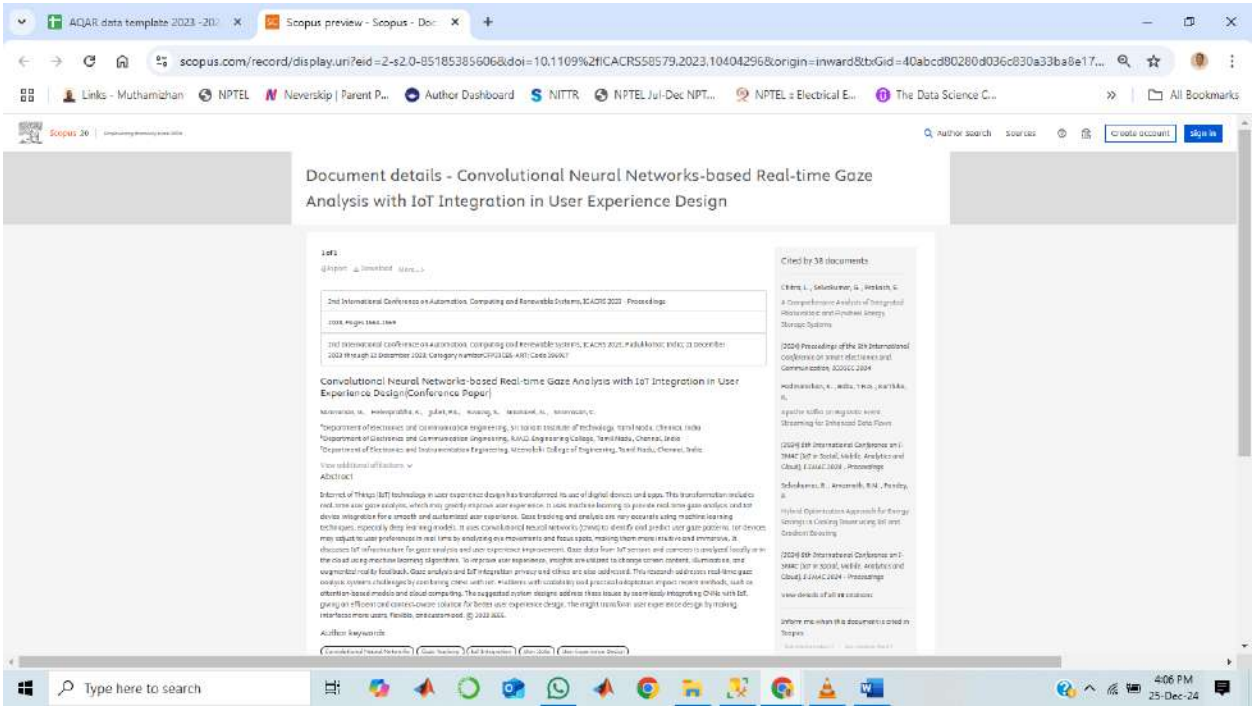
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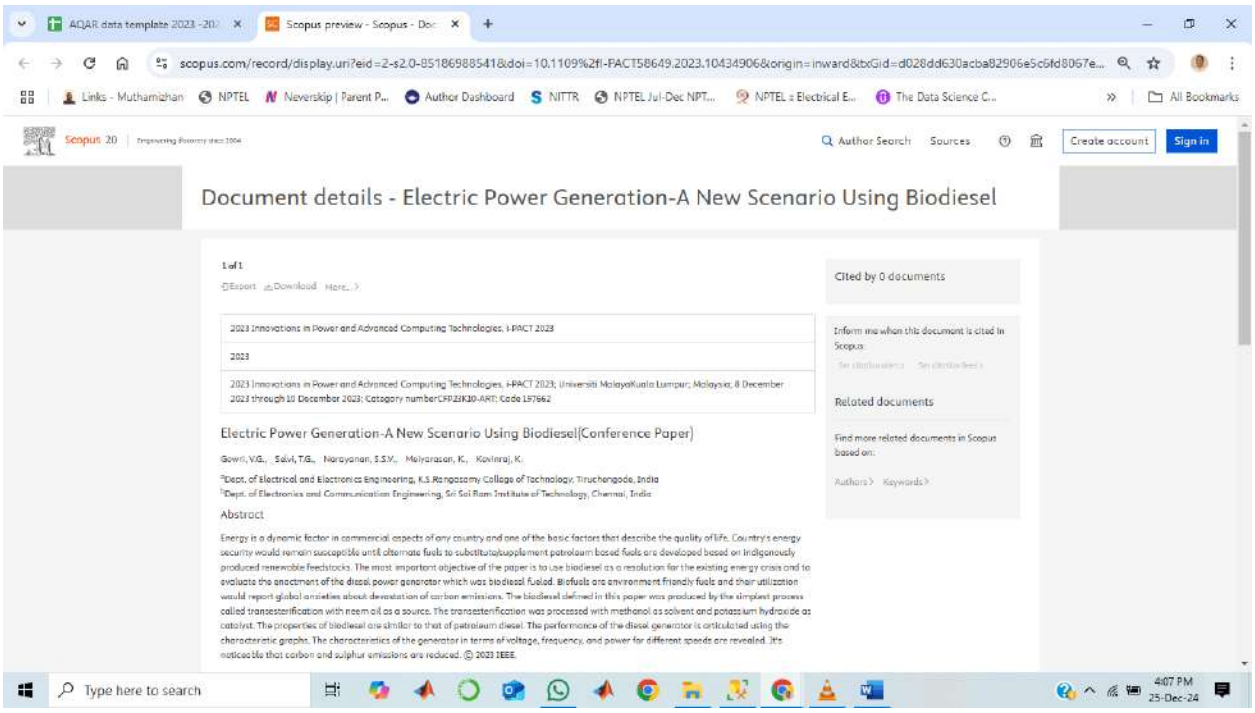
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Electric Power Generation-A New Scenario Using Biodiesel(Conference Paper)
Gowri, V.G., Salvi, T.G., Narayanan, S.S.V., Mahyarasan, K., Kovinraj, K.
[a]Dept. of Electrical and Electronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode, India
[b]Dept. of Electronics and Communication Engineering, Sri Sai Ram Institute of Technology, Chennai, India
Abstract
Energy is a dynamic factor in commercial aspects of any country and one of the basic factors that describe the quality of life. Country's energy security would remain susceptible until alternate fuels to substitute/supplement petroleum based fuels are developed based on indigenously produced renewable feedstocks. The most important objective of the paper is to use biodiesel as a resolution for the existing energy crisis and to evaluate the enactment of the diesel power generator which was biodiesel fueled. Biofuels are environment friendly fuels and their utilization would report global anxieties about devastation of carbon emissions. The biodiesel defined in this paper was produced by the simplest process called transesterification with neem oil as a source. The transesterification was processed with methanol as solvent and potassium hydroxide as catalyst. The properties of biodiesel are similar to that of petroleum diesel. The performance of the diesel generator is articulated using the characteristic graphs. The characteristics of the generator in terms of voltage, frequency, and power for different speeds are revealed. It's noticeable that carbon and sulphur emissions are reduced. © 2023 IEEE.
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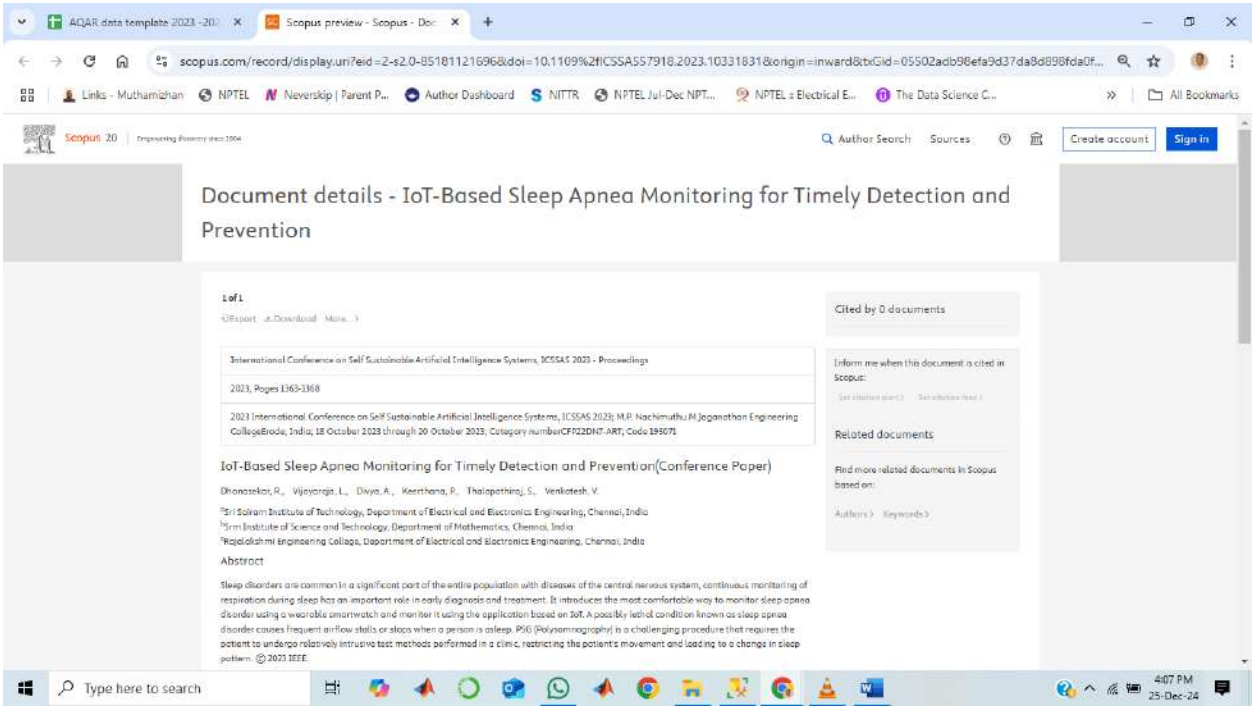
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IoT-Based Sleep Apnea Monitoring for Timely Detection and Prevention(Conference Paper)
Dhanasekar, R., Vijayaraja, L., Divya, A., Keerthana, P., Thalapathiraj, S., Venkatesh, V.
[a]Sri Sairam Institute of Technology, Department of Electrical and Electronics Engineering, Chennai, India
[b]Srm Institute of Science and Technology, Department of Mathematics, Chennai, India
[c]Rajalakshmi Engineering College, Department of Electrical and Electronics Engineering, Chennai, India
Abstract
Sleep disorders are common in a significant part of the entire population with diseases of the central nervous system, continuous monitoring of respiration during sleep has an important role in early diagnosis and treatment. It introduces the most comfortable way to monitor sleep apnea disorder using a wearable smartwatch and monitor it using the application based on IoT. A possibly lethal condition known as sleep apnea disorder causes frequent airflow stalls or stops when a person is asleep. PSG (Polysomnography) is a challenging procedure that requires the patient to undergo relatively intrusive test methods performed in a clinic, restricting the patient's movement and leading to a change in sleep pattern. © 2023 IEEE.
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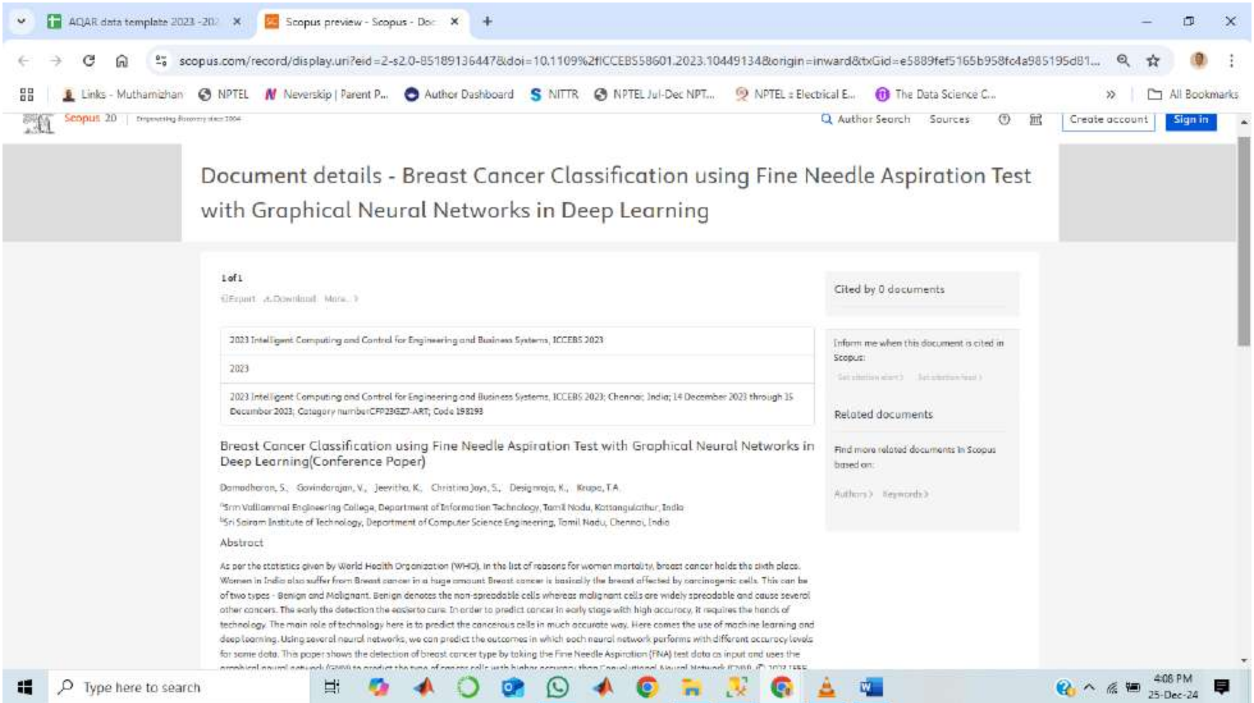

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Breast Cancer Classification using Fine Needle Aspiration Test with Graphical Neural Networks in Deep Learning(Conference Paper)

Damodharan, S., Govindarajan, V., Jeevitha, K., Christina Joys, S., Designraja, K., Krupa, T.A.

[a]Srm Valliammai Engineering College, Department of Information Technology, Tamil Nadu, Kattangulathur, India
[b]Sri Sairam Institute of Technology, Department of Computer Science Engineering, Tamil Nadu, Chennai, India

Abstract

As per the statistics given by World Health Organization (WHO), in the list of reasons for women mortality, breast cancer holds the sixth place. Women in India also suffer from Breast cancer in a huge amount Breast cancer is basically the breast affected by carcinogenic cells. This can be of two types - Benign and Malignant. Benign denotes the non-spreadable cells whereas malignant cells are widely spreadable and cause several other cancers. The early the detection the easier to cure. In order to predict cancer in early stage with high accuracy, it requires the hands of technology. The main role of technology here is to predict the cancerous cells in much accurate way. Here comes the use of machine learning and deep learning. Using several neural networks, we can predict the outcomes in which each neural network performs with different accuracy levels for some data. This paper shows the detection of breast cancer type by taking the Fine Needle Aspiration (FNA) test data as input and uses the

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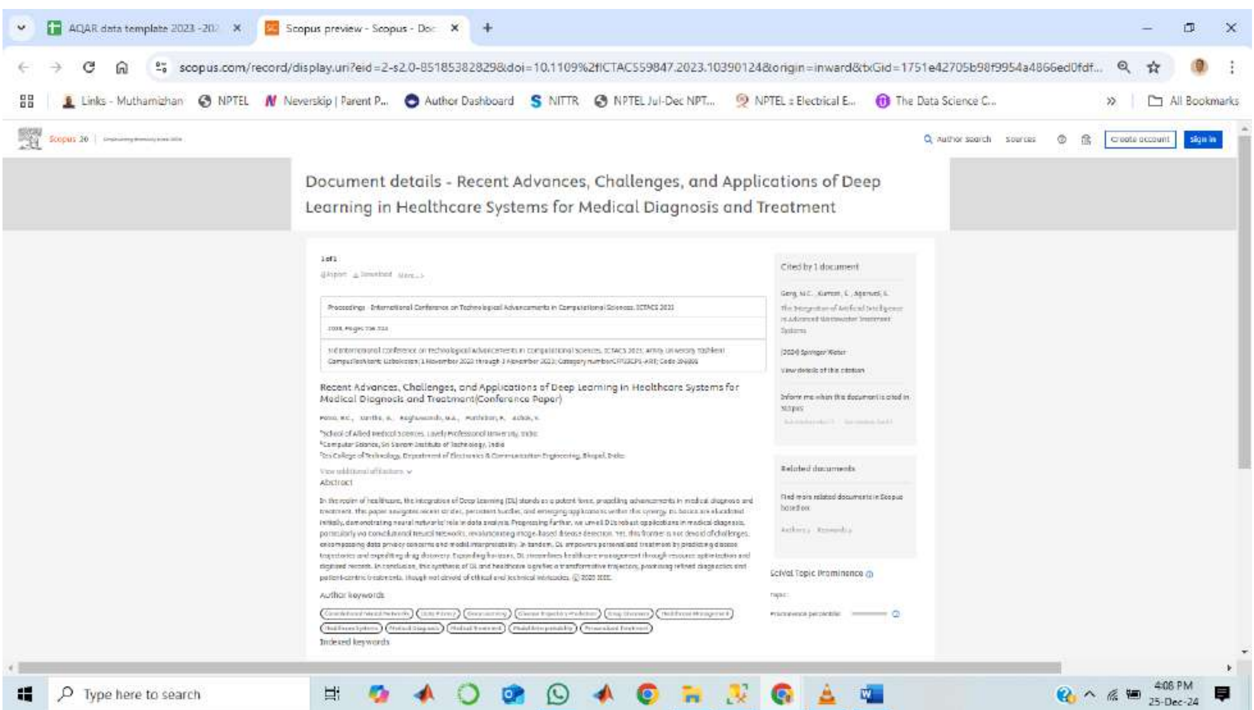

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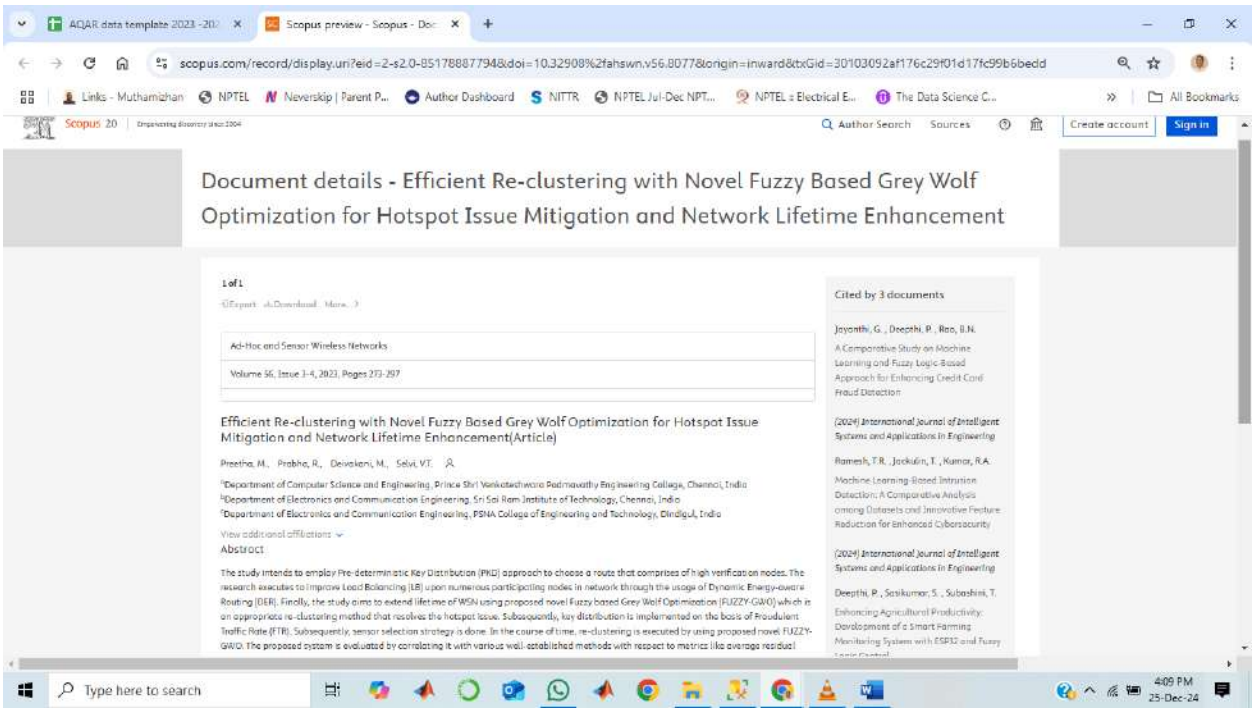
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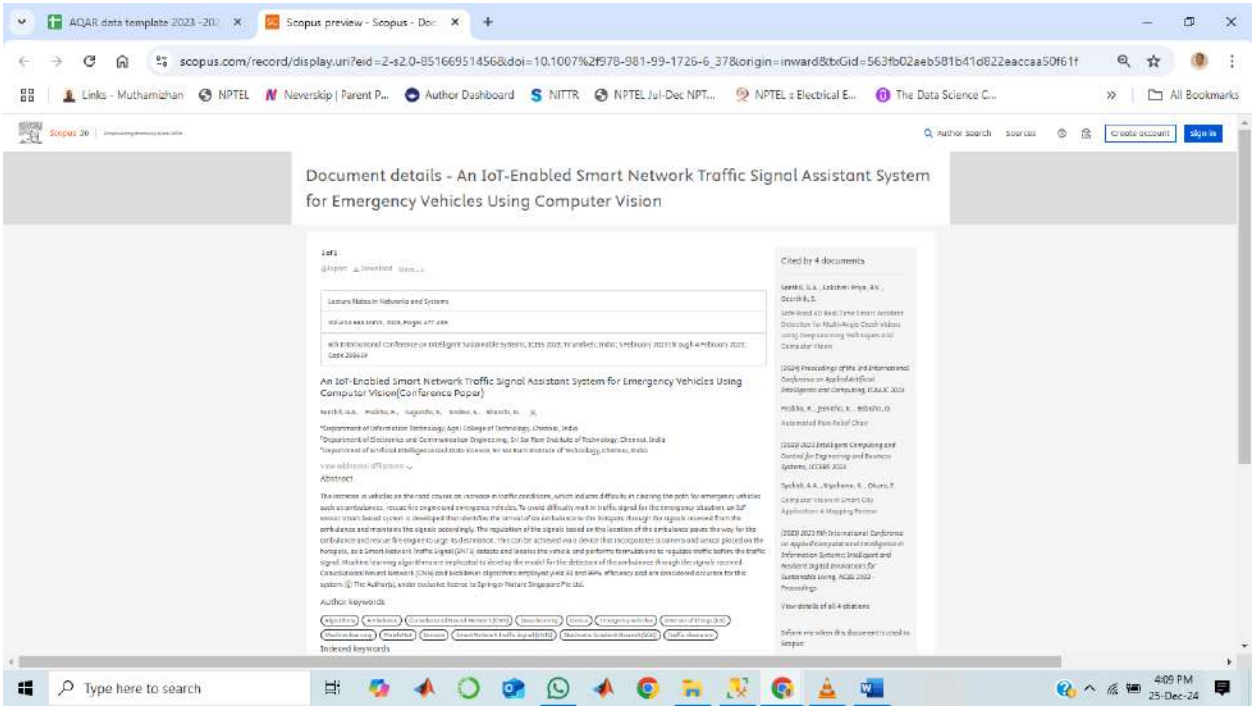
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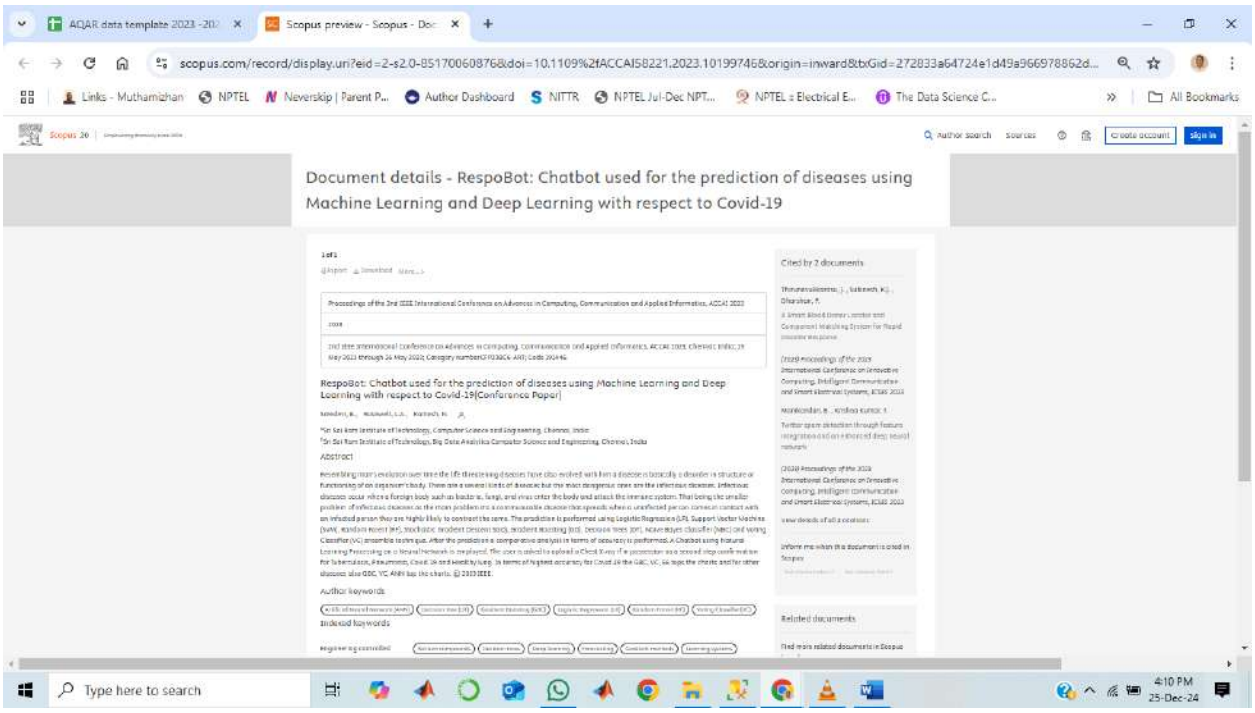
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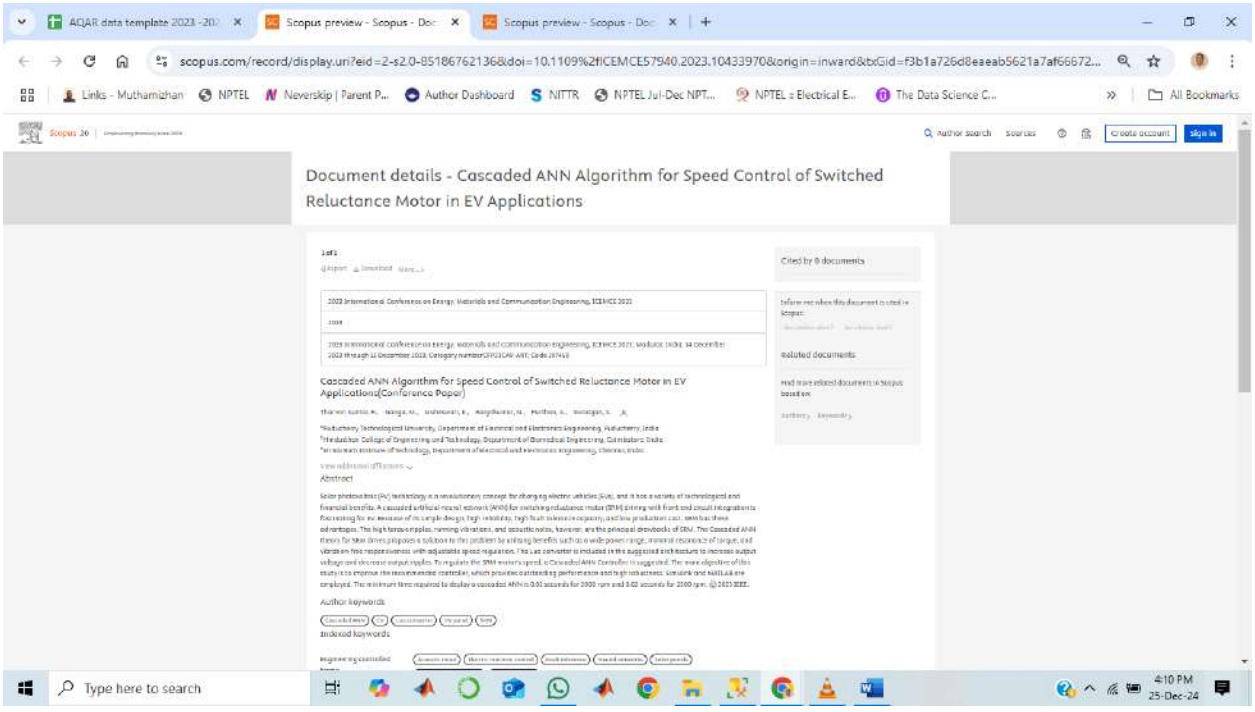
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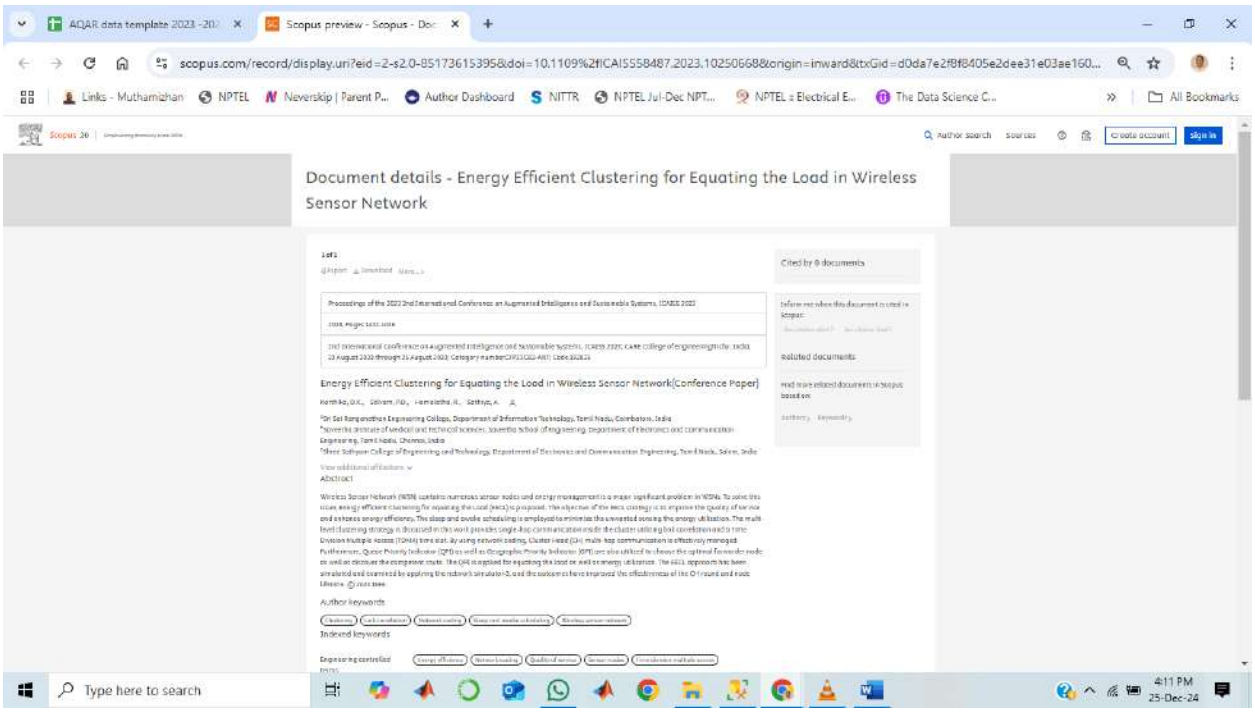
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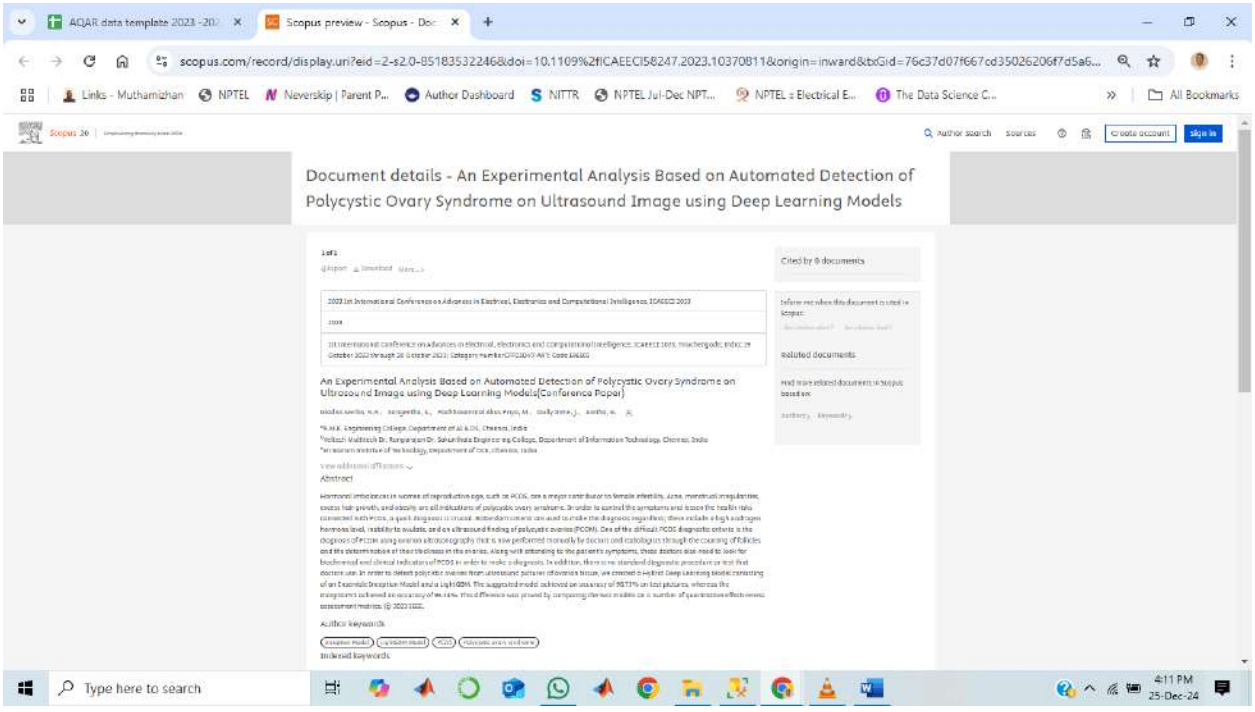
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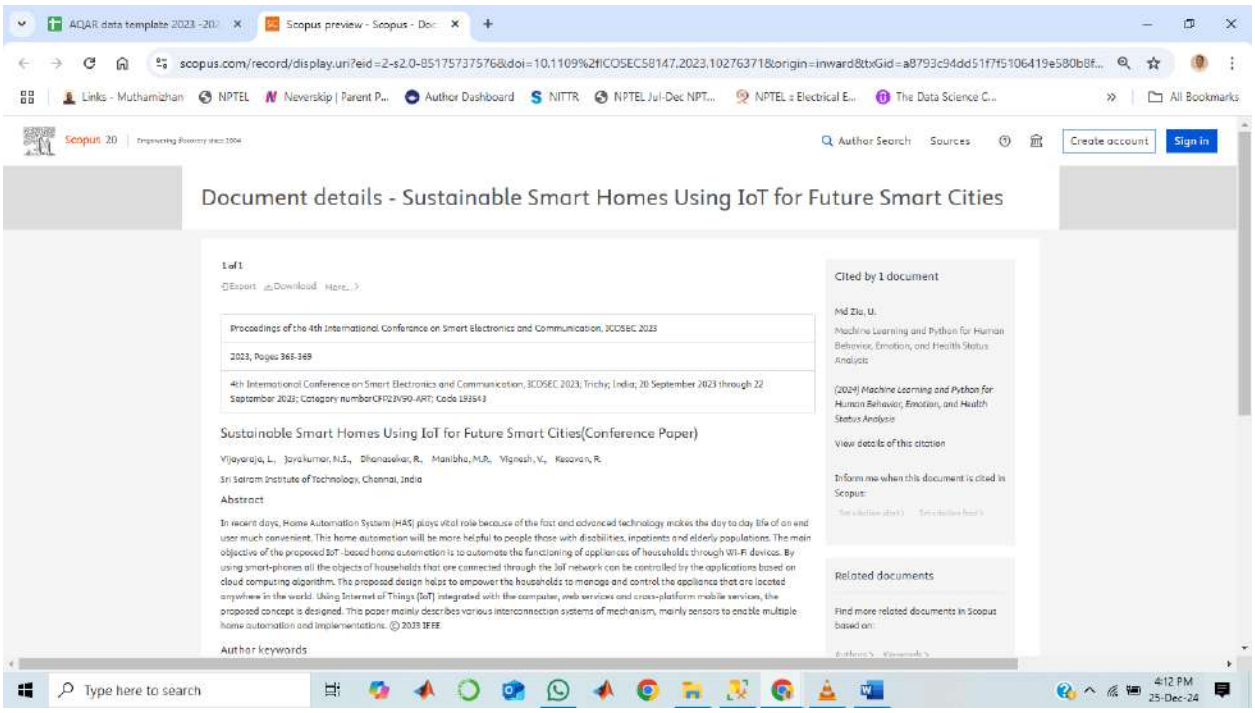
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4th International Conference on Smart Electronics and Communication, ICOSEC 2023; Trichy; India; 20 September 2023 through 22 September 2023; Category numberCFP23V90-ART; Code 192543
Sustainable Smart Homes Using IoT for Future Smart Cities(Conference Paper)
Vijayaraja, L., Jayakumar, N.S., Dhanasekar, R., Manibha, M.R., Vignesh, V., Kesavan, R.
Sri Sairam Institute of Technology, Chennai, India
Abstract
In recent days, Home Automation System (HAS) plays vital role because of the fast and advanced technology makes the day to day life of an end user much convenient. This home automation will be more helpful to people those with disabilities, inpatients and elderly populations. The main objective of the proposed IoT -based home automation is to automate the functioning of appliances of households through Wi-Fi devices. By using smart-phones all the objects of households that are connected through the IoT network can be controlled by the applications based on cloud computing algorithm. The proposed design helps to empower the households to manage and control the appliance that are located anywhere in the world. Using Internet of Things (IoT) integrated with the computer, web services and cross-platform mobile services, the proposed concept is designed. This paper mainly describes various interconnection systems of mechanism, mainly sensors to enable multiple home automation and implementations. © 2023 IEEE
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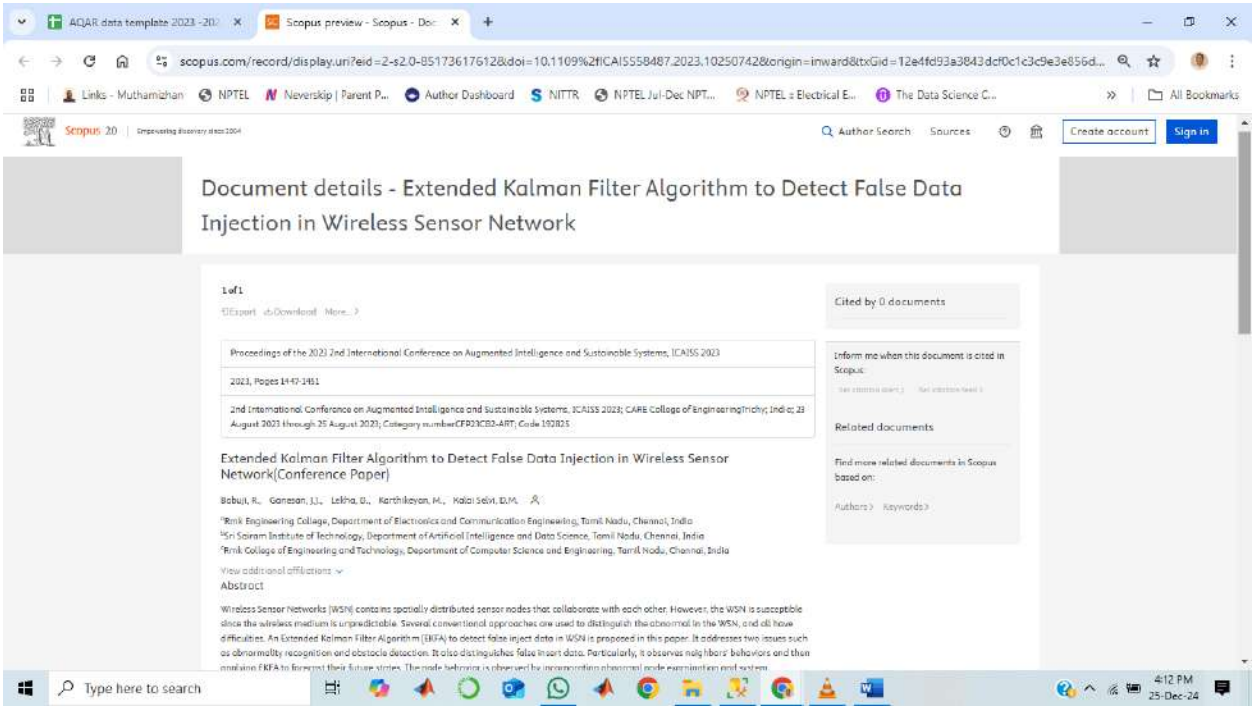
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Extended Kalman Filter Algorithm to Detect False Data Injection in Wireless Sensor Network(Conference Paper)
Babuji, R., Ganesan, J.J., Lekha, D., Karthikeyan, M., Kalai Selvi, D.M.
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Abstract
Wireless Sensor Networks (WSN) contains spatially distributed sensor nodes that collaborate with each other. However, the WSN is susceptible since the wireless medium is unpredictable. Several conventional approaches are used to distinguish the abnormal in the WSN, and all have difficulties. An Extended Kalman Filter Algorithm (EKFA) to detect false inject data in WSN is proposed in this paper. It addresses two issues such as abnormality recognition and obstacle detection. It also distinguishes false insert data. Particularly, it observes neighbors' behaviors and then applying EKFA to forecast their future states. The node behavior is observed by incorporating abnormal node examination and system
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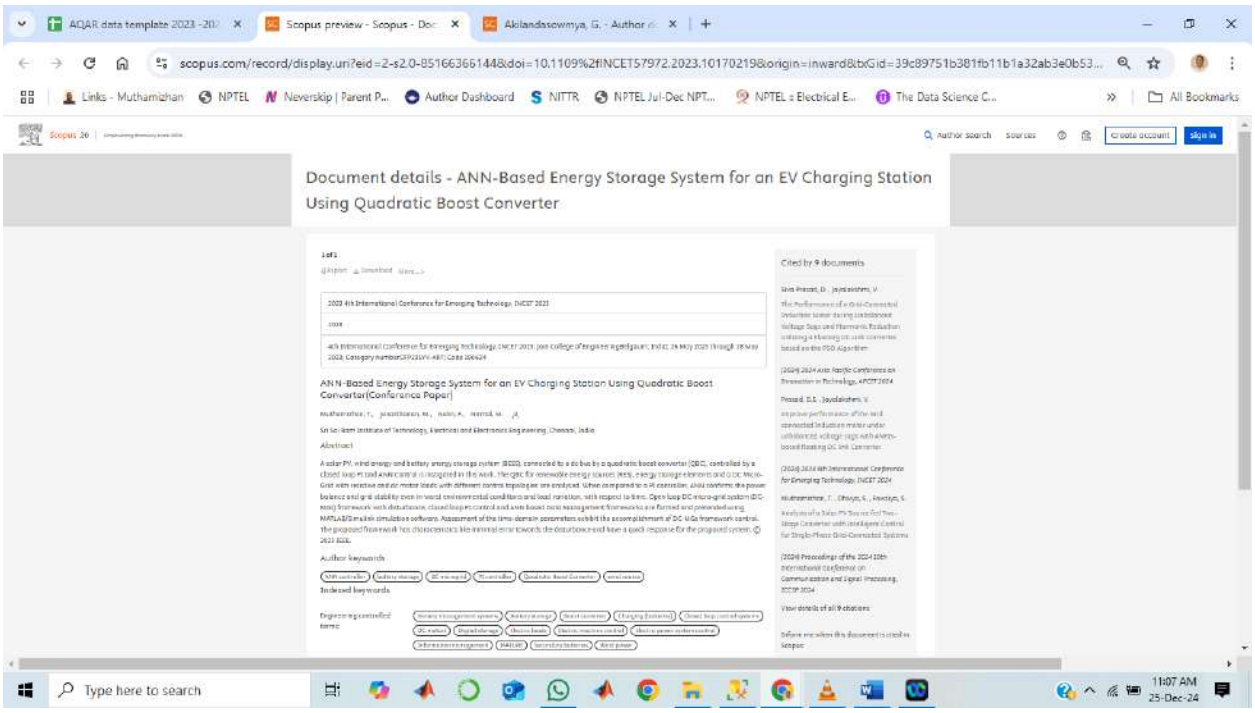
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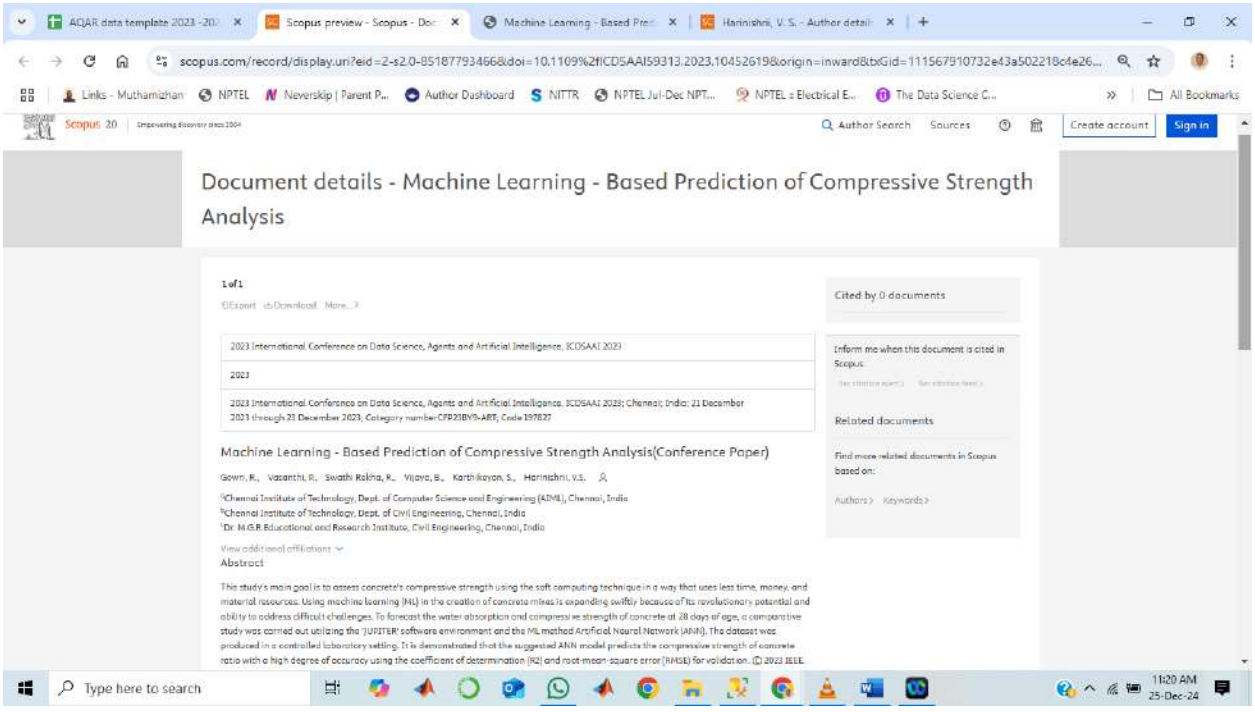
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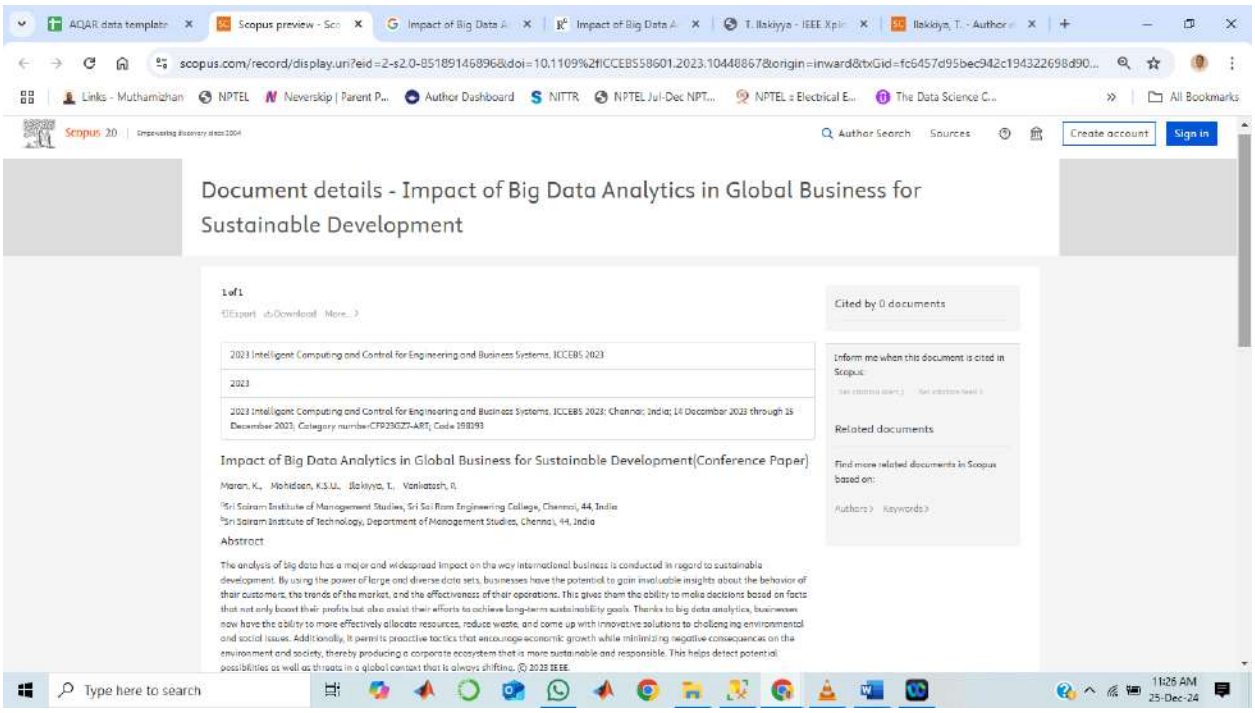
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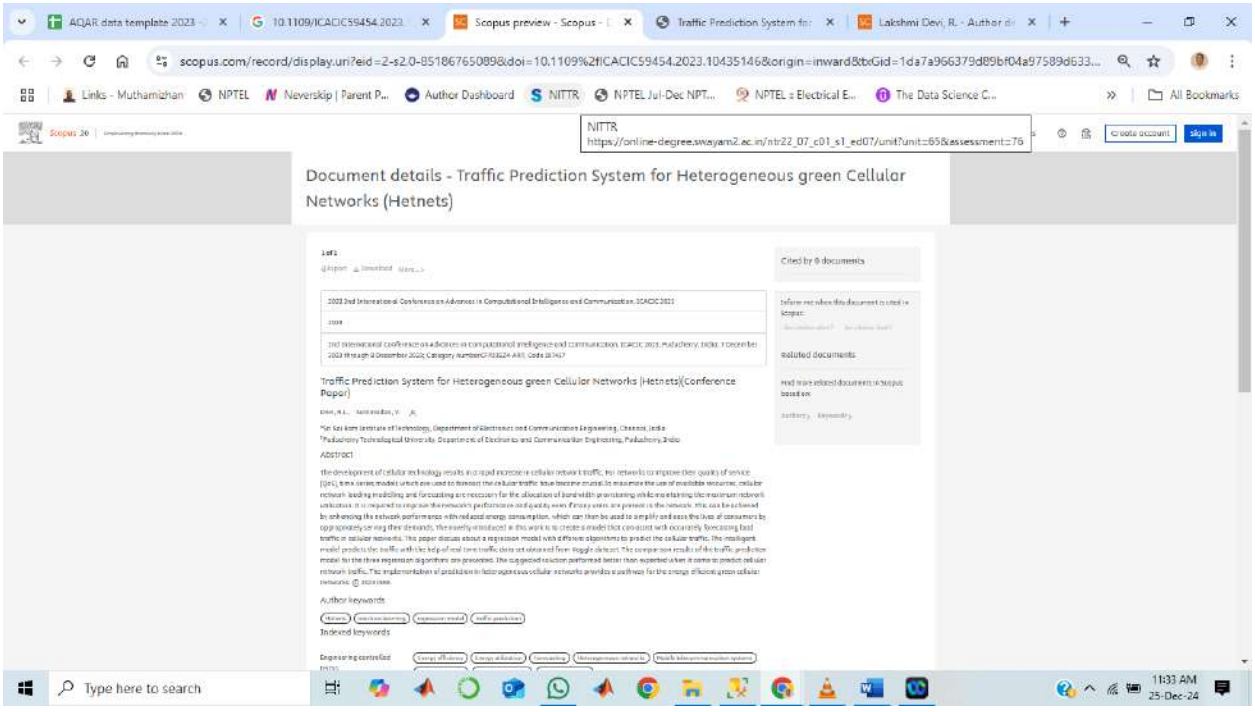
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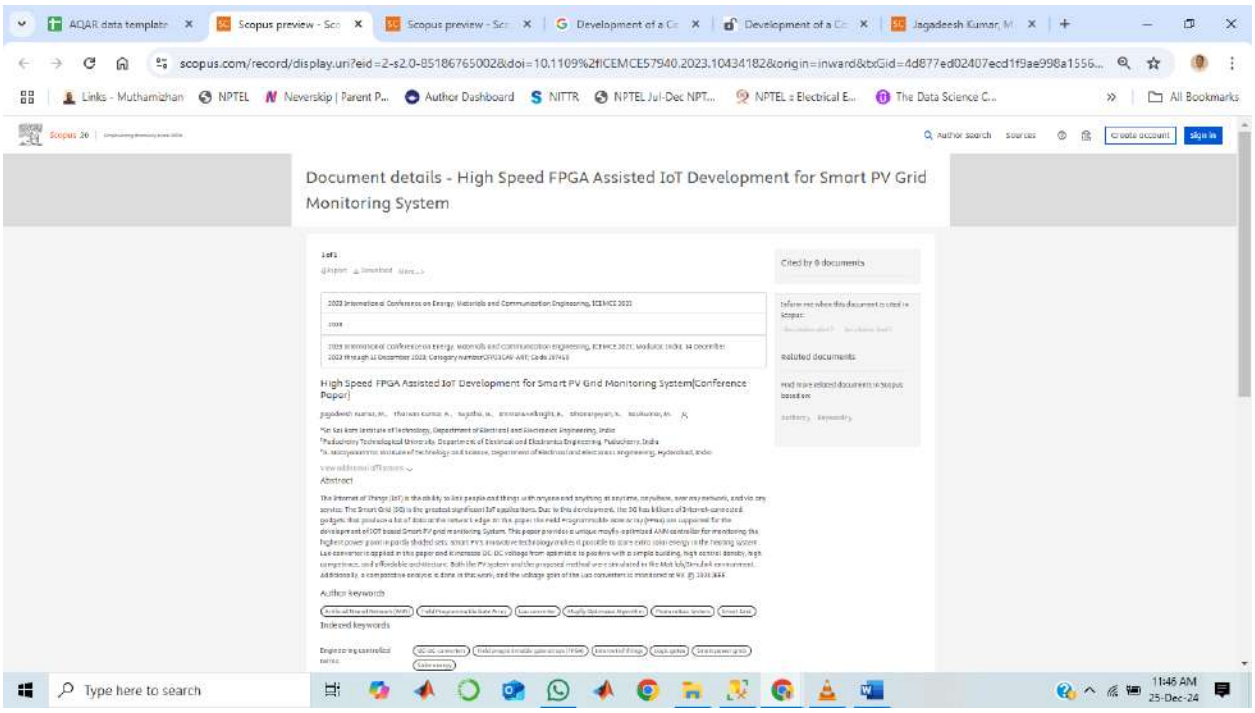
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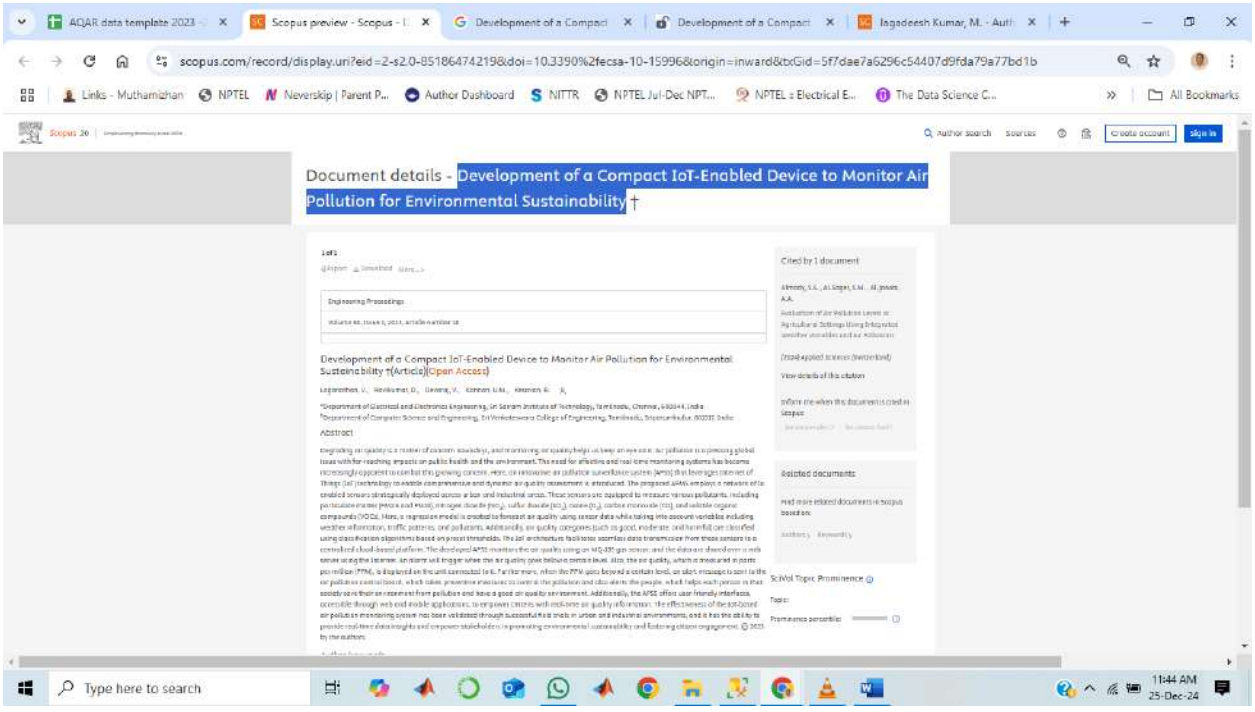
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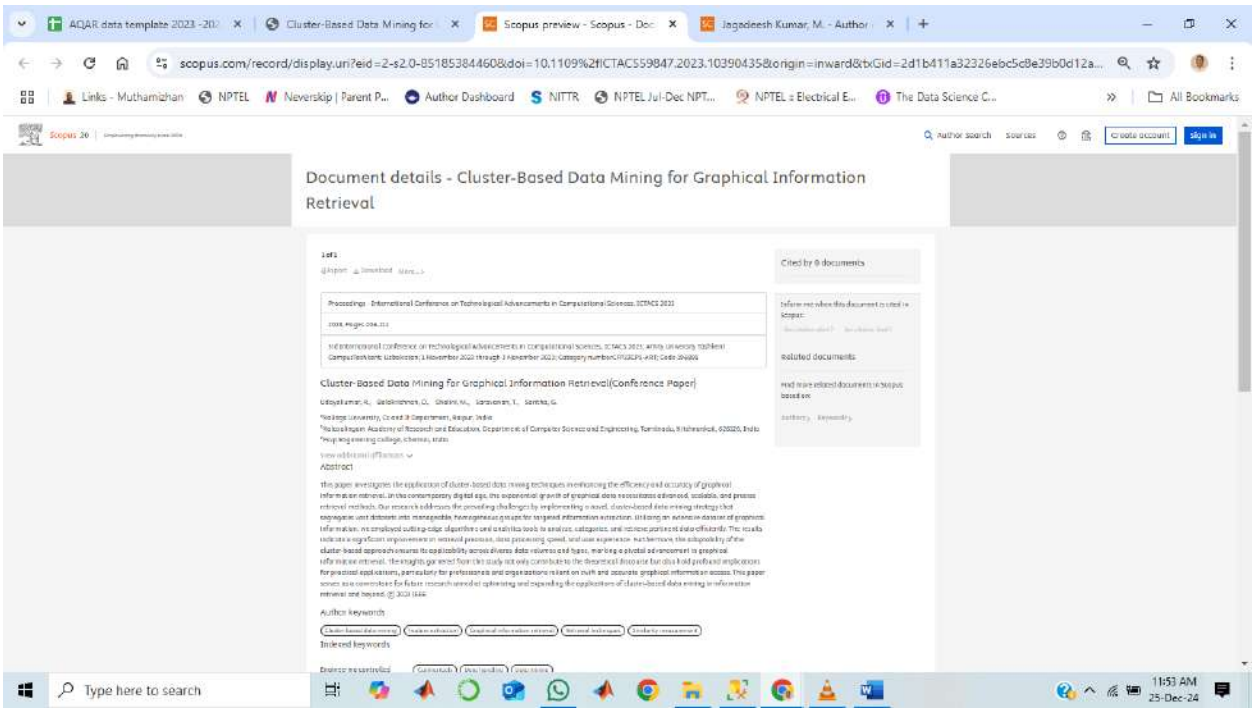
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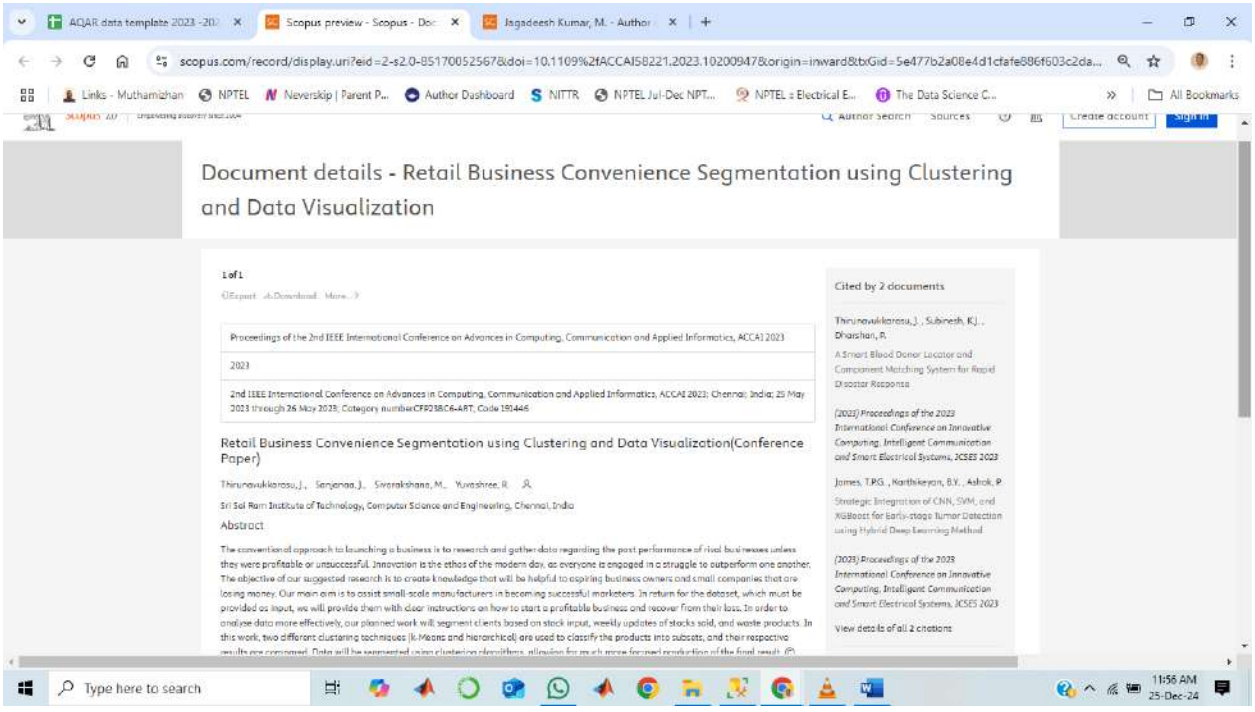
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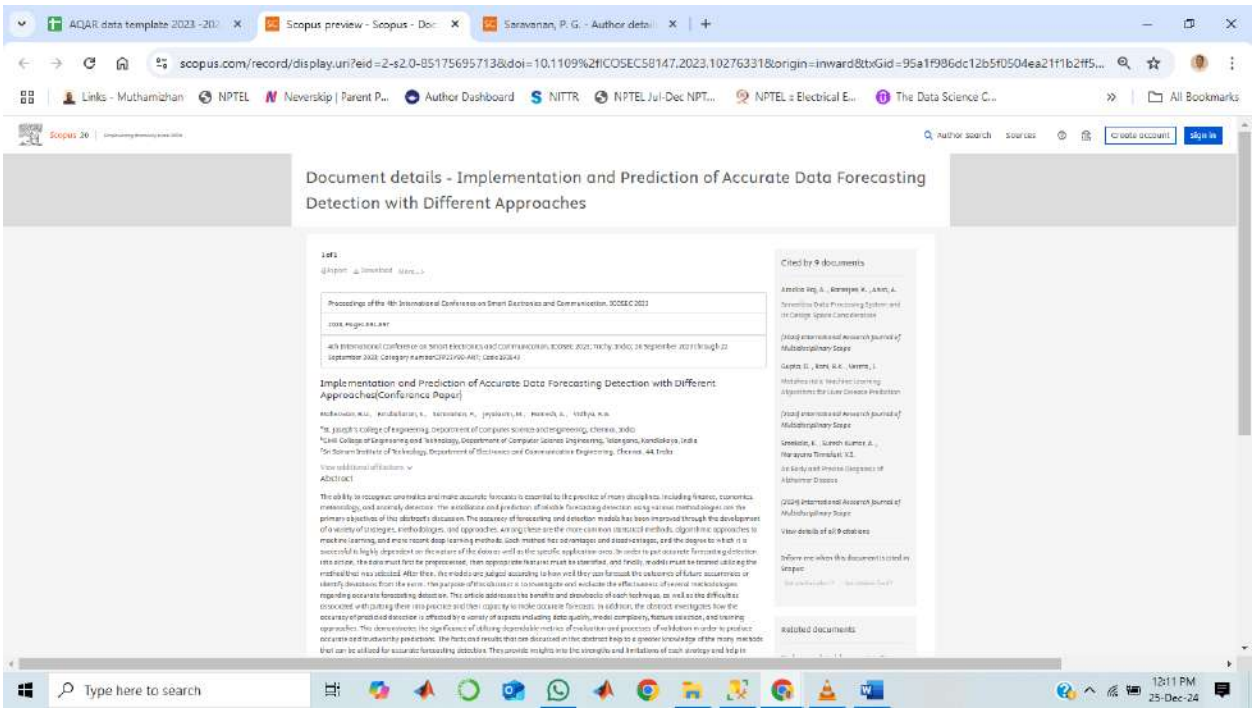
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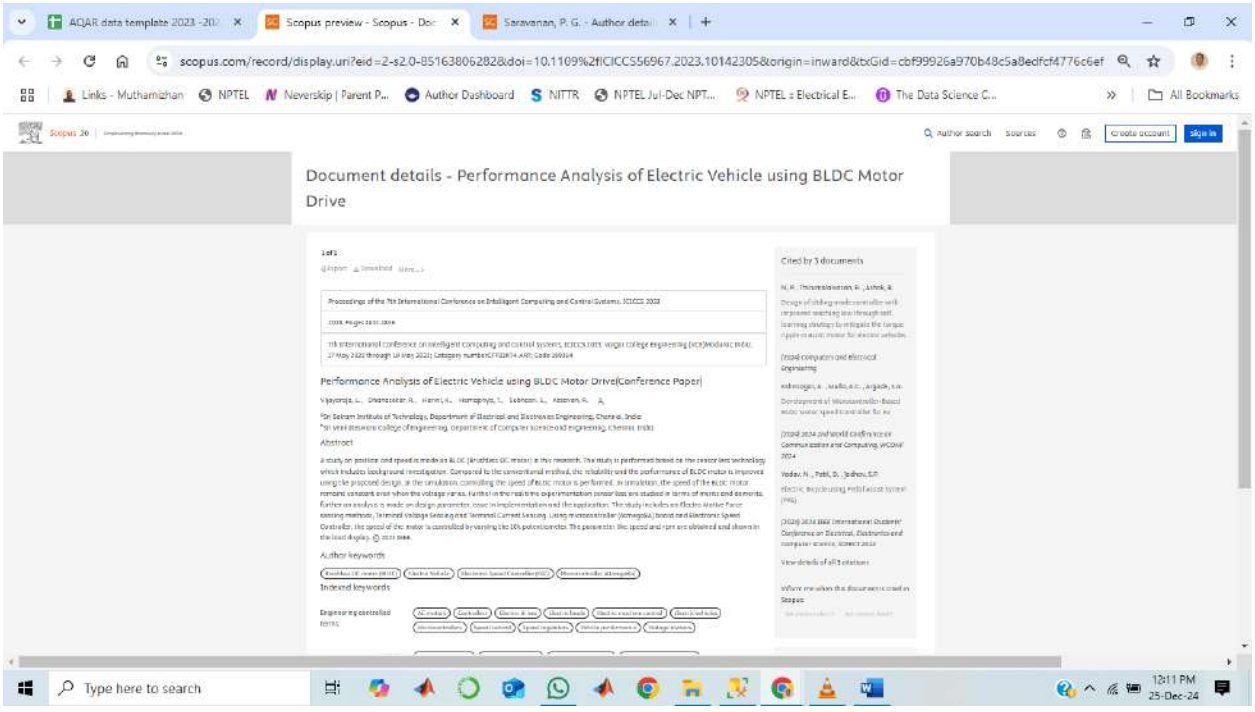
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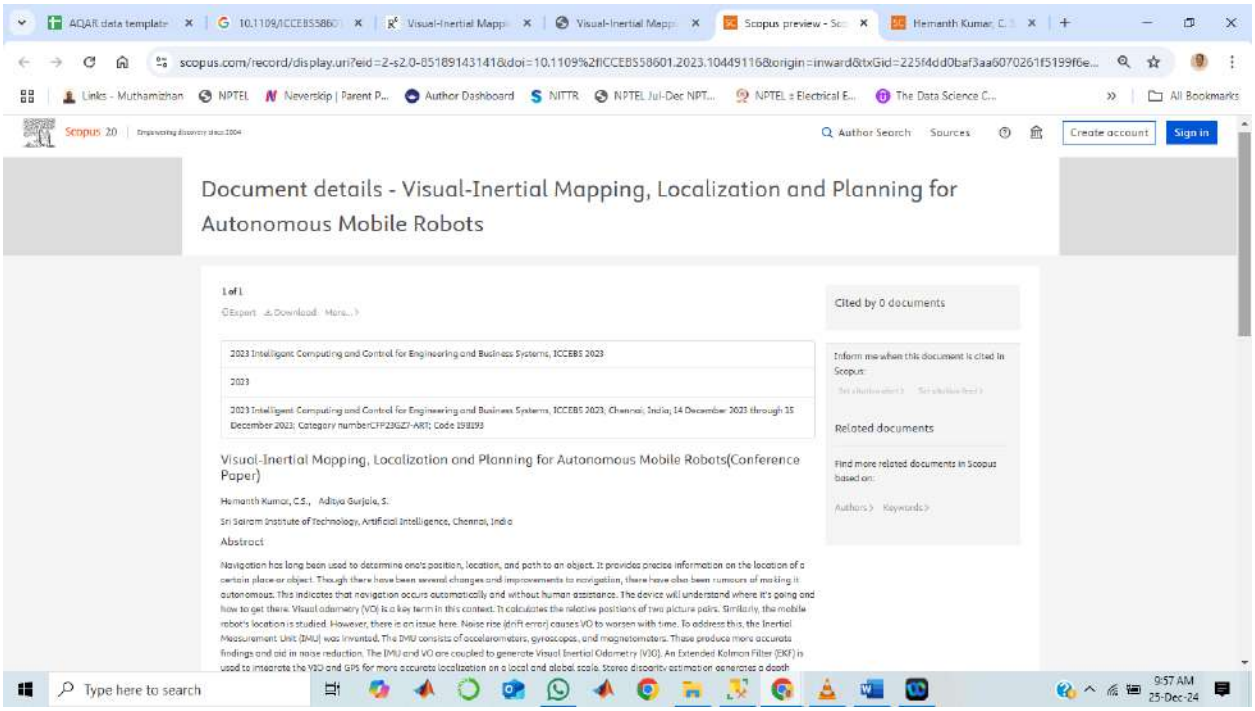
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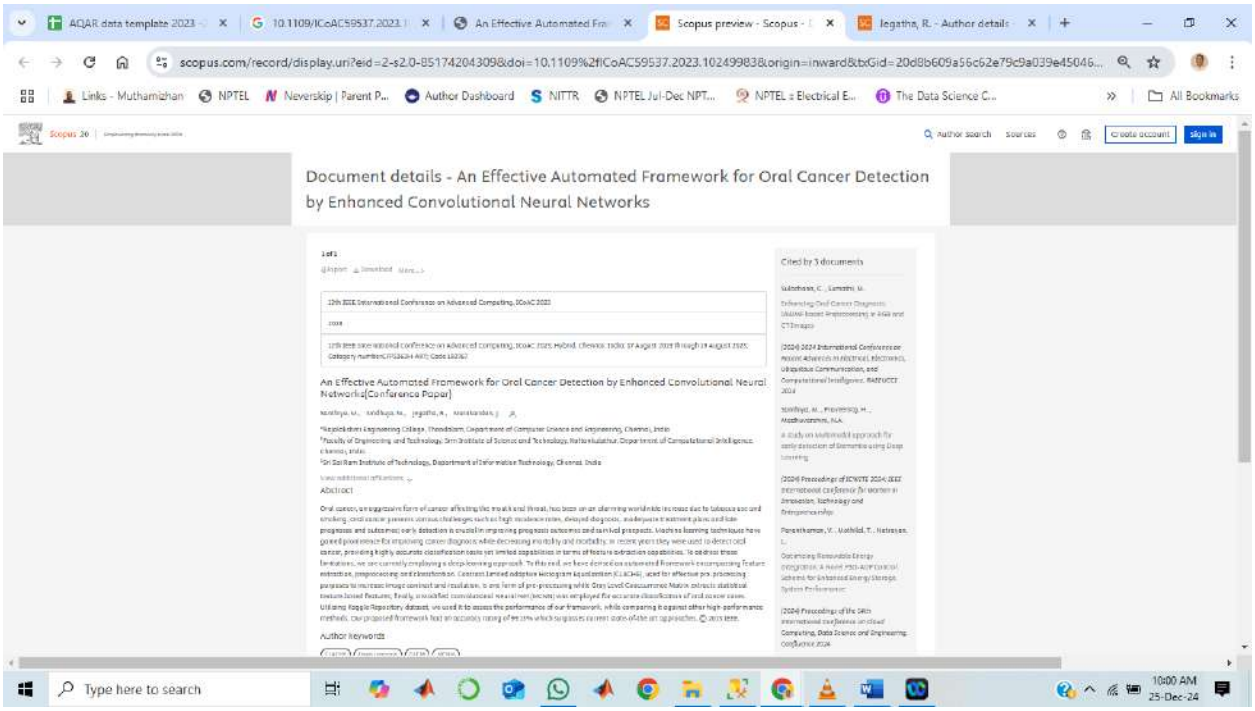
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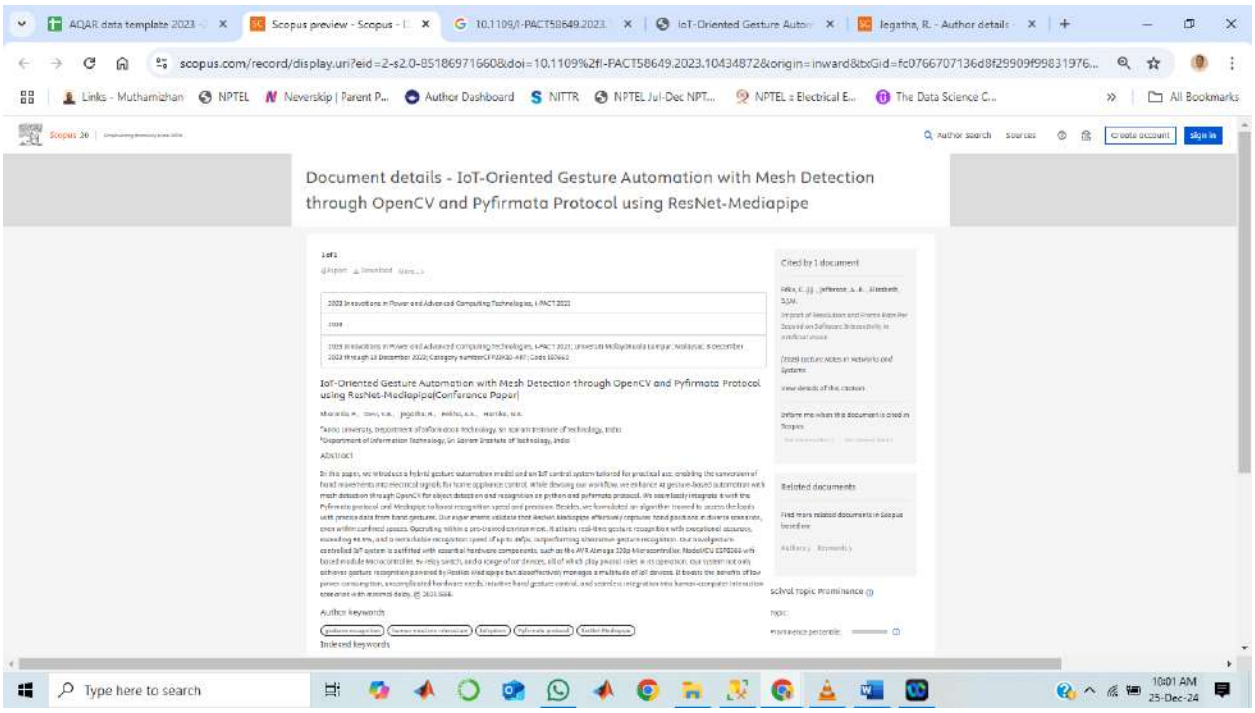
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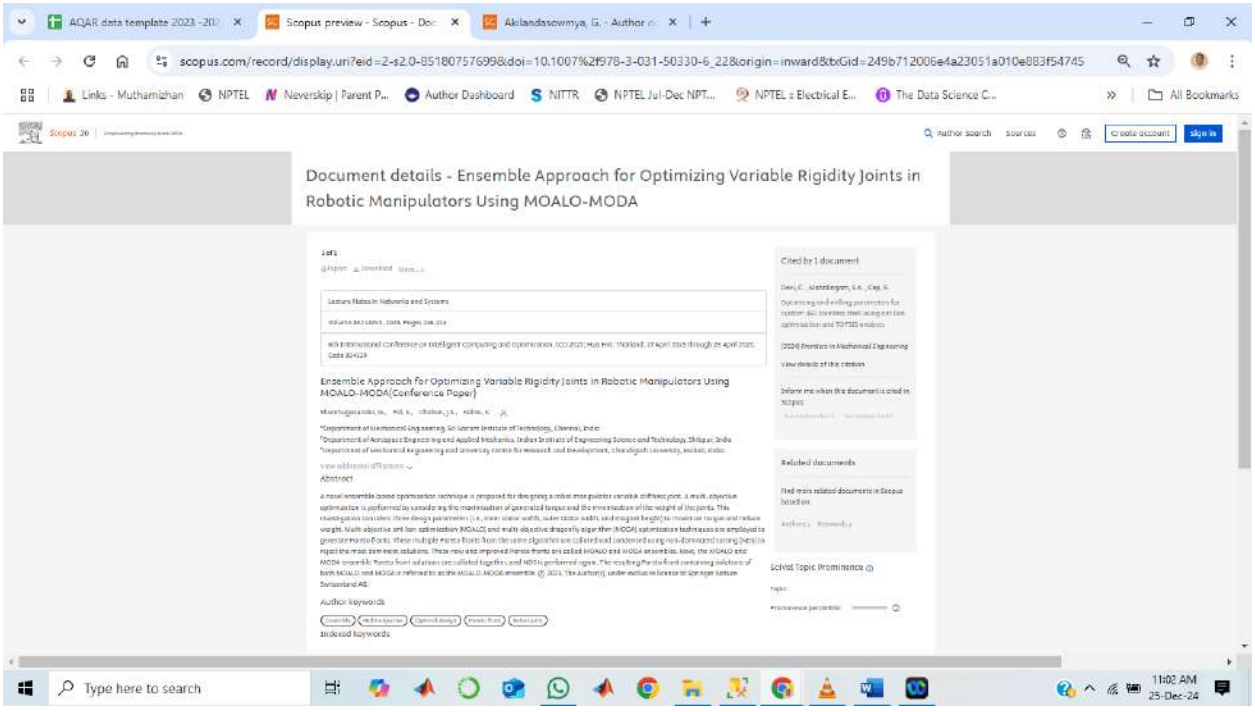
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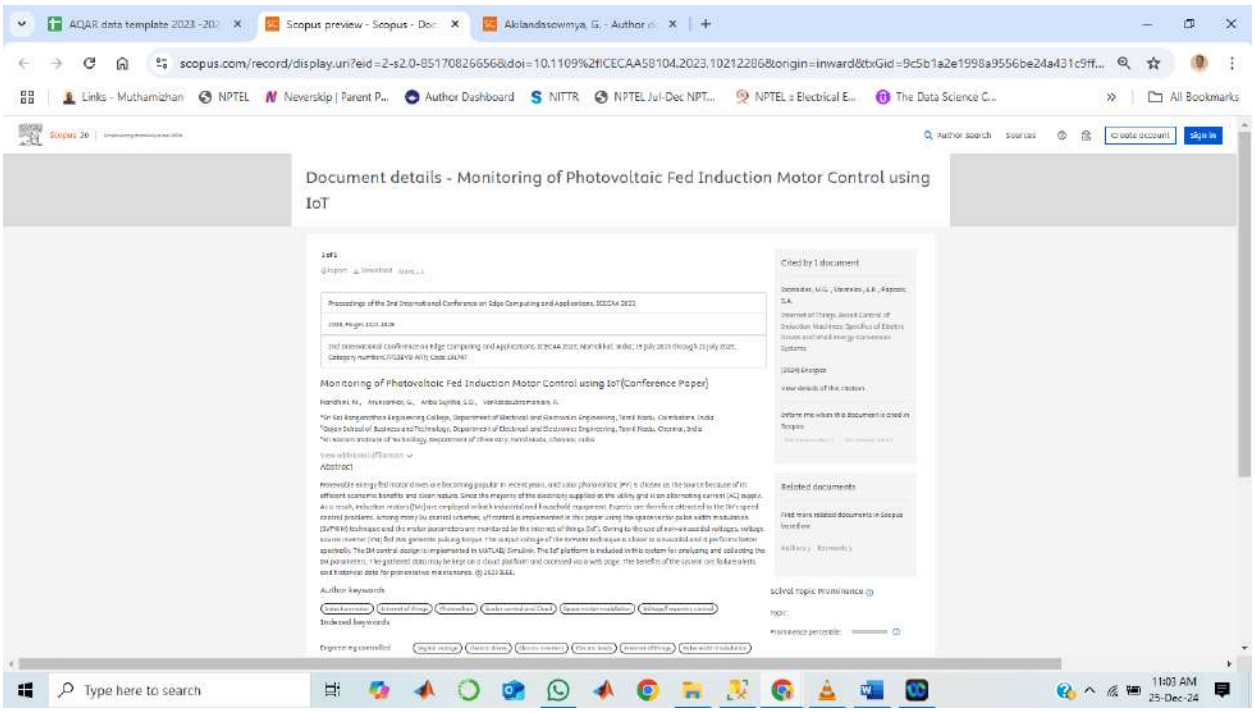
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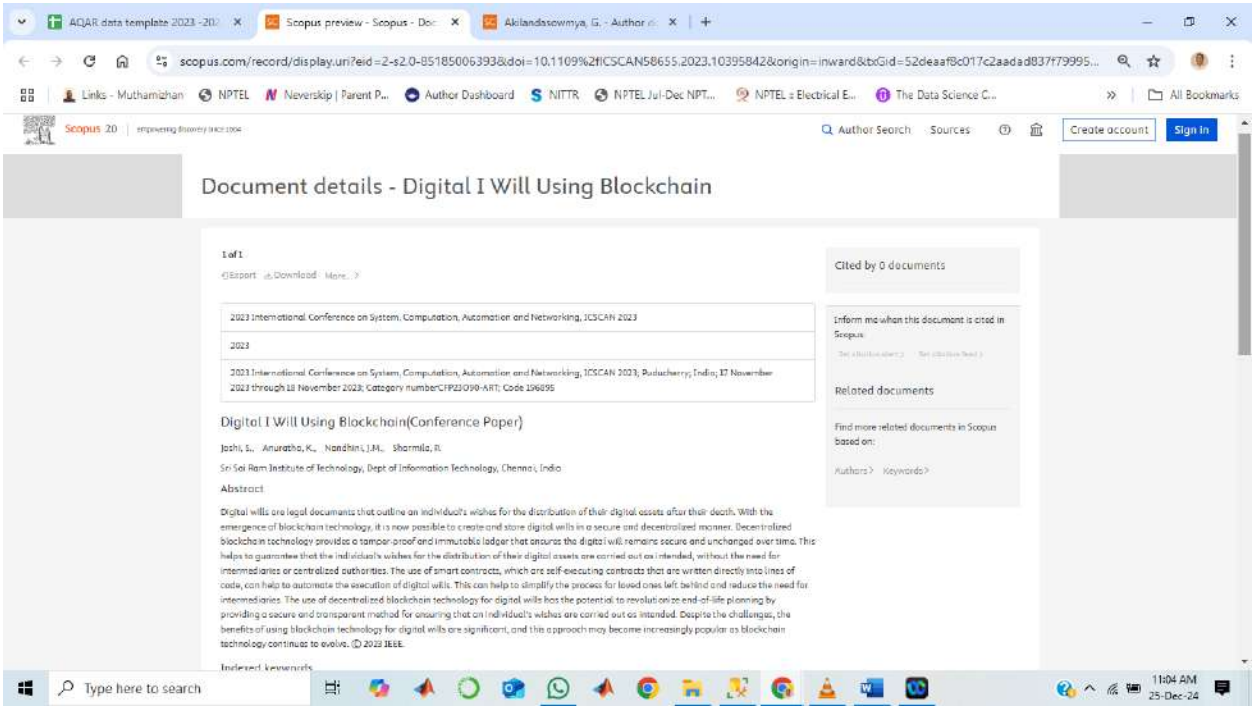
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Digital I Will Using Blockchain(Conference Paper)
Joshi, S. Anuratha, K. Nandhini, J.M. Sharmila, R.
Sri Sai Ram Institute of Technology, Dept of Information Technology, Chennai, India
Abstract
Digital wills are legal documents that outline an individual's wishes for the distribution of their digital assets after their death. With the emergence of blockchain technology, it is now possible to create and store digital wills in a secure and decentralized manner. Decentralized blockchain technology provides a tamper-proof and immutable ledger that ensures the digital will remains secure and unchanged over time. This helps to guarantee that the individual's wishes for the distribution of their digital assets are carried out as intended, without the need for intermediaries or centralized authorities. The use of smart contracts, which are self-executing contracts that are written directly into lines of code, can help to automate the execution of digital wills. This can help to simplify the process for loved ones left behind and reduce the need for intermediaries. The use of decentralized blockchain technology for digital wills has the potential to revolutionize end-of-life planning by providing a secure and transparent method for ensuring that an individual's wishes are carried out as intended. Despite the challenges, the benefits of using blockchain technology for digital wills are significant, and this approach may become increasingly popular as blockchain technology continues to evolve. © 2023 IEEE.
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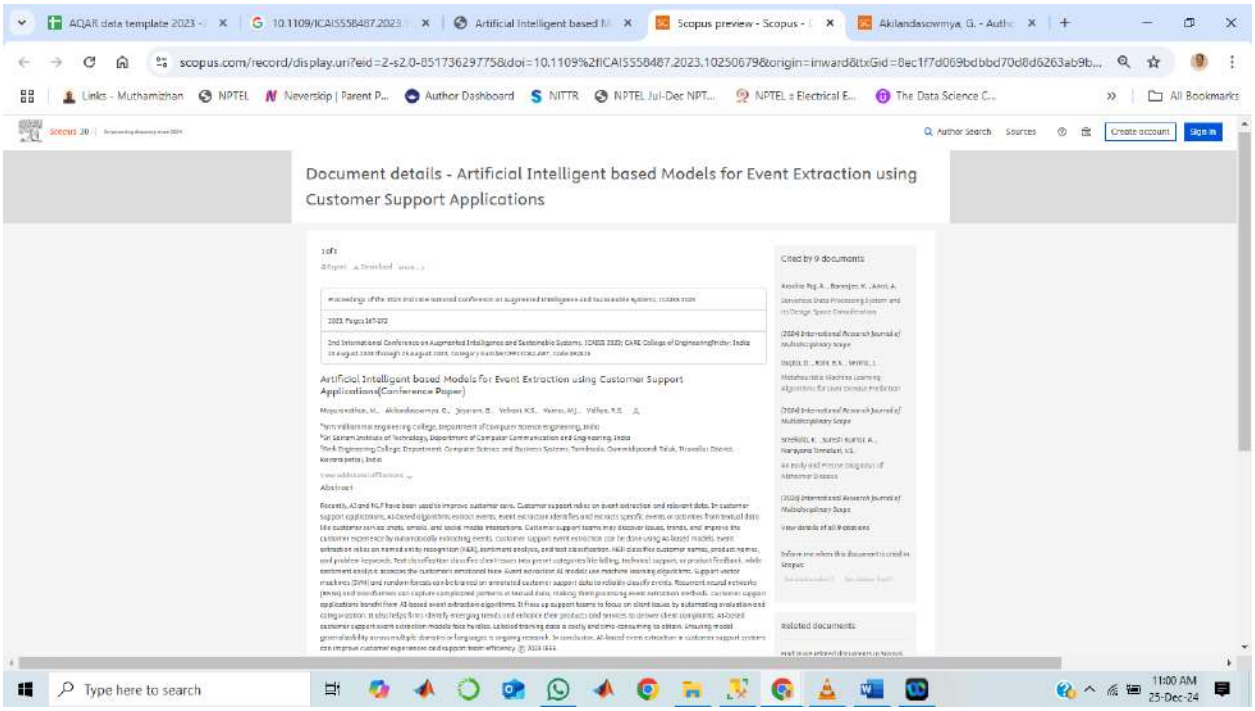
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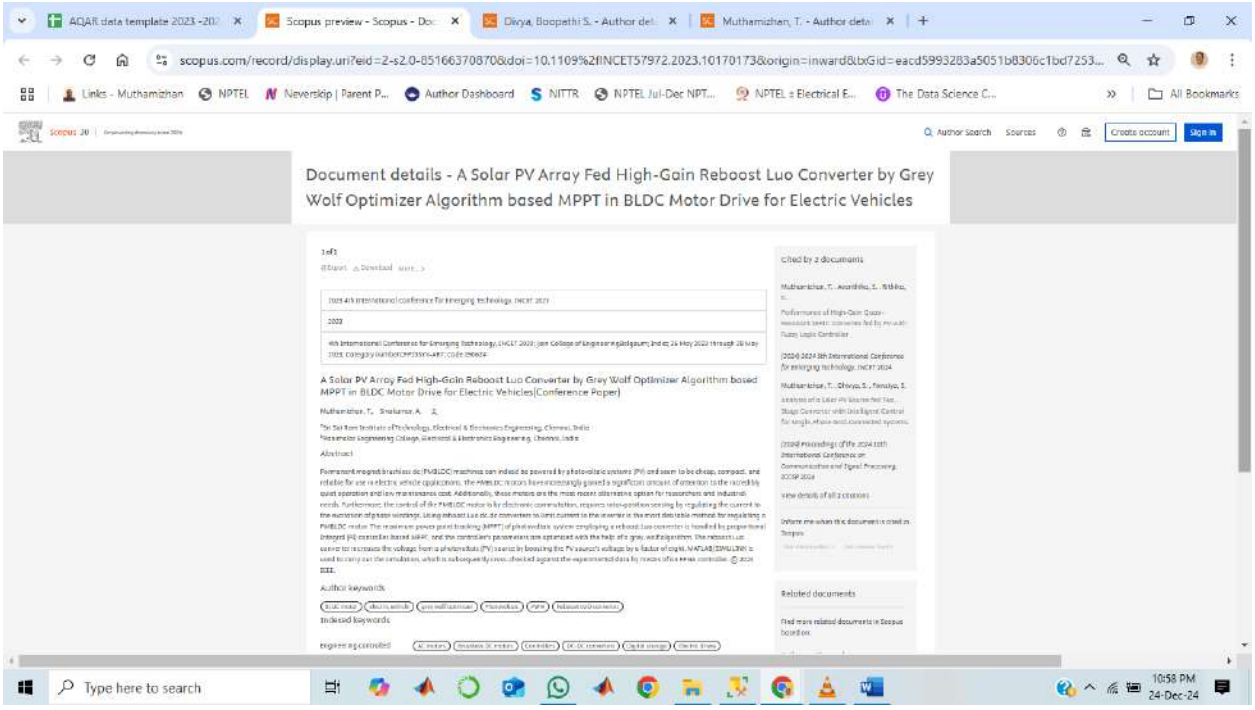
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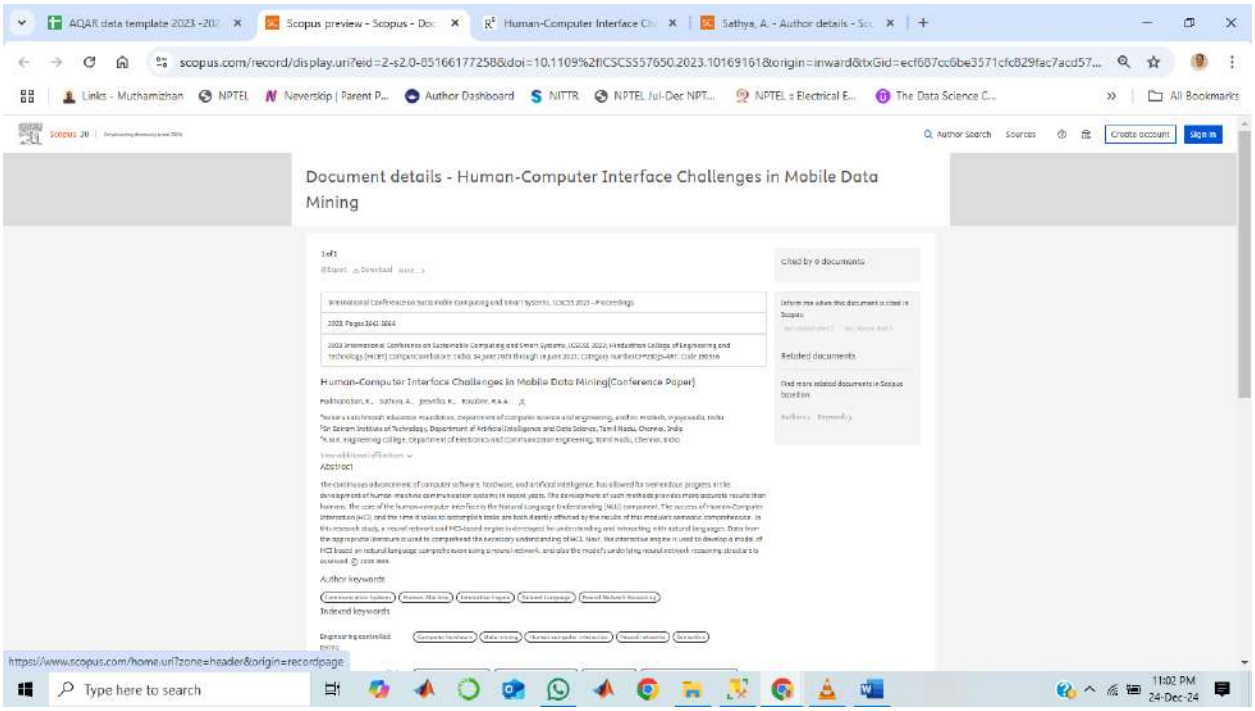
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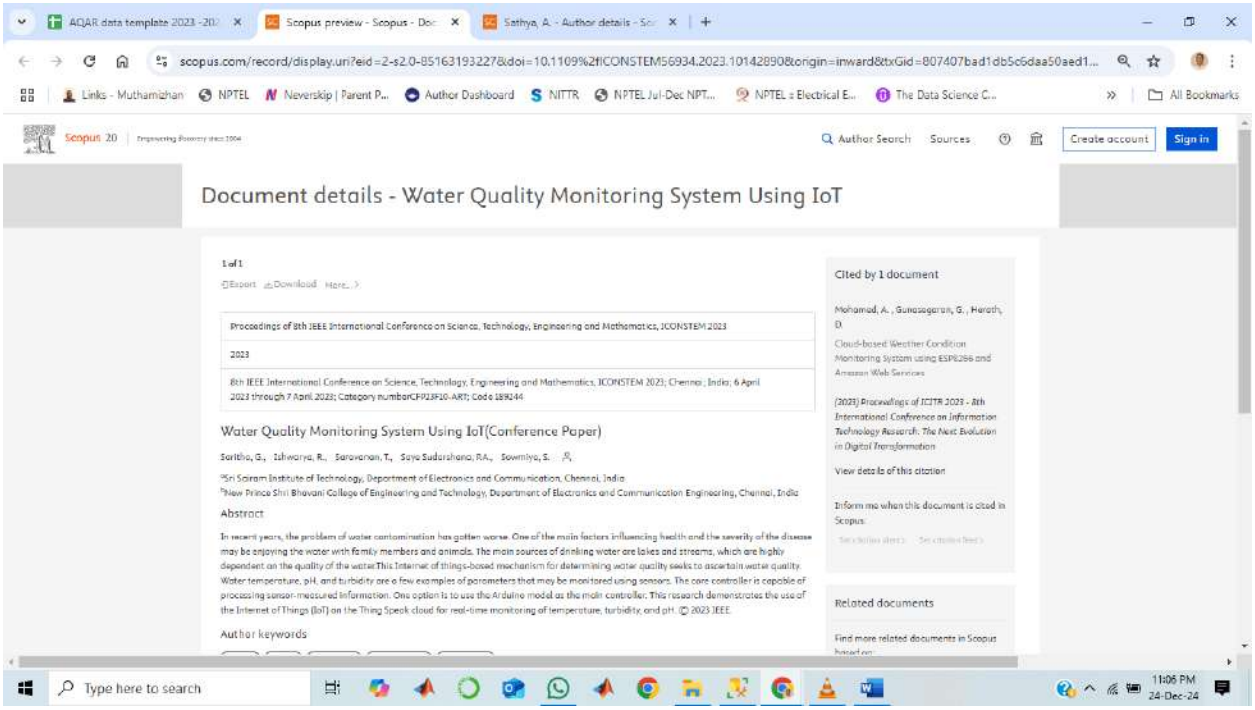
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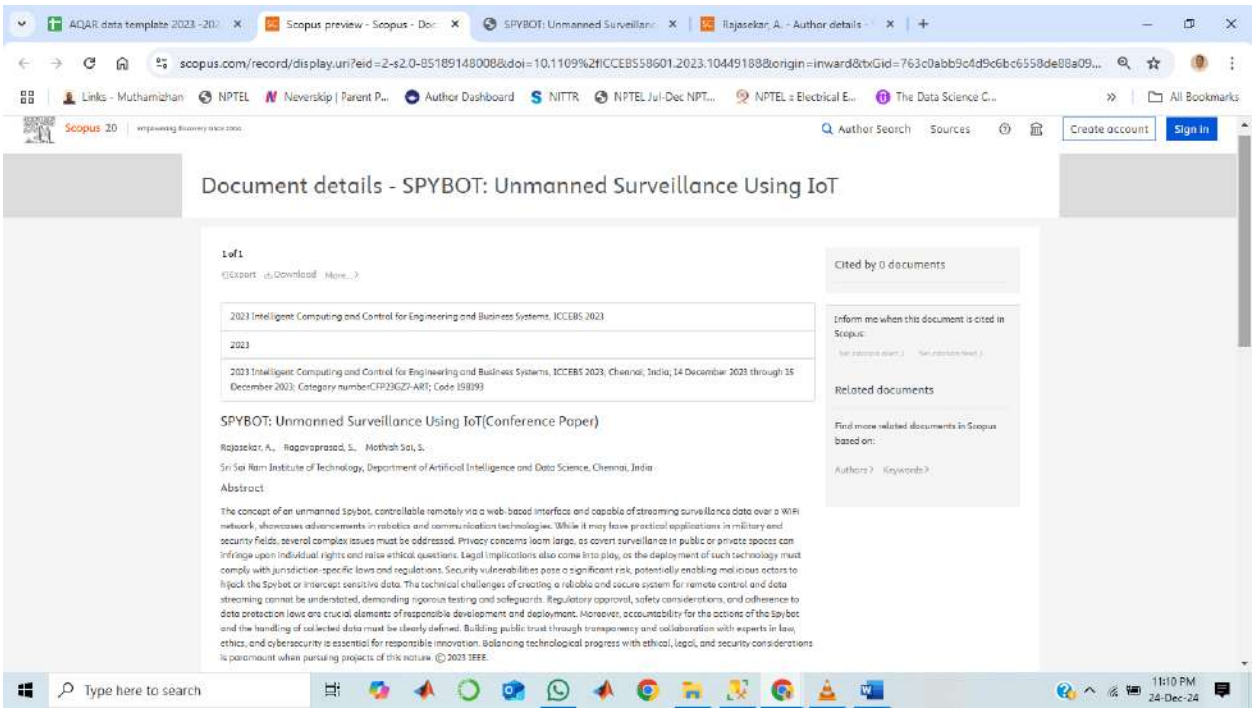

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SPYBOT: Unmanned Surveillance Using IoT(Conference Paper)

Rajasekar, A., Ragavaprasad, S., Mothish Sai, S.

Sri Sai Ram Institute of Technology, Department of Artificial Intelligence and Data Science, Chennai, India

Abstract

The concept of an unmanned Spybot, controllable remotely via a web-based interface and capable of streaming surveillance data over a WiFi network, showcases advancements in robotics and communication technologies. While it may have practical applications in military and security fields, several complex issues must be addressed. Privacy concerns loom large, as covert surveillance in public or private spaces can infringe upon individual rights and raise ethical questions. Legal implications also come into play, as the deployment of such technology must comply with jurisdiction-specific laws and regulations. Security vulnerabilities pose a significant risk, potentially enabling malicious actors to hijack the Spybot or intercept sensitive data. The technical challenges of creating a reliable and secure system for remote control and data streaming cannot be understated, demanding rigorous testing and safeguards. Regulatory approval, safety considerations, and adherence to data protection laws are crucial elements of responsible development and deployment. Moreover, accountability for the actions of the Spybot and the handling of collected data must be clearly defined. Building public trust through transparency and collaboration with experts in law, ethics, and cybersecurity is essential for responsible innovation. Balancing technological progress with ethical, legal, and security considerations is paramount when pursuing projects of this nature. © 2023 IEEE.

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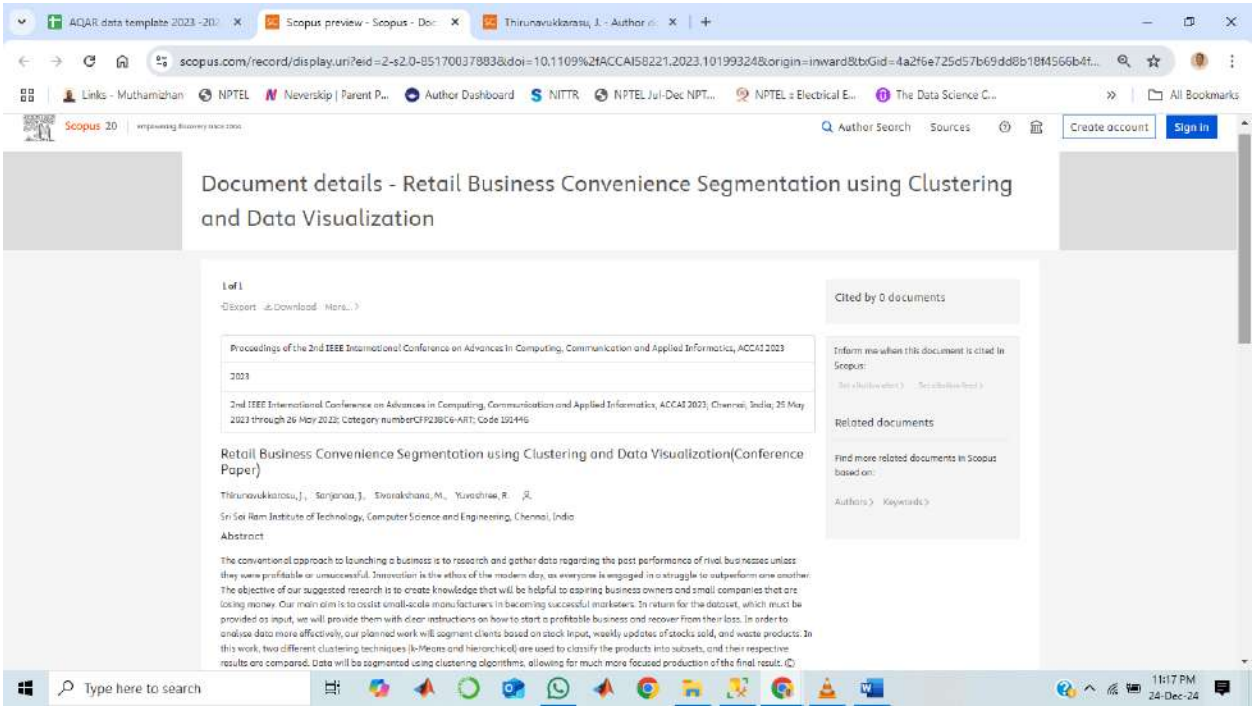

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Retail Business Convenience Segmentation using Clustering and Data Visualization(Conference Paper)

Thirunavukkarasu, J., Sanjanaa, J., Sivarakshana, M., Yuvashree, R.

Sri Sai Ram Institute of Technology, Computer Science and Engineering, Chennai, India

Abstract

The conventional approach to launching a business is to research and gather data regarding the past performance of rival businesses unless they were profitable or unsuccessful. Innovation is the ethos of the modern day, as everyone is engaged in a struggle to outperform one another. The objective of our suggested research is to create knowledge that will be helpful to aspiring business owners and small companies that are losing money. Our main aim is to assist small-scale manufacturers in becoming successful marketers. In return for the dataset, which must be provided as input, we will provide them with clear instructions on how to start a profitable business and recover from their loss. In order to analyse data more effectively, our planned work will segment clients based on stock input, weekly updates of stocks sold, and waste products. In this work, two different clustering techniques (k-Means and hierarchical) are used to classify the products into subsets, and their respective results are compared. Data will be segmented using clustering algorithms, allowing for much more focused production of the final result. ©

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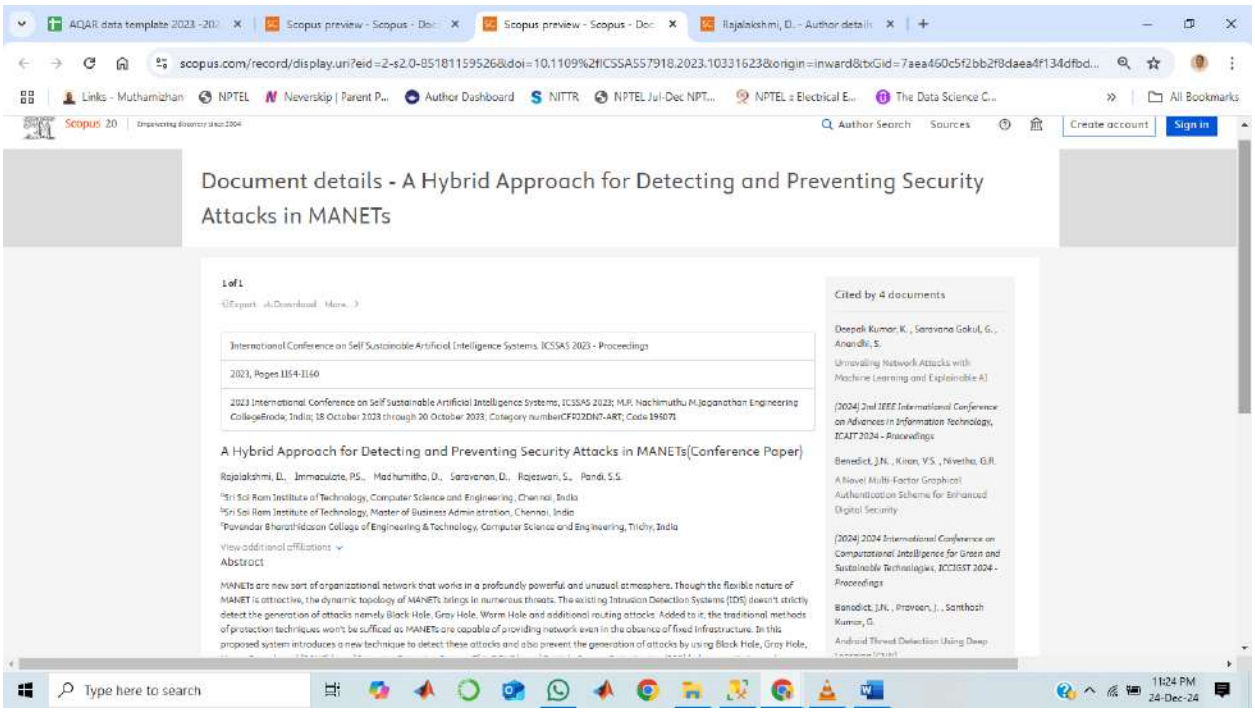
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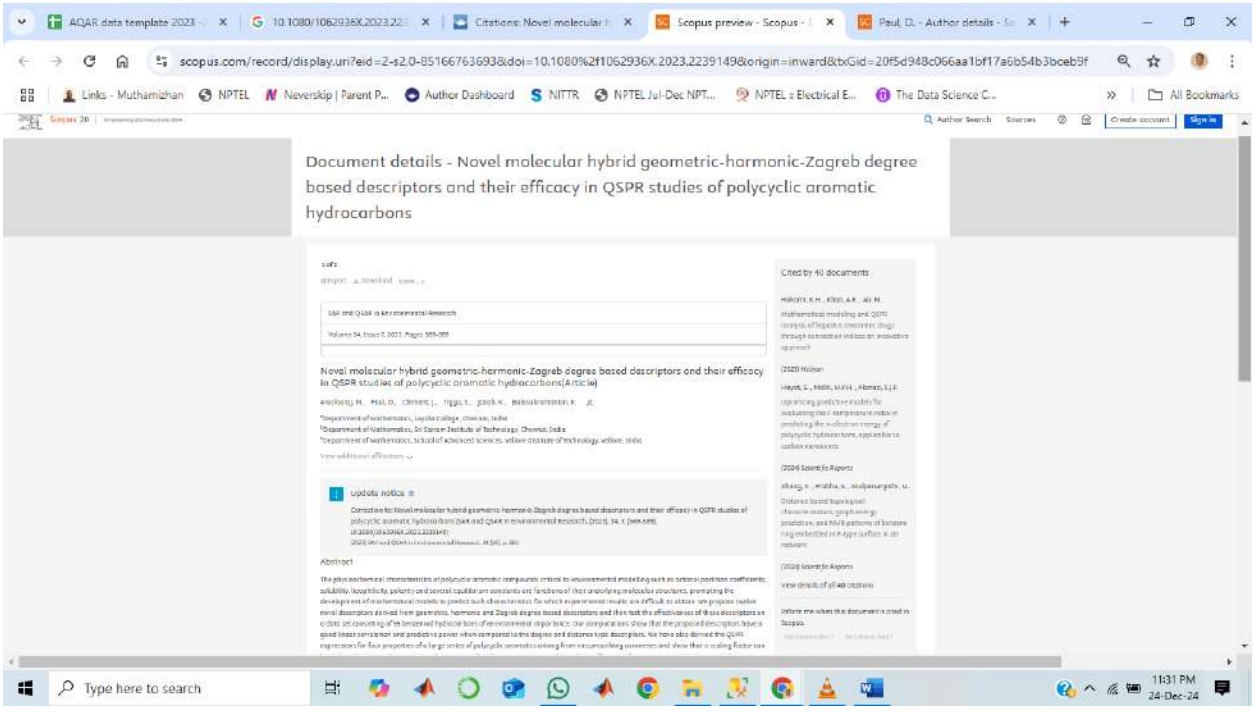
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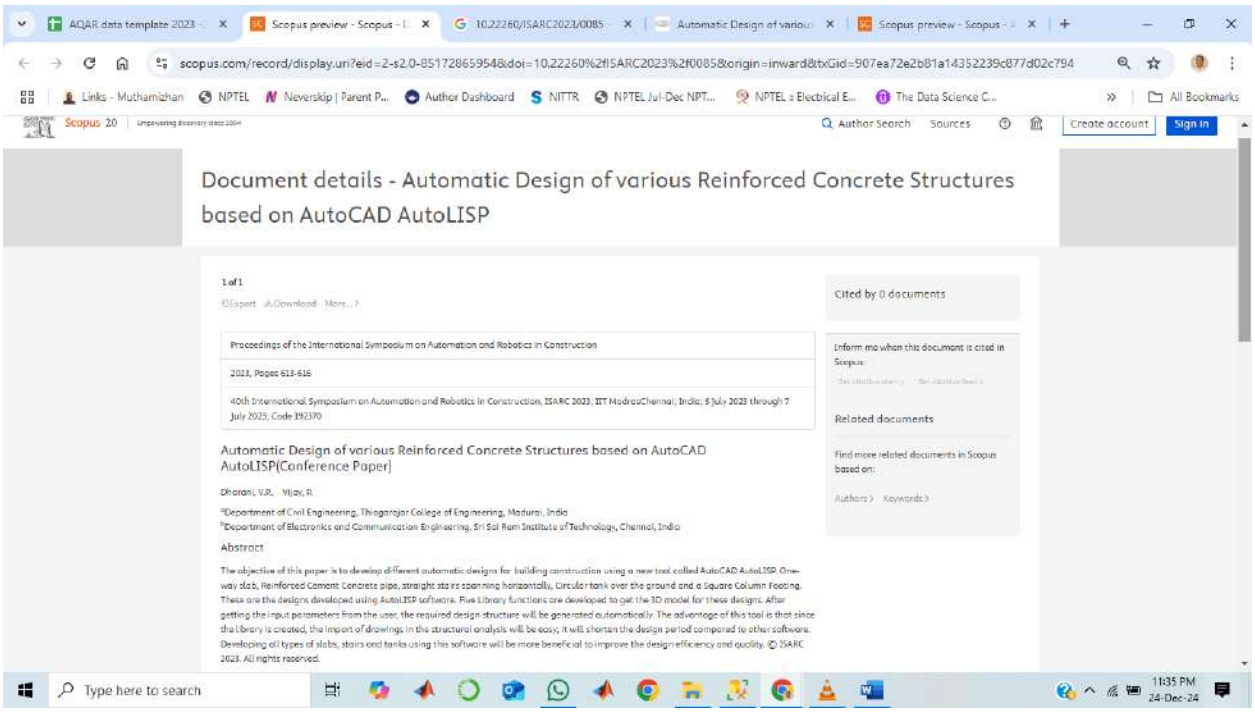
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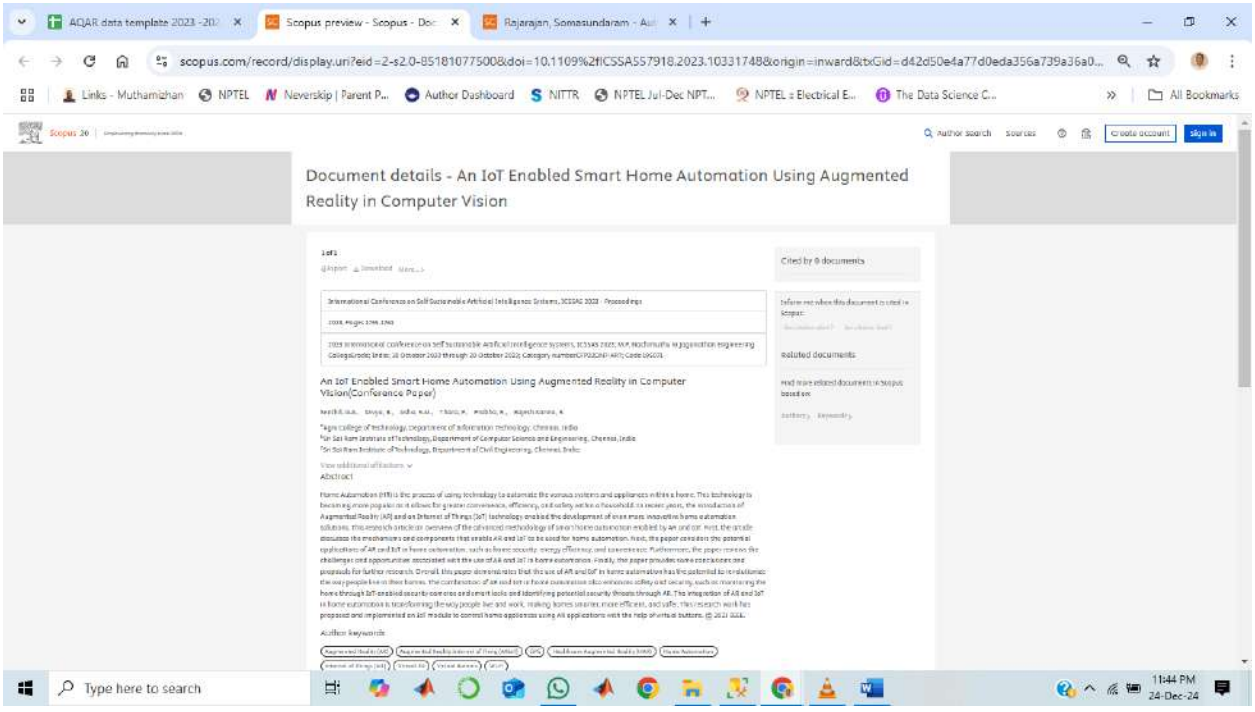
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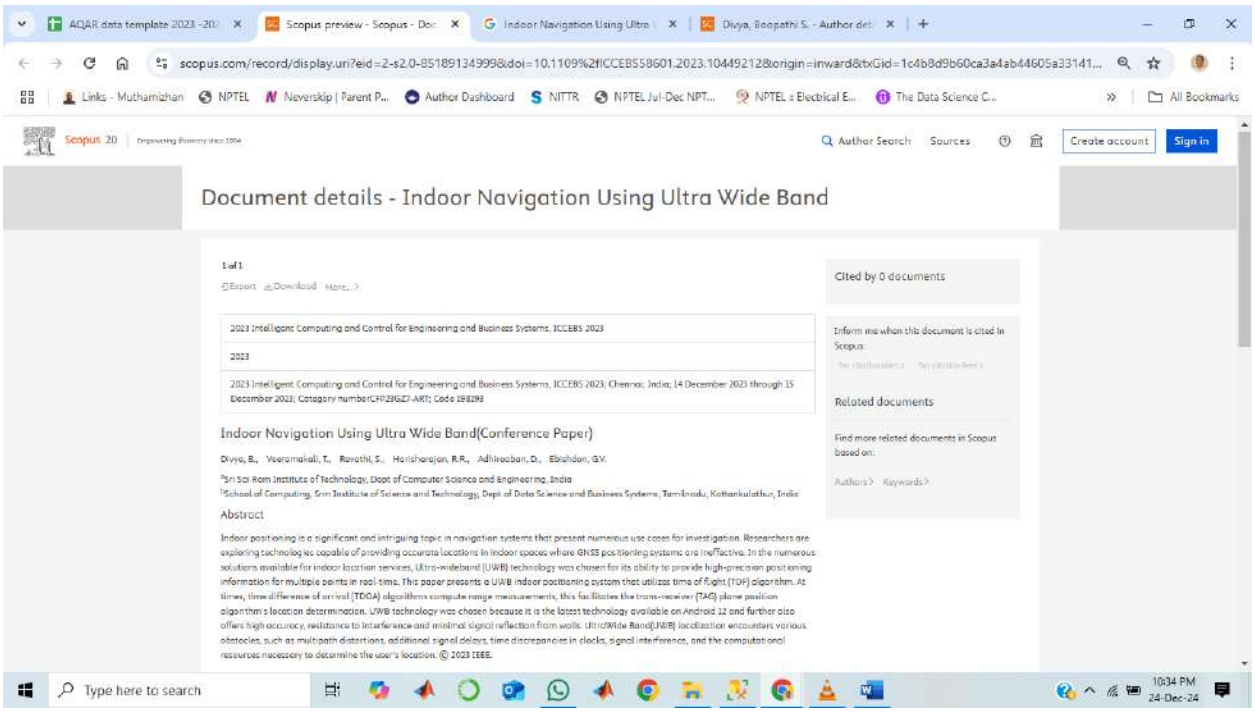
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Indoor Navigation Using Ultra Wide Band(Conference Paper)
Divya, B., Veeramakali, T., Revathi, S., Harisharajan, R.R., Adhiraoban, D., Ebishdon, G.V.
[1]Sri Sai Ram Institute of Technology, Dept of Computer Science and Engineering, India
[2]School of Computing, Srm Institute of Science and Technology, Dept of Data Science and Business Systems, Tamilnadu, Kattankulathur, India
Abstract
Indoor positioning is a significant and intriguing topic in navigation systems that present numerous use cases for investigation. Researchers are exploring technologies capable of providing accurate locations in indoor spaces where GNSS positioning systems are ineffective. In the numerous solutions available for indoor location services, Ultra-wideband (UWB) technology was chosen for its ability to provide high-precision positioning information for multiple points in real-time. This paper presents a UWB indoor positioning system that utilizes time of flight (TOF) algorithm. At times, time difference of arrival (TDOA) algorithms compute range measurements, this facilitates the trans-receiver (TAG) plane position algorithm's location determination. UWB technology was chosen because it is the latest technology available on Android 12 and further also offers high accuracy, resistance to interference and minimal signal reflection from walls. UltraWide Band(UWB) localization encounters various obstacles, such as multipath distortions, additional signal delays, time discrepancies in clocks, signal interference, and the computational resources necessary to determine the user's location. © 2023 IEEE.
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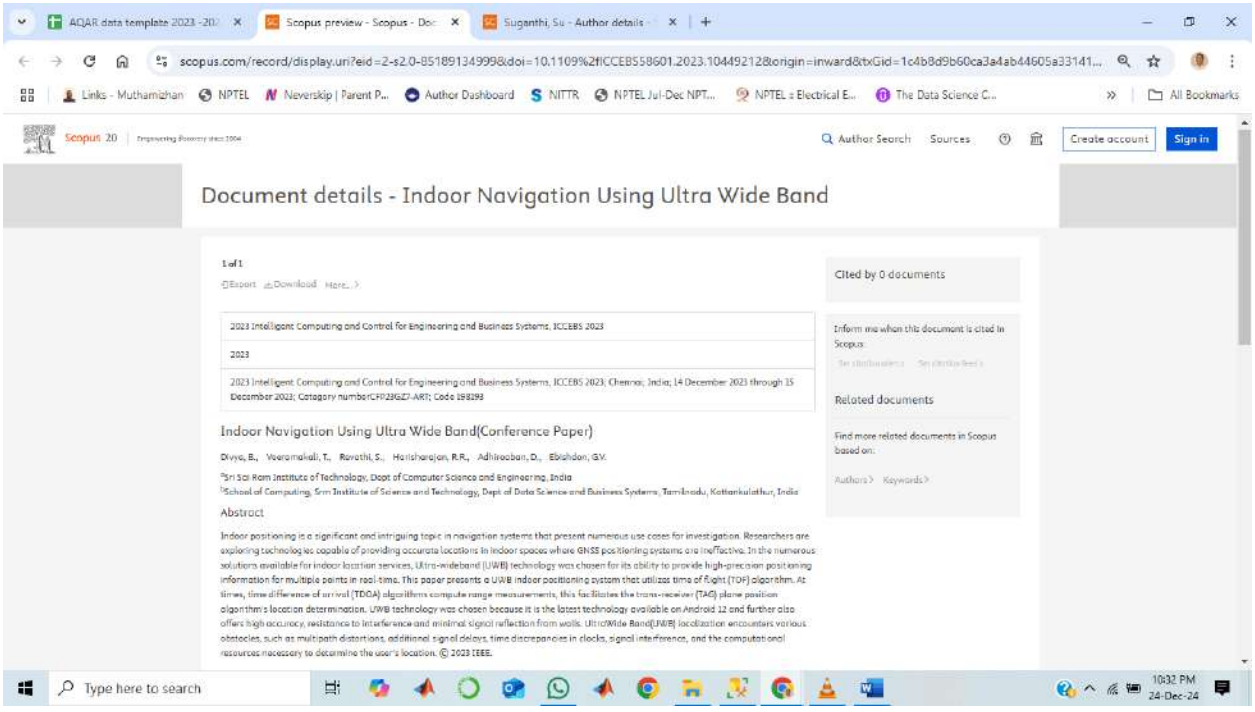
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[1]Sri Sai Ram Institute of Technology, Dept of Computer Science and Engineering, India
[2]School of Computing, Srm Institute of Science and Technology, Dept of Data Science and Business Systems, Tamilnadu, Kattankulathur, India
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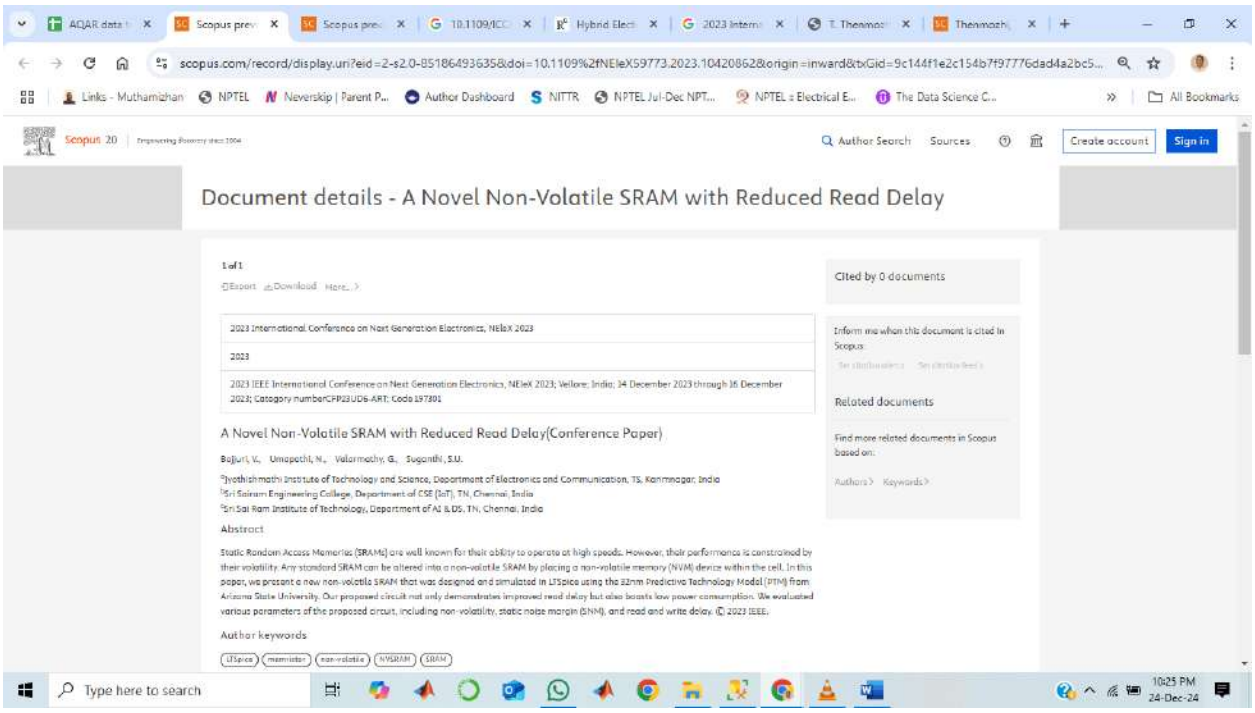
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Bajuri, V., Umapathi, N., Velarmathy, G., Suganthi, S.U.
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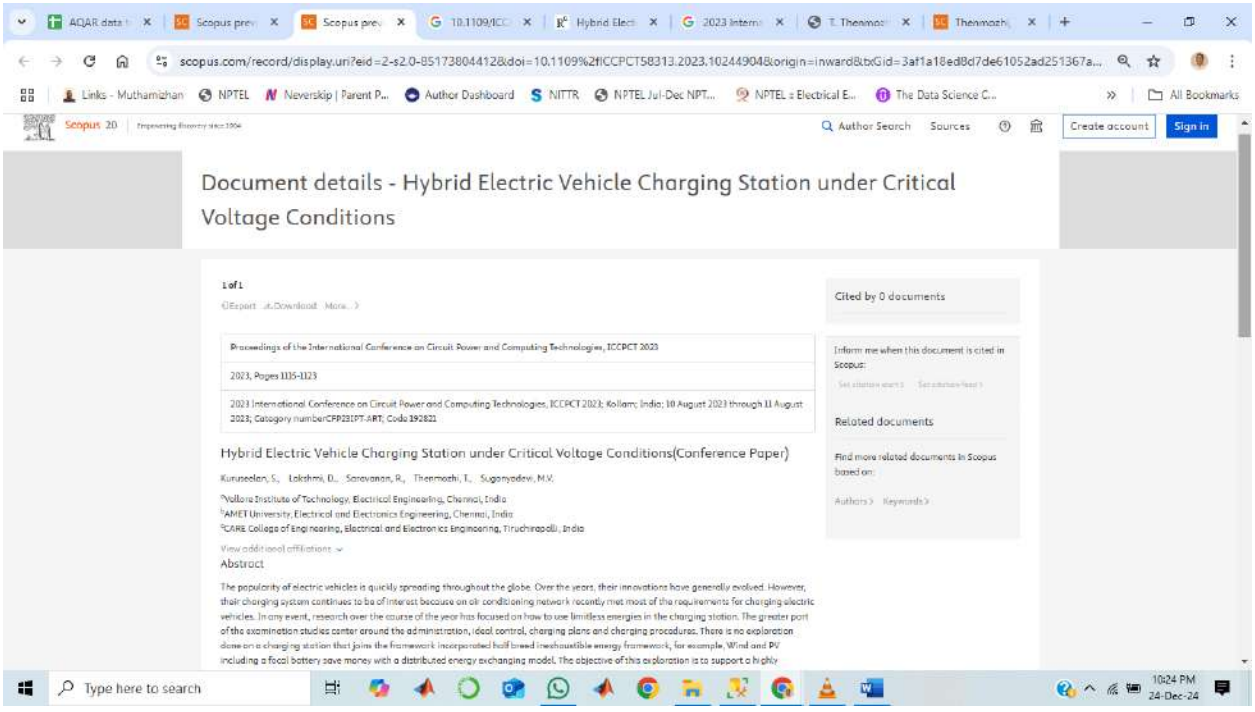
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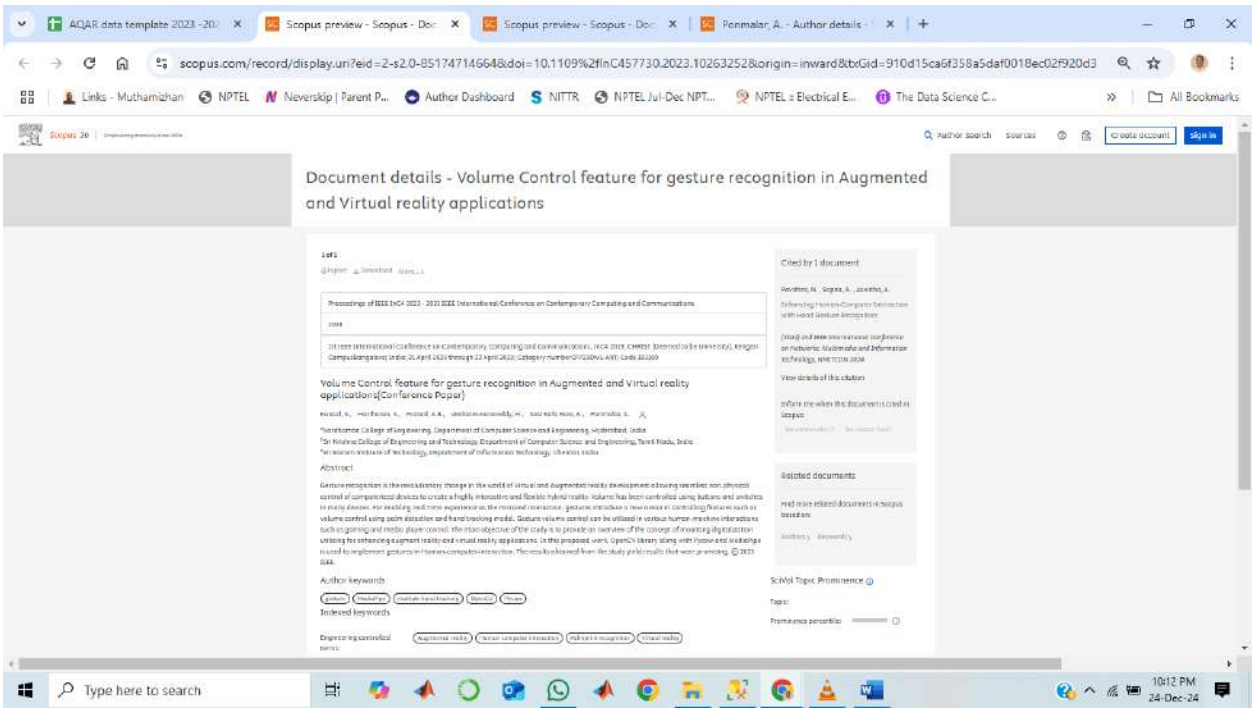
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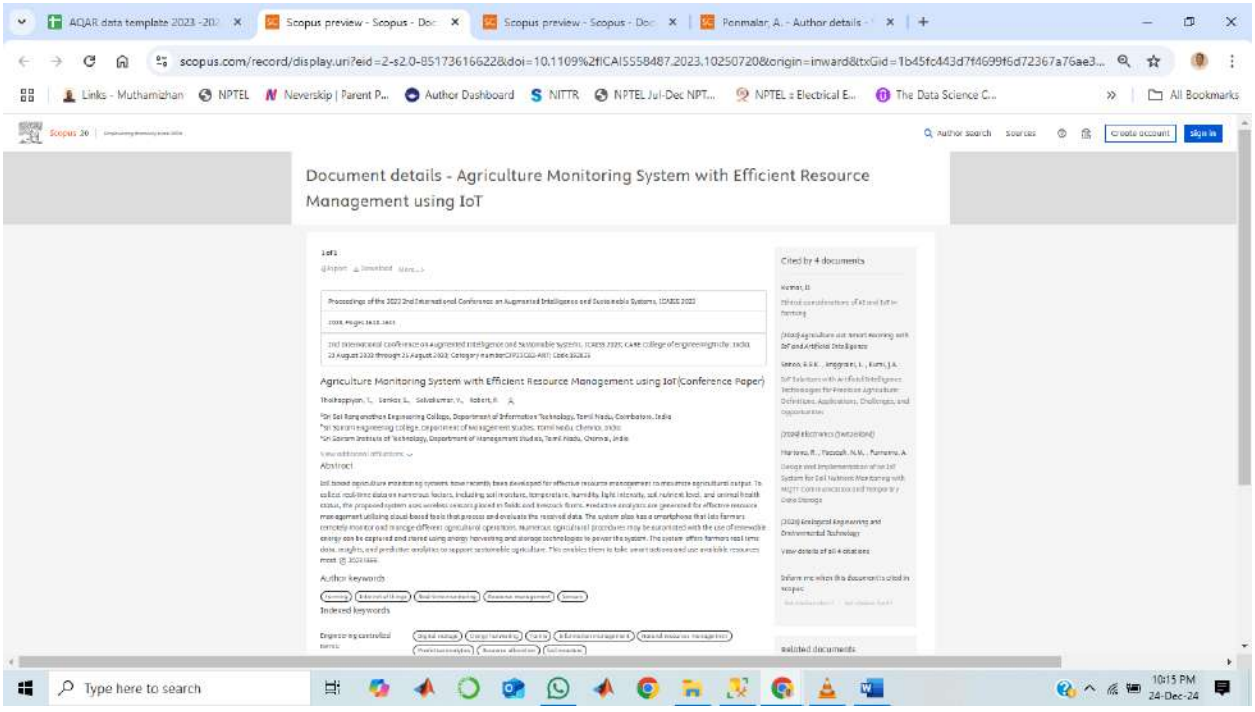
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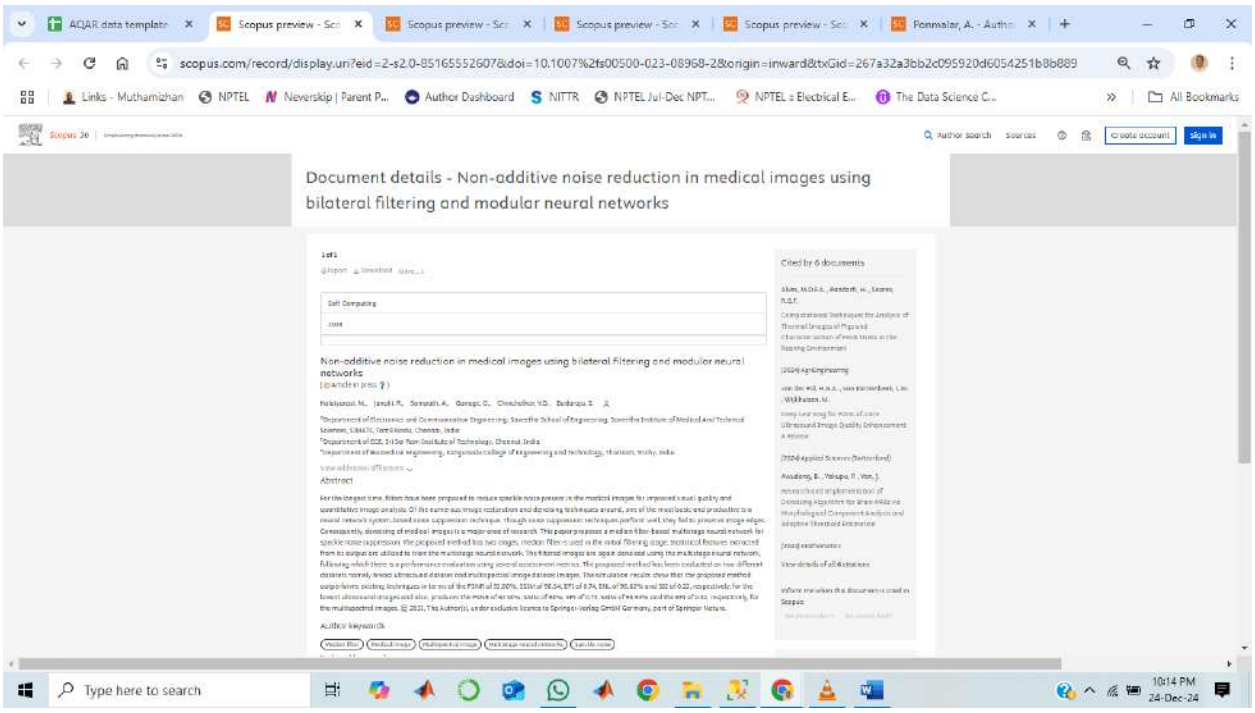
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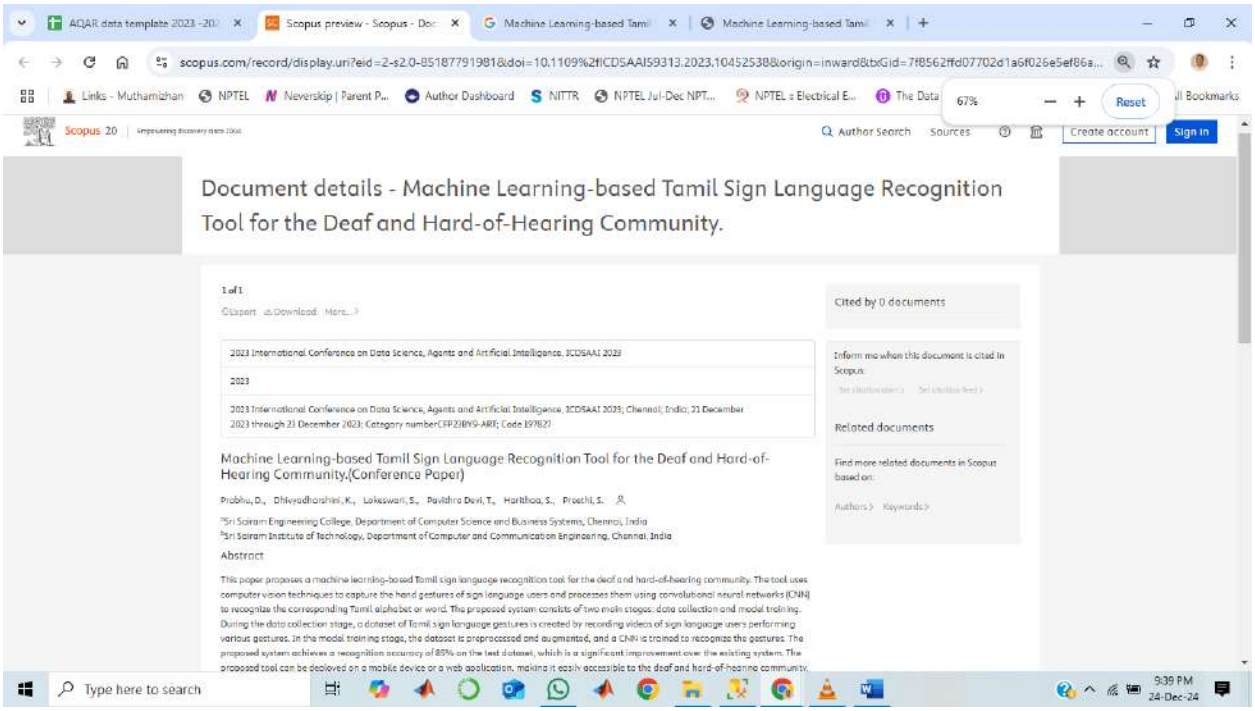
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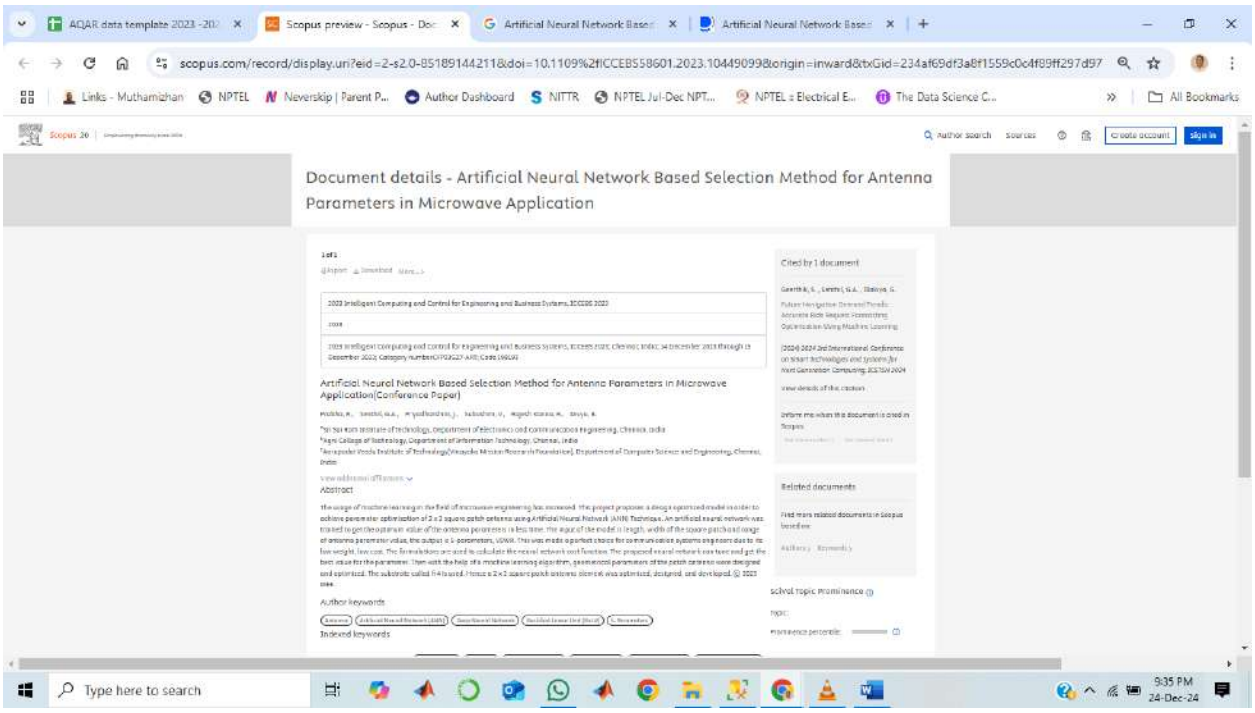
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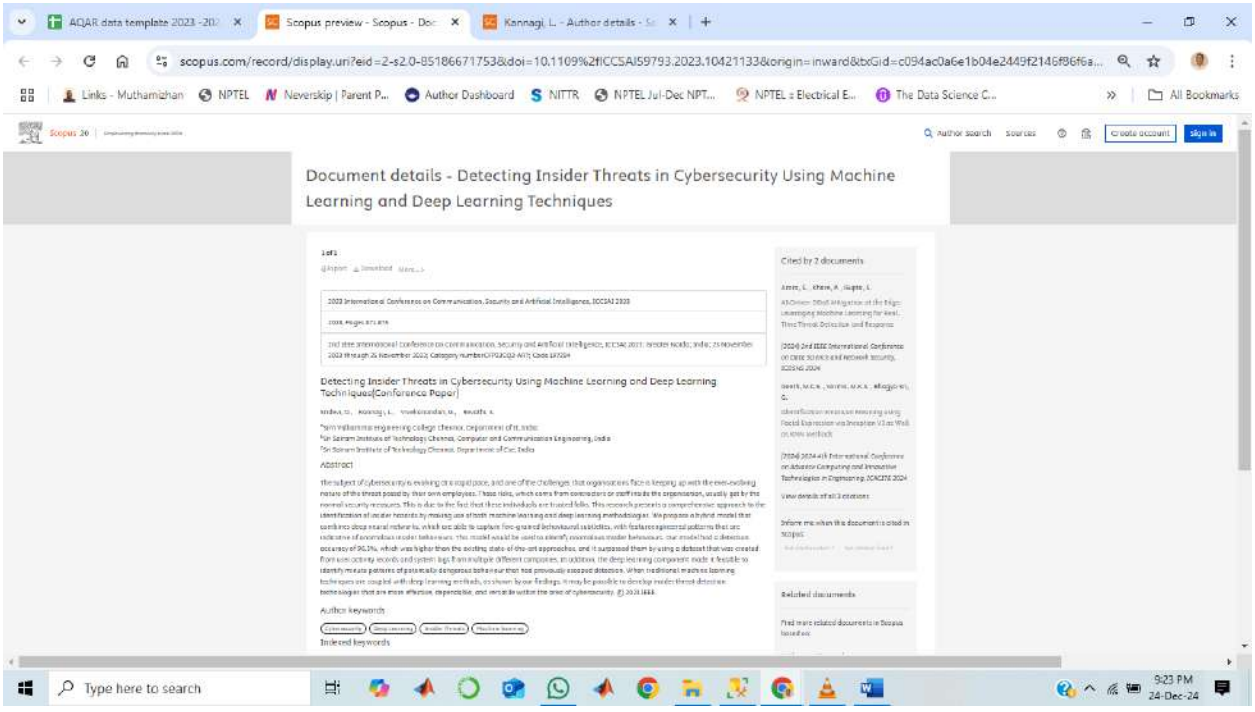
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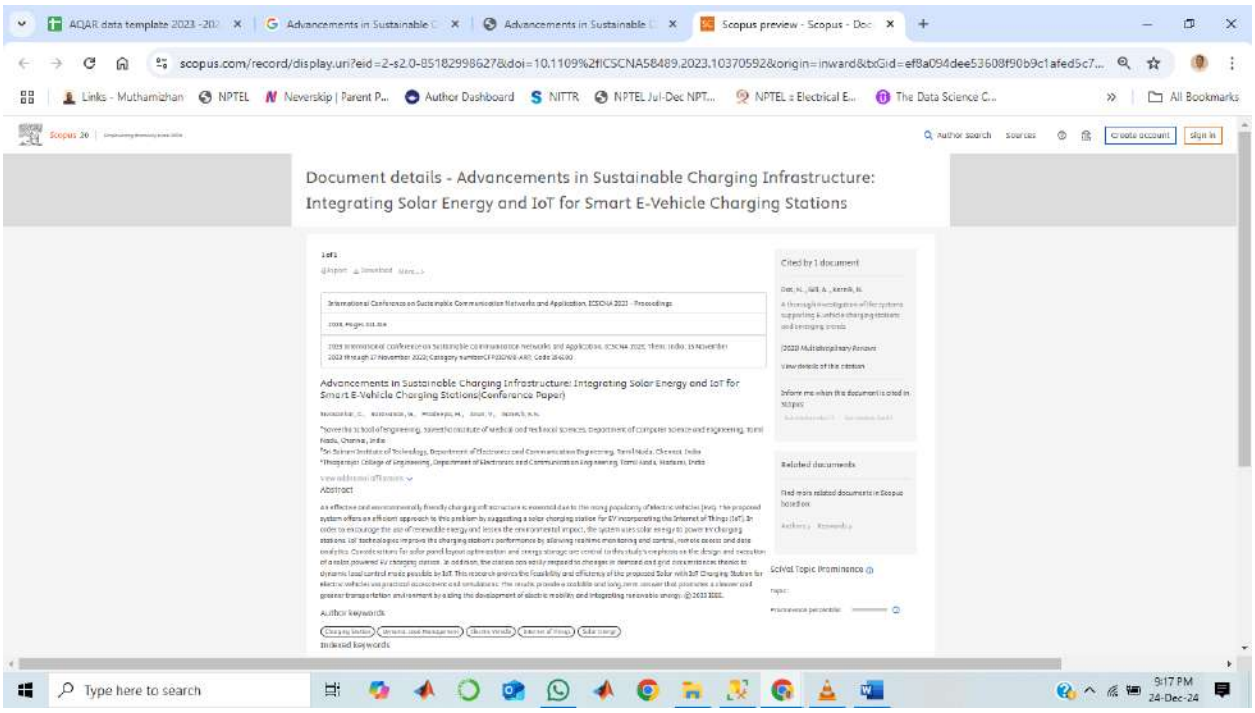
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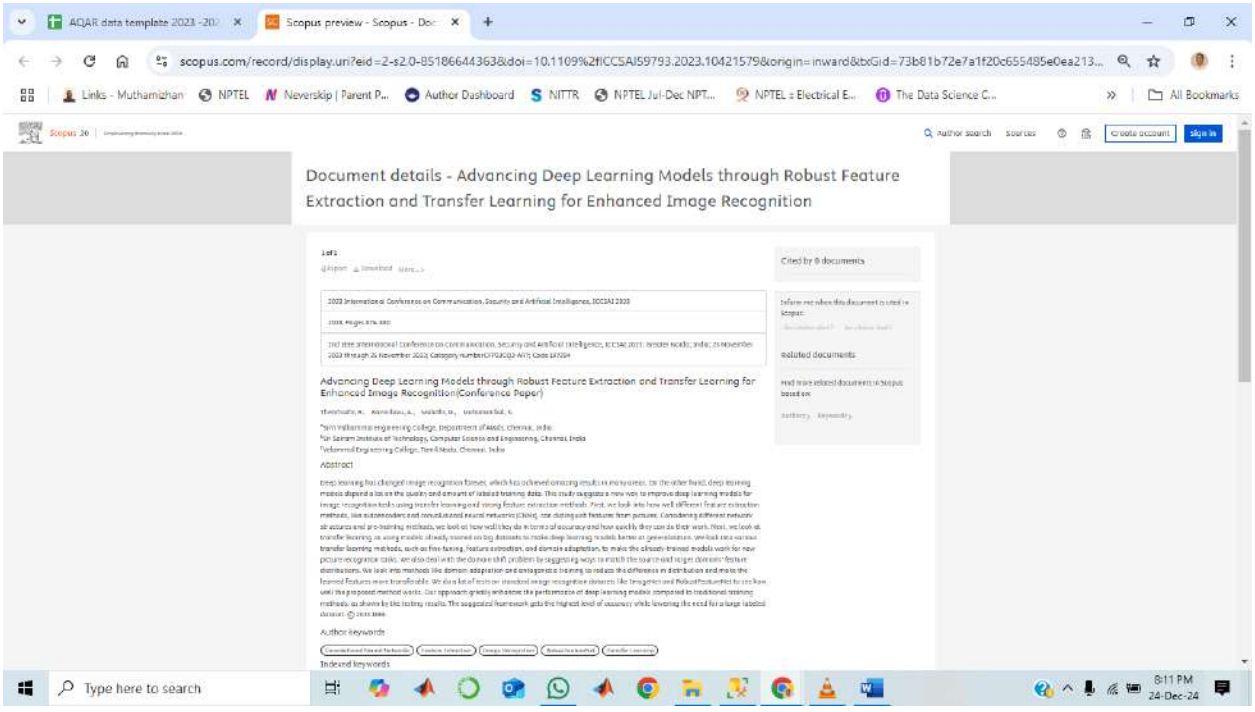
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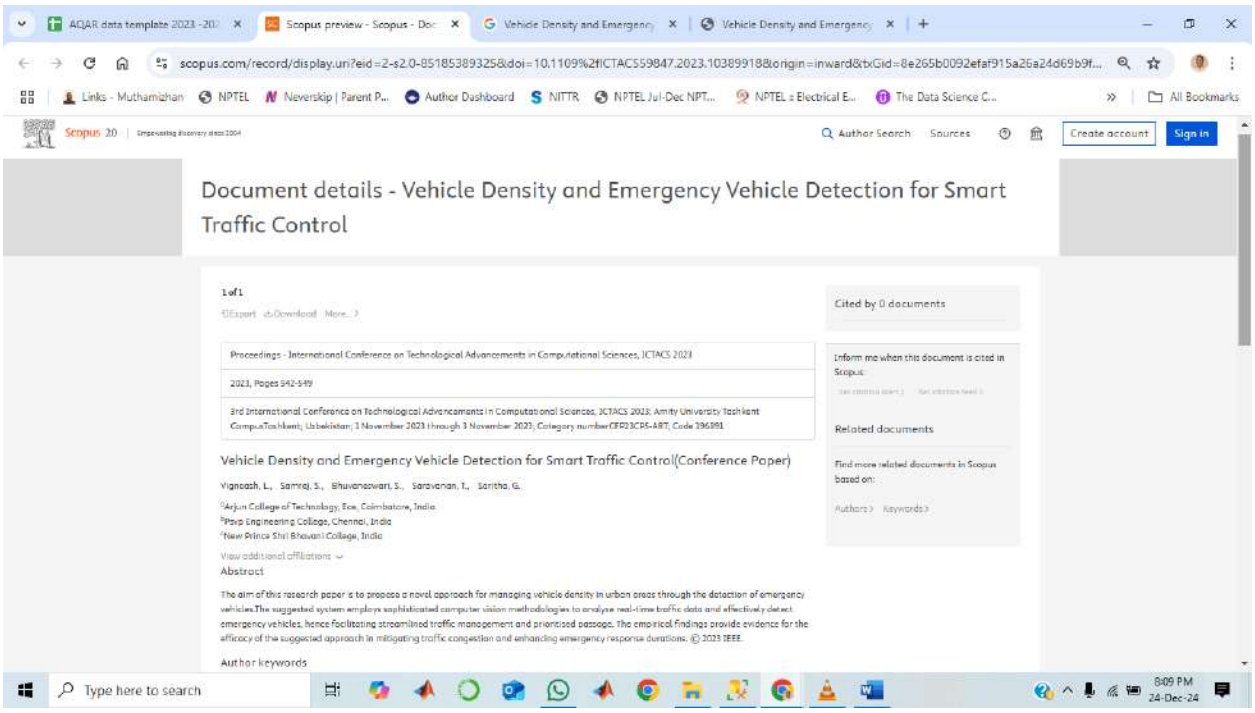
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Arjun College of Technology, Ece, Coimbatore, India
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The aim of this research paper is to propose a novel approach for managing vehicle density in urban areas through the detection of emergency vehicles.The suggested system employs sophisticated computer vision methodologies to analyse real-time traffic data and effectively detect emergency vehicles, hence facilitating streamlined traffic management and prioritised passage. The empirical findings provide evidence for the efficacy of the suggested approach in mitigating traffic congestion and enhancing emergency response durations. © 2023 IEEE.
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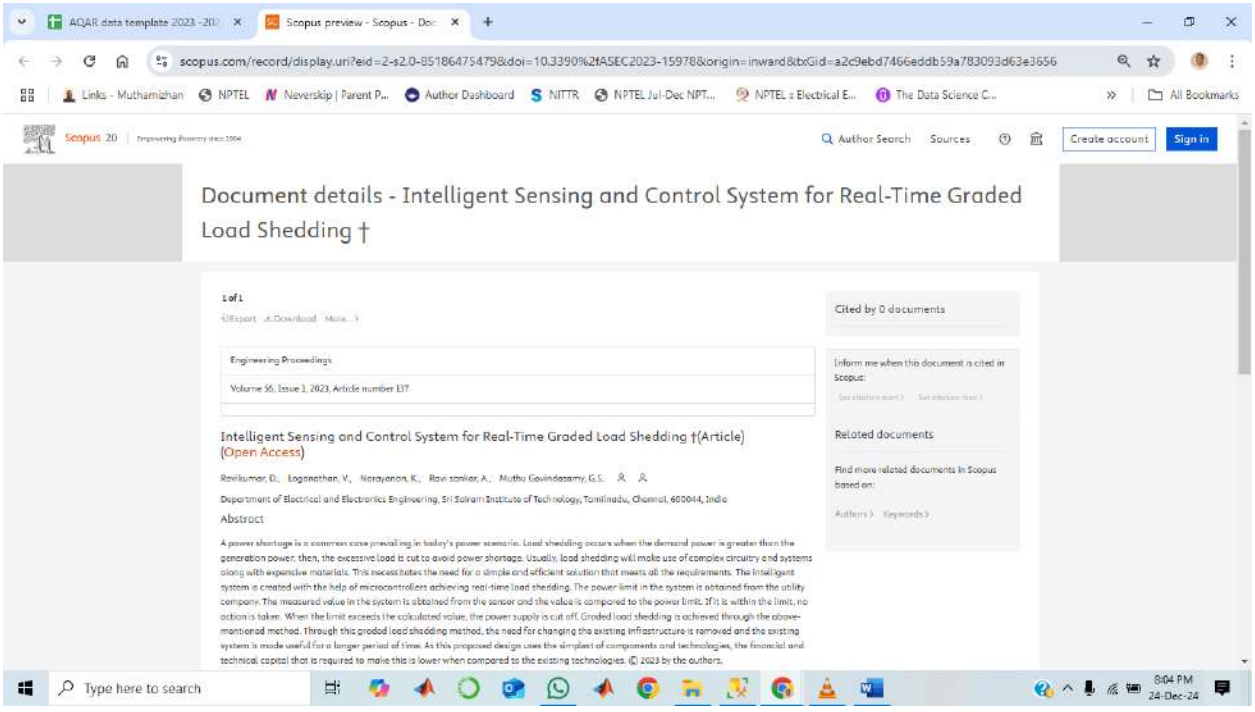
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Department of Electrical and Electronics Engineering, Sri Sairam Institute of Technology, Tamilnadu, Chennai, 600044, India
Abstract
A power shortage is a common case prevailing in today's power scenario. Load shedding occurs when the demand power is greater than the generation power; then, the excessive load is cut to avoid power shortage. Usually, load shedding will make use of complex circuitry and systems along with expensive materials. This necessitates the need for a simple and efficient solution that meets all the requirements. The intelligent system is created with the help of microcontrollers achieving real-time load shedding. The power limit in the system is obtained from the utility company. The measured value in the system is obtained from the sensor and the value is compared to the power limit. If it is within the limit, no action is taken. When the limit exceeds the calculated value, the power supply is cut off. Graded load shedding is achieved through the above-mentioned method. Through this graded load shedding method, the need for changing the existing infrastructure is removed and the existing system is made useful for a longer period of time. As this proposed design uses the simplest of components and technologies, the financial and technical capital that is required to make this is lower when compared to the existing technologies. © 2023 by the authors.
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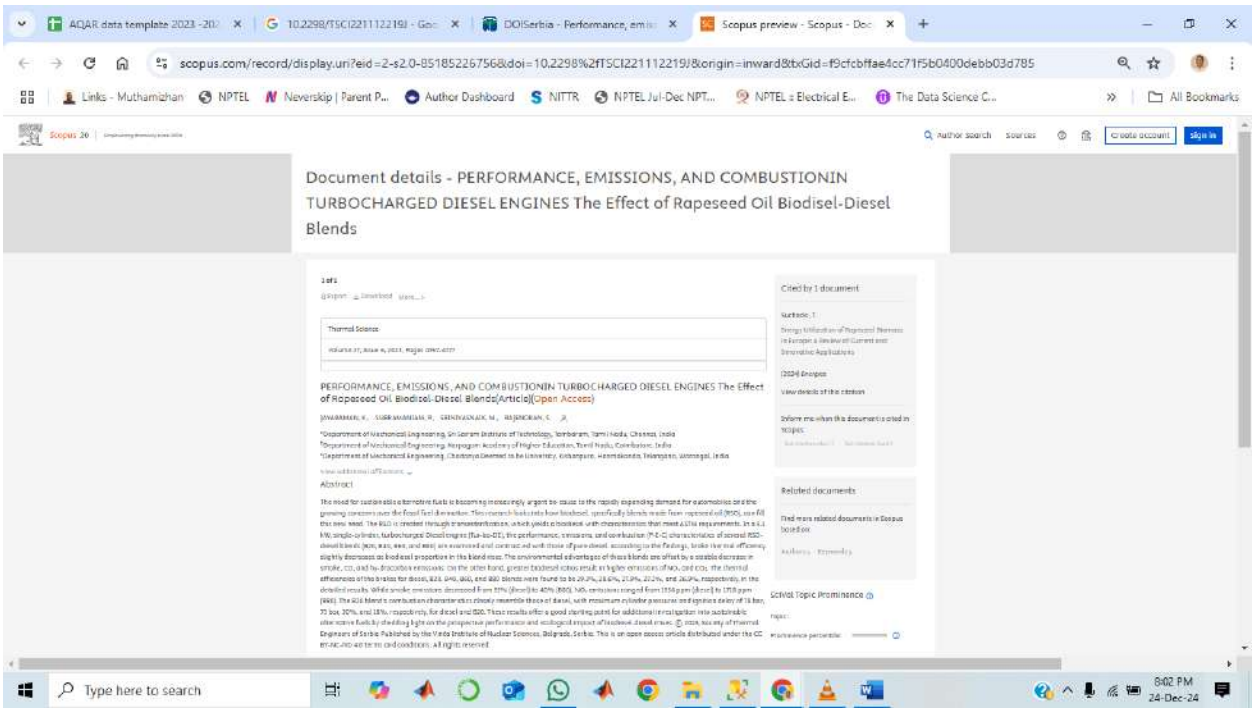
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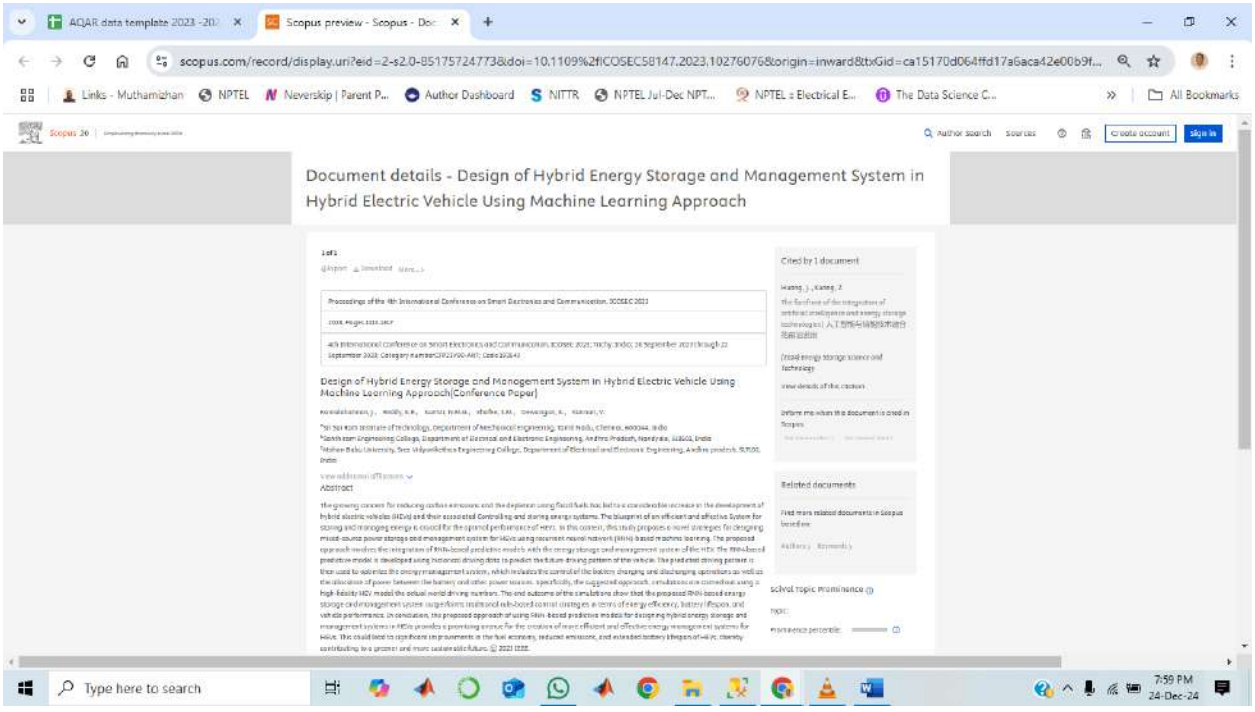
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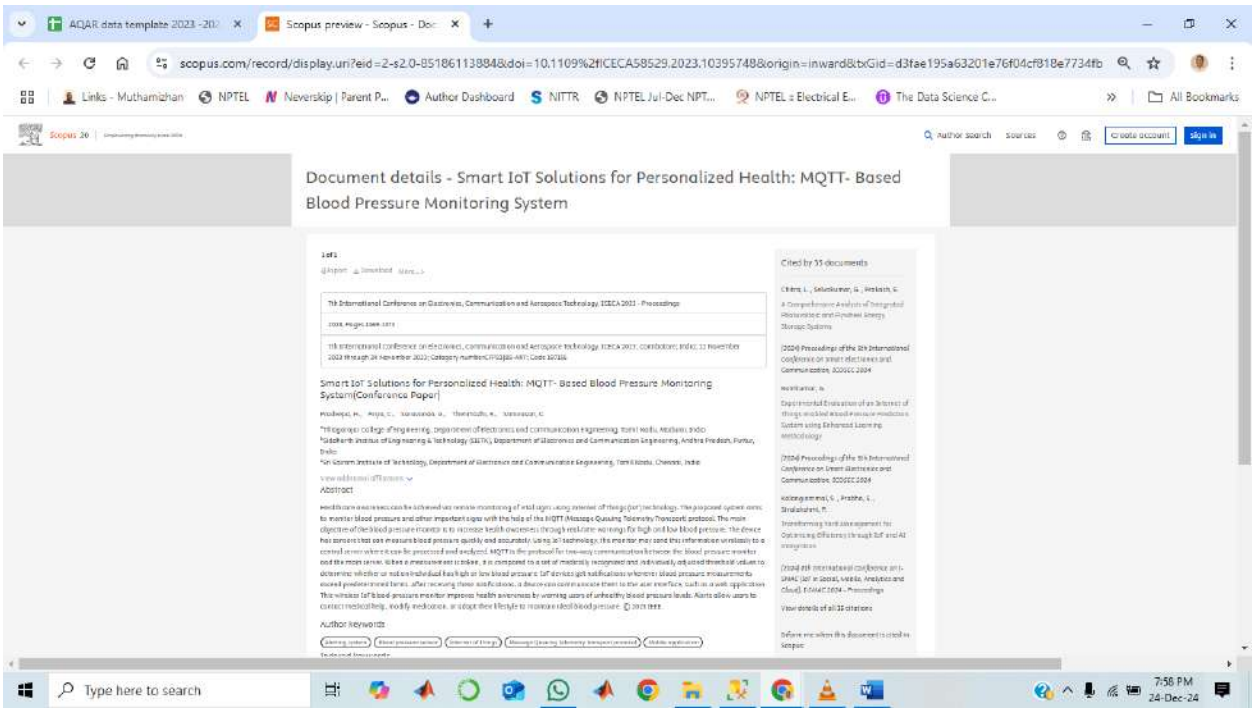
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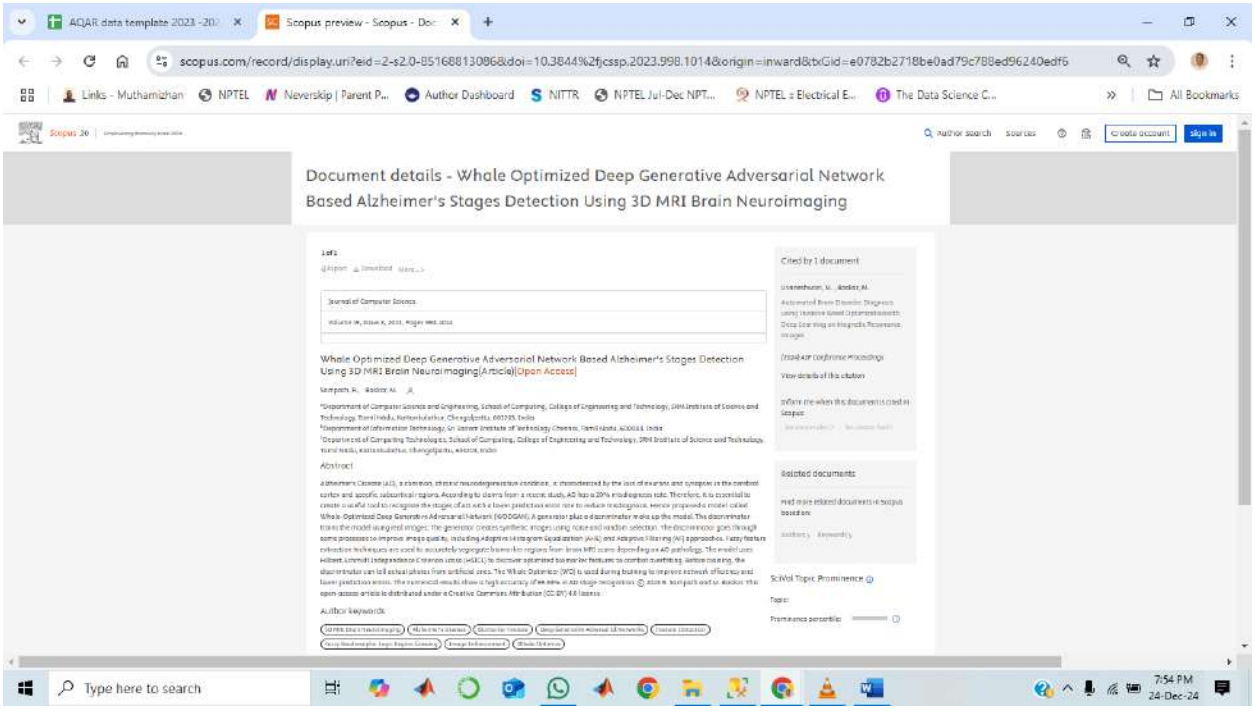
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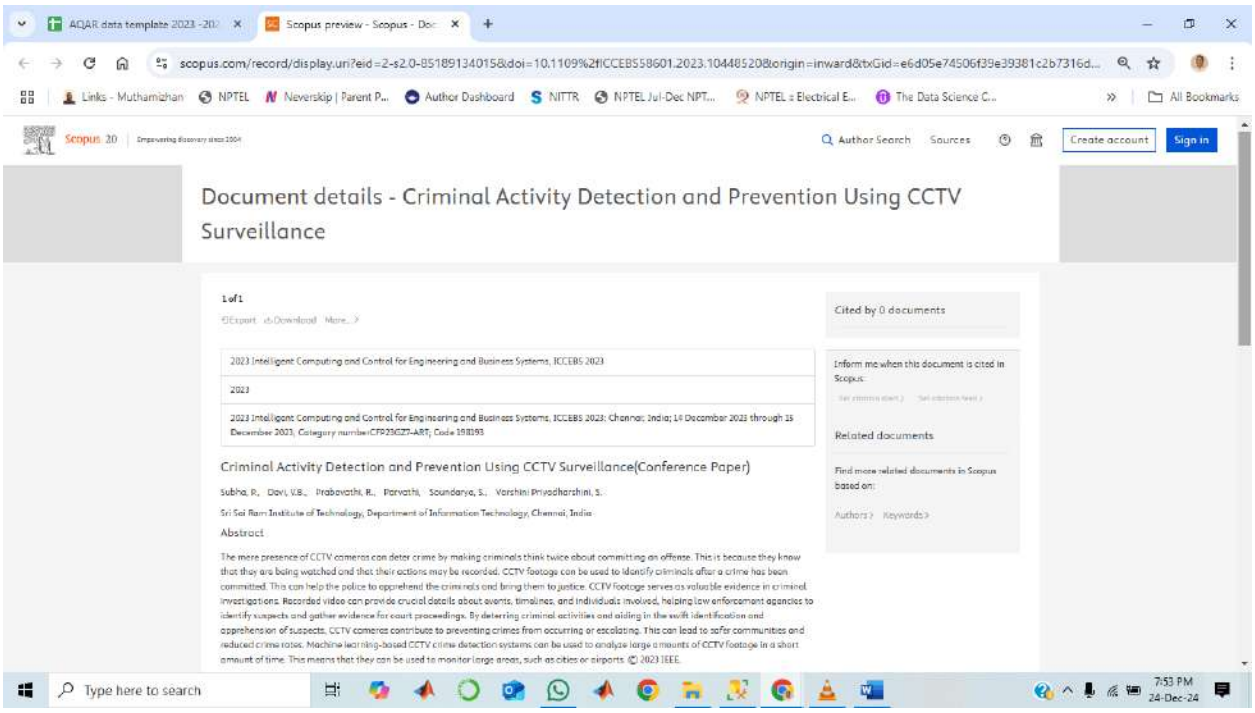
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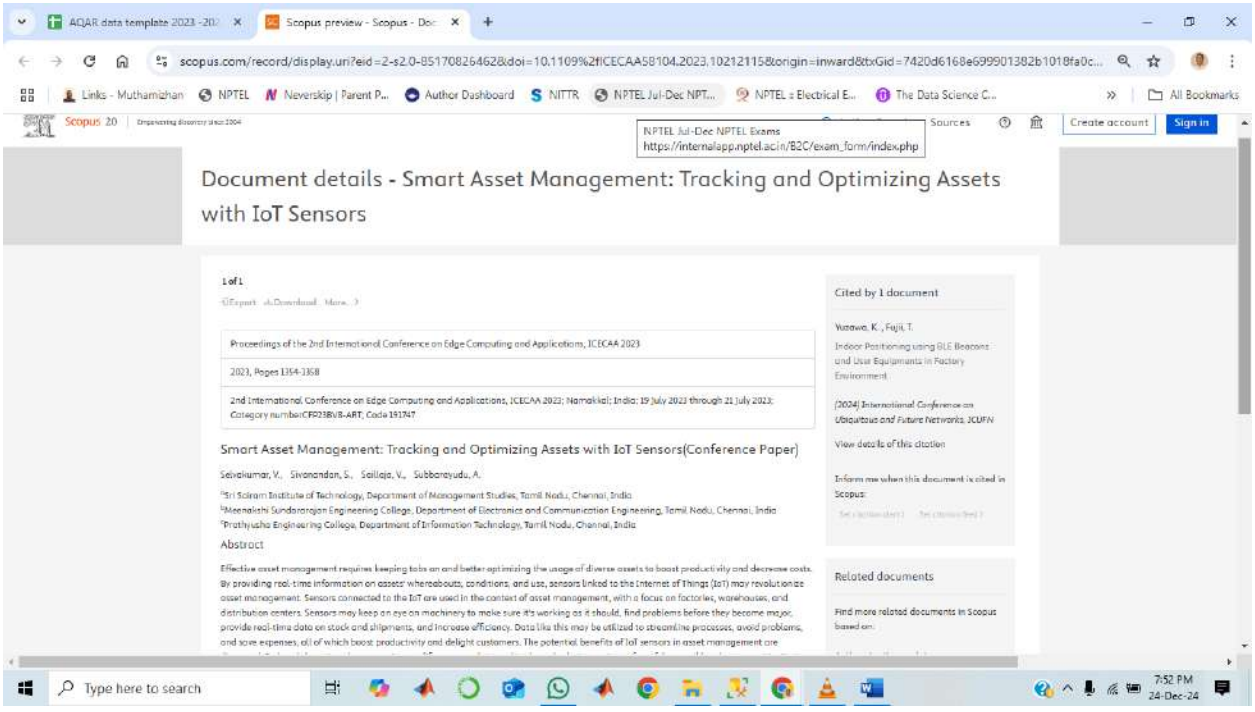
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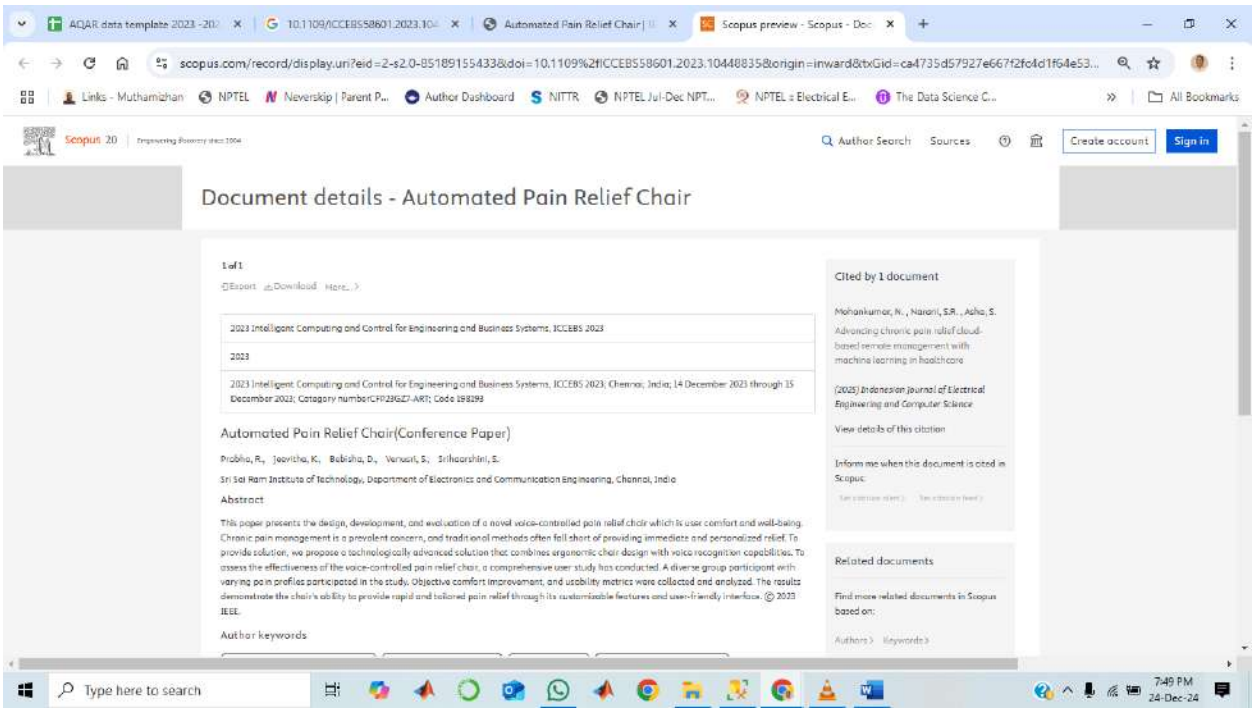
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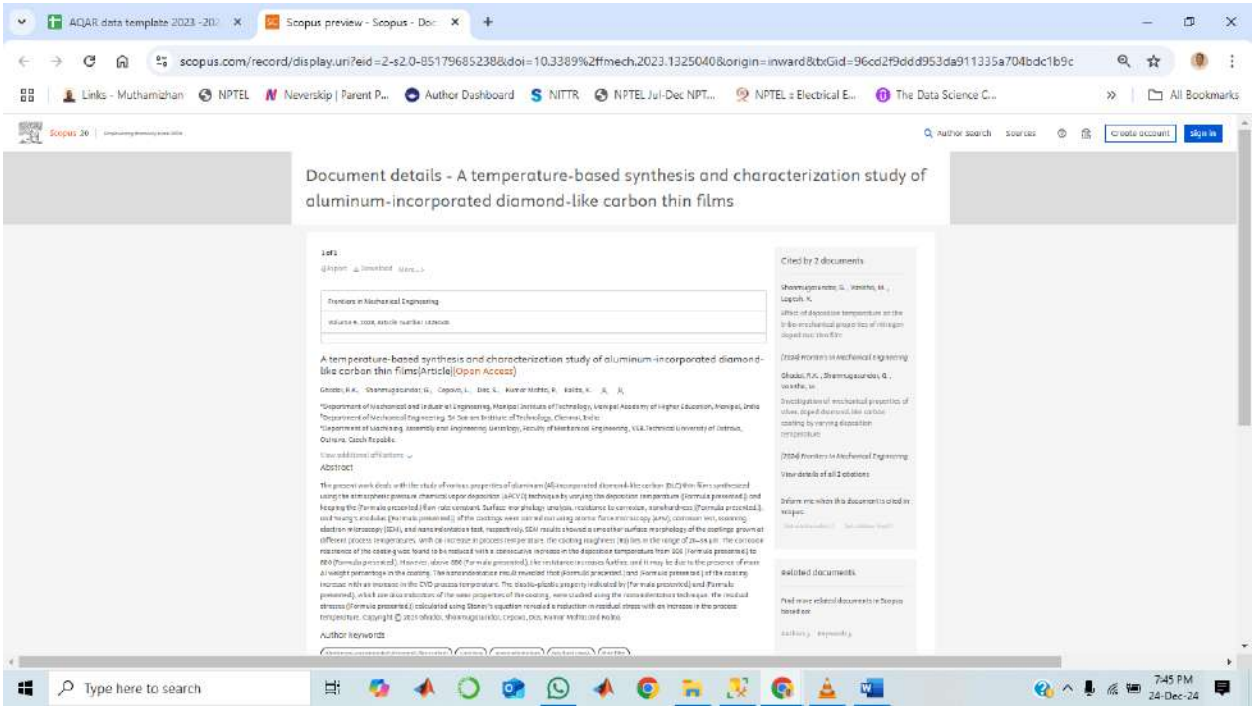
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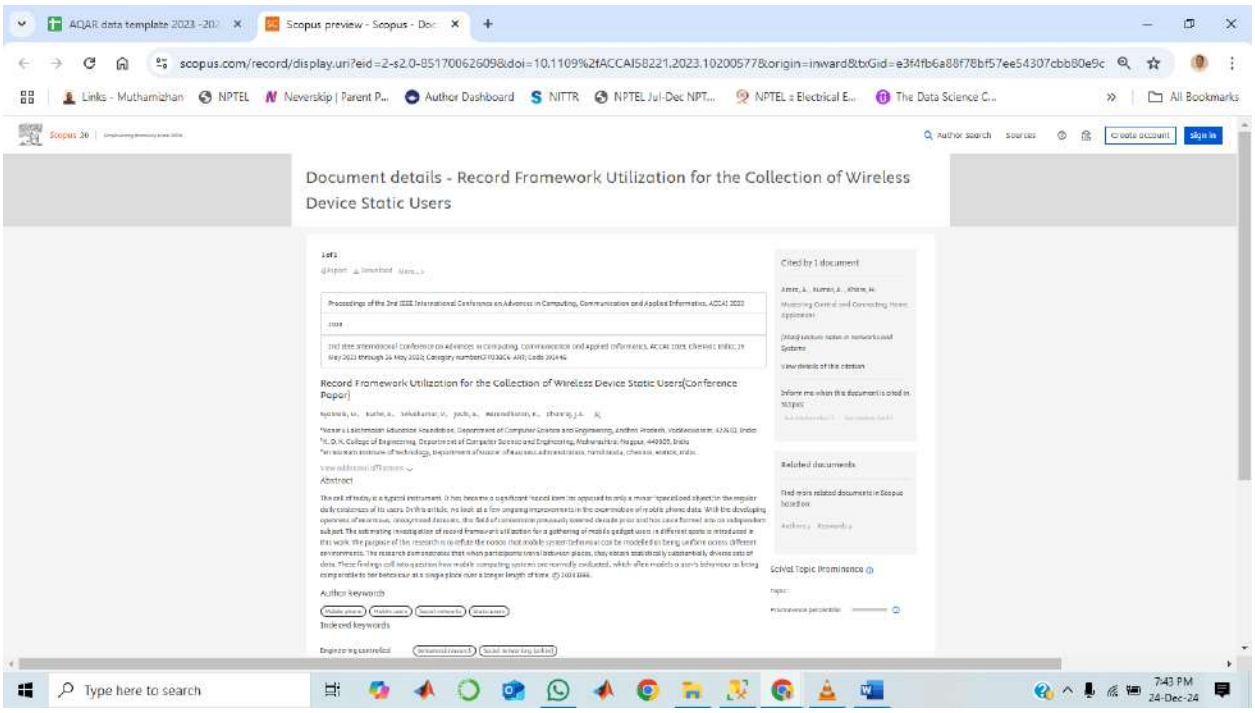
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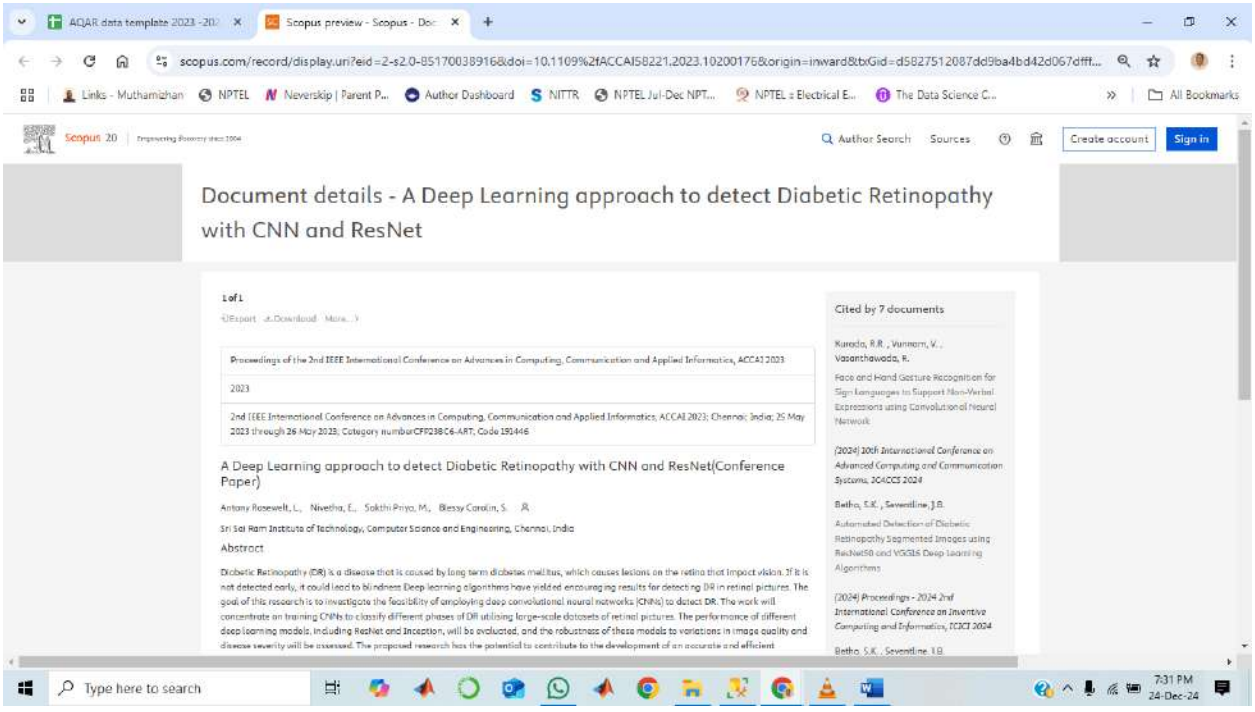
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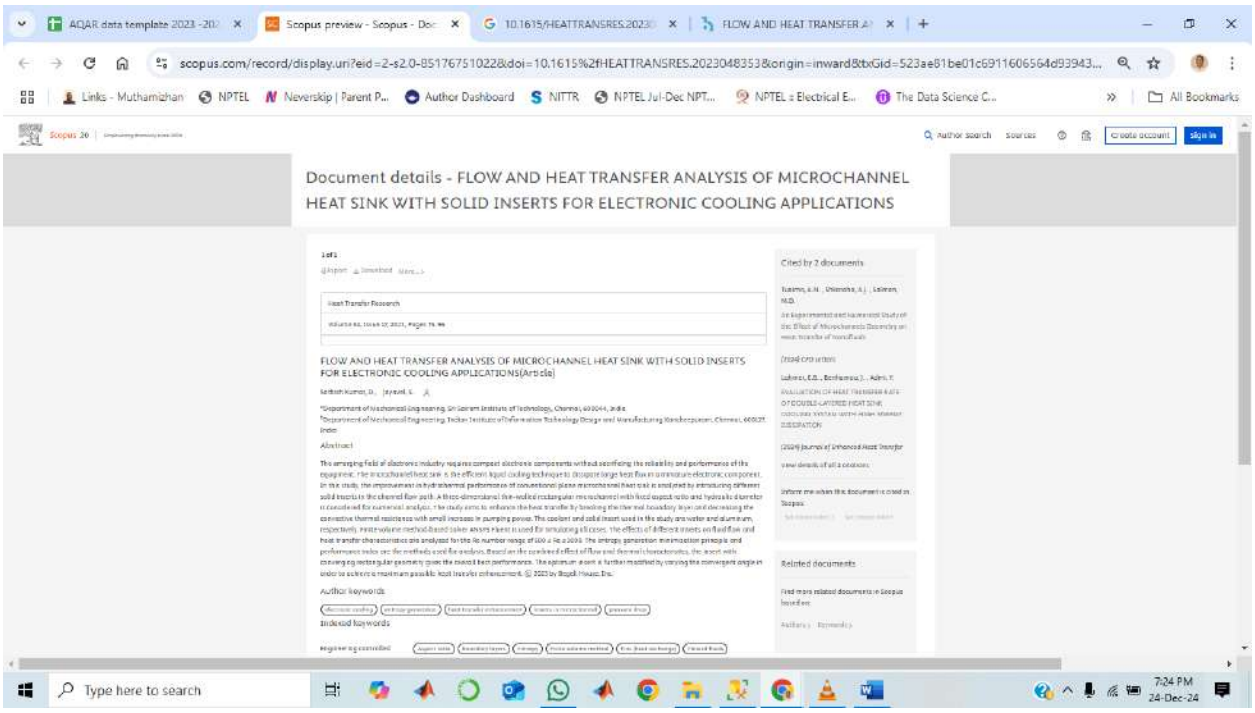

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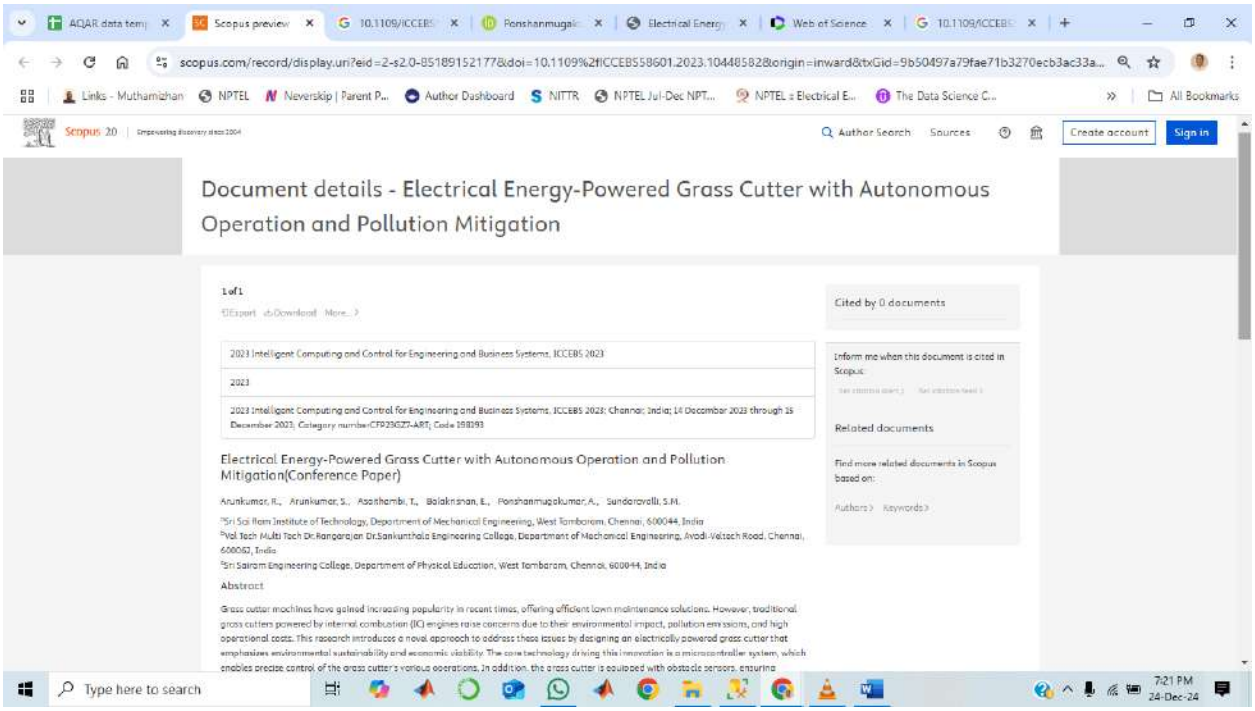

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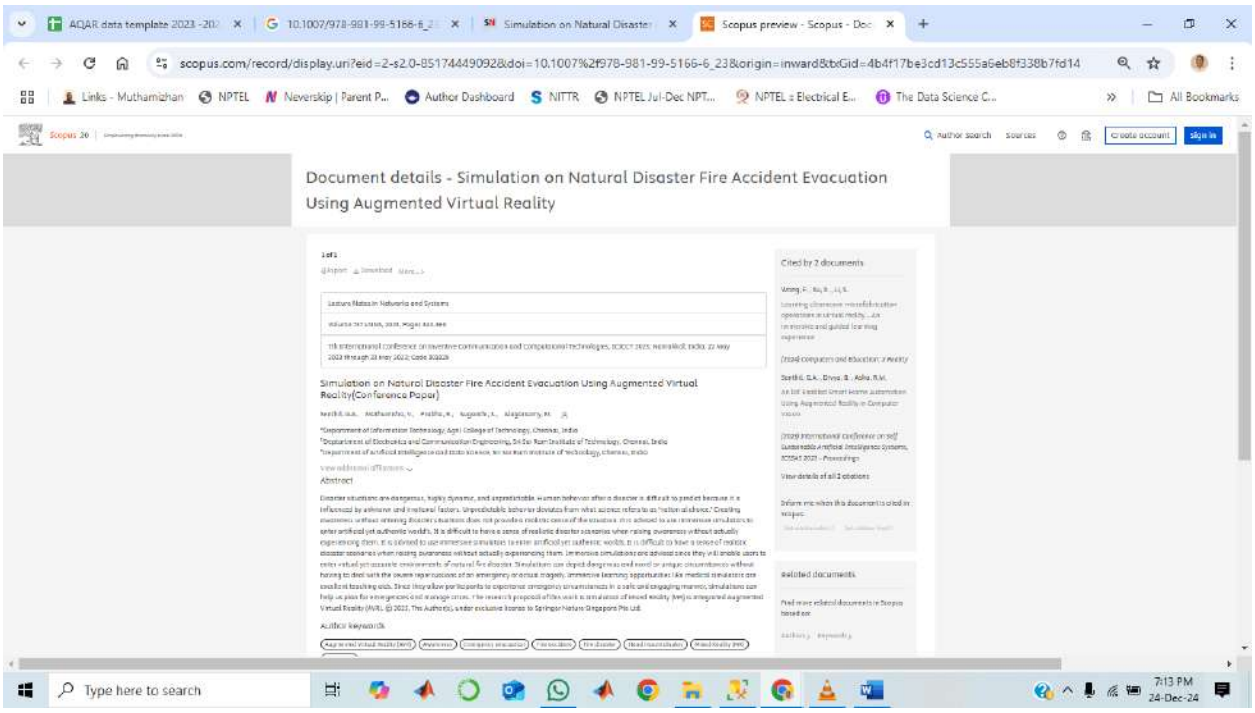
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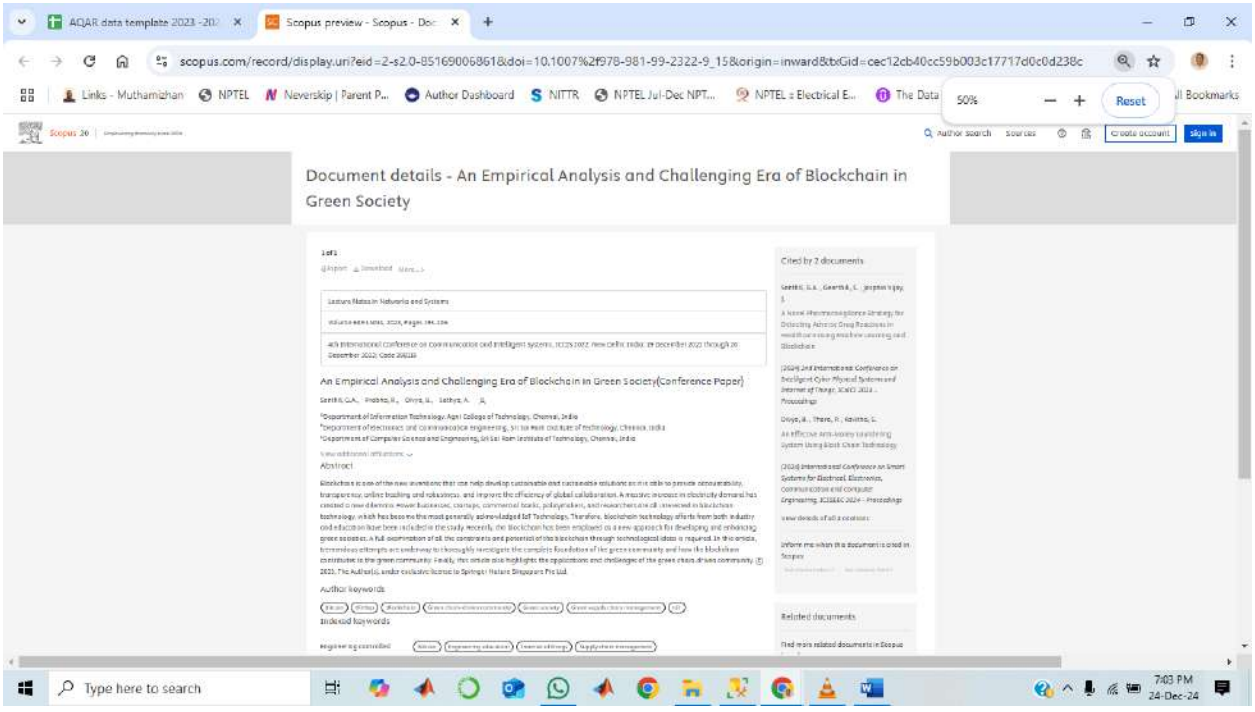
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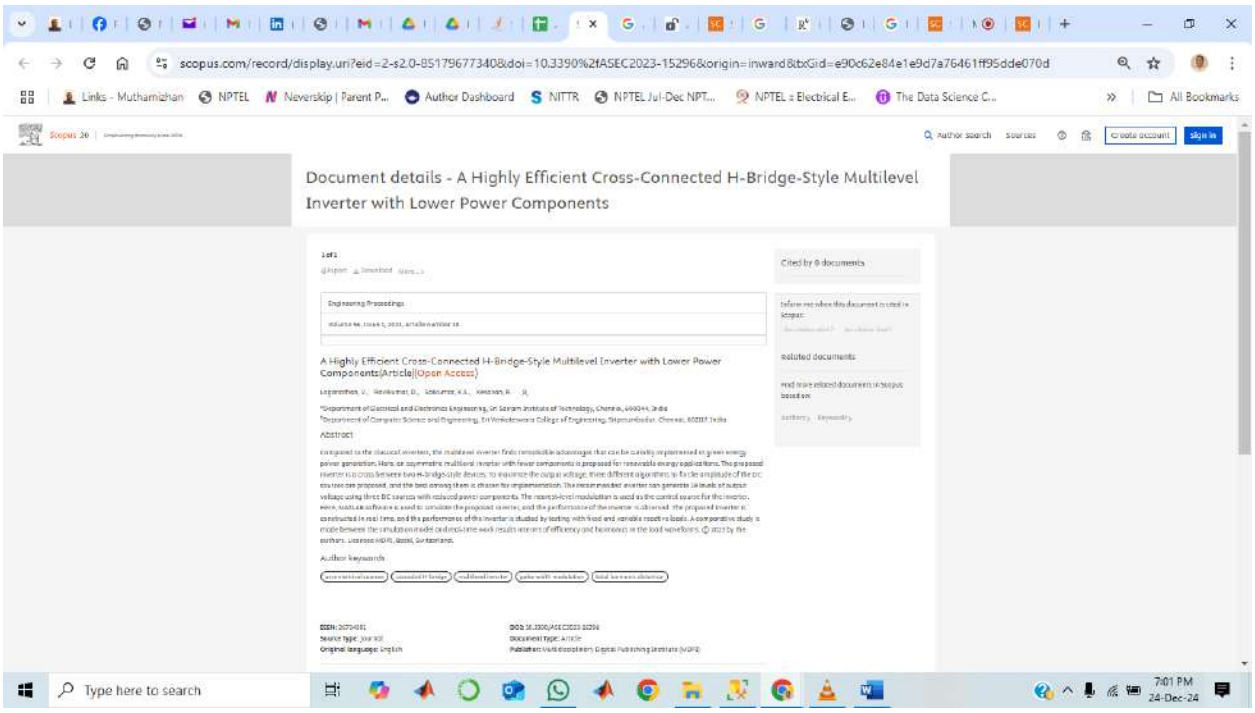
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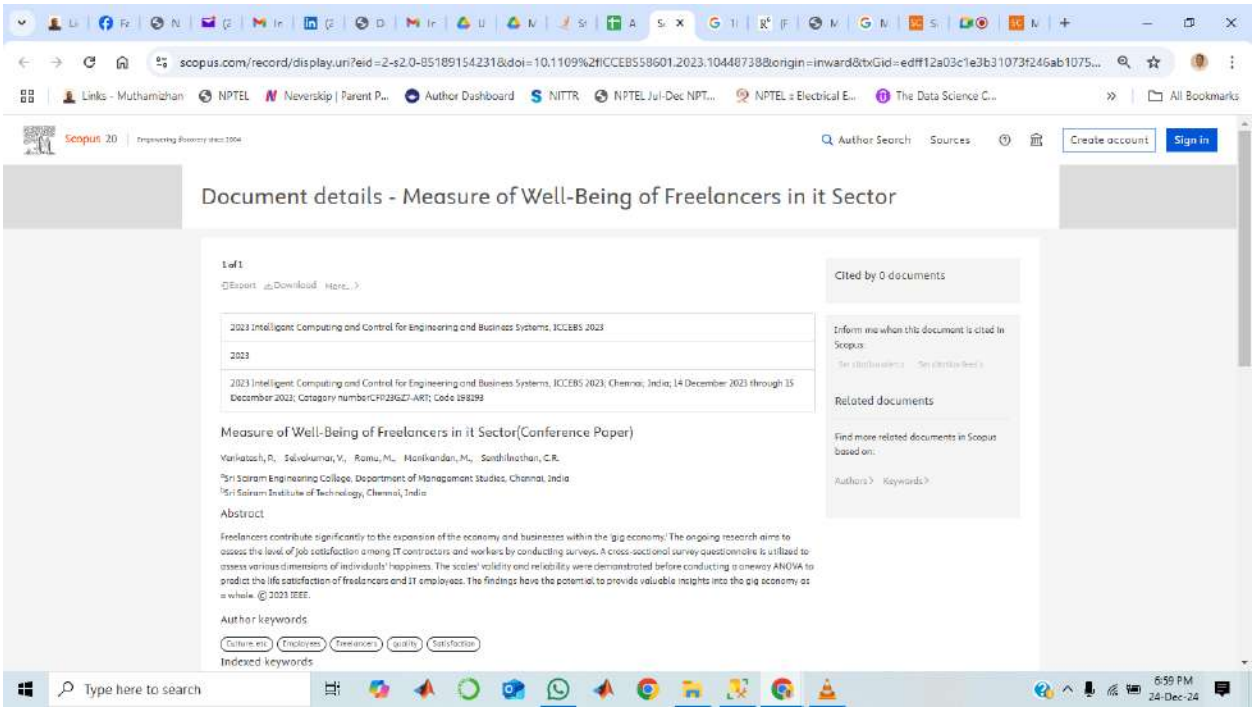
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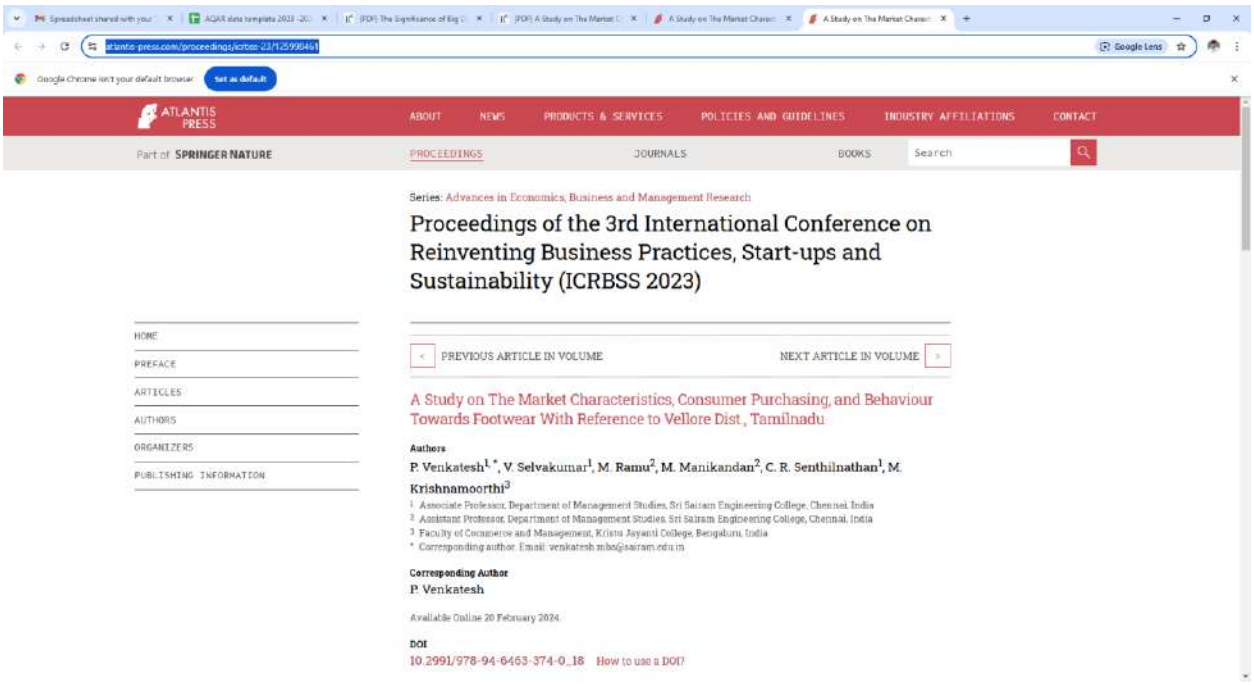

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P. Venkatesh[1,*], V. Selvakumar[1], M. Ramu[2], M. Manikandan[2], C. R. Senthilnathan[1], M. Krishnamoorthi[3]

[1] Associate Professor, Department of Management Studies, Sri Sairam Engineering College, Chennai, India
[2] Assistant Professor, Department of Management Studies, Sri Sairam Engineering College, Chennai, India
[3] Faculty of Commerce and Management, Krishi Jayanti College, Bengaluru, India
[*] Corresponding author. Email: venkatesh.mba@sairam.edu.in

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Abstract

E-recruitment is the current trend in the recruitment process and it has been adopted by many large and small organizations as the role of human resource manager in the recruitment process in changing with line managers becoming more involved in dealing with specific job opening and human resource manager taking on a more coordinating method and systems is helping to facilitate this trend by eliminating much of the routine administrative work involved in recruiting and allowing human resource manager to more easily monitor and track recruitment related activities. E-recruitment has great potential to any organization as its up to date recruitment method current information, open up geographical borders searching for talents and a time and cost saving. This study examines the use of E-recruitment among the job applicants of students who will study the attributes promoting job applications to apply online. The study reveals that the use of E-recruitment has made it easy for the job applicants to search and find an appropriate job that meets their expectations. Further it also reveals that the most important attribute encouraging job applicants to apply on-line is a strong organizational culture which allows potential applicants to assess their fit with

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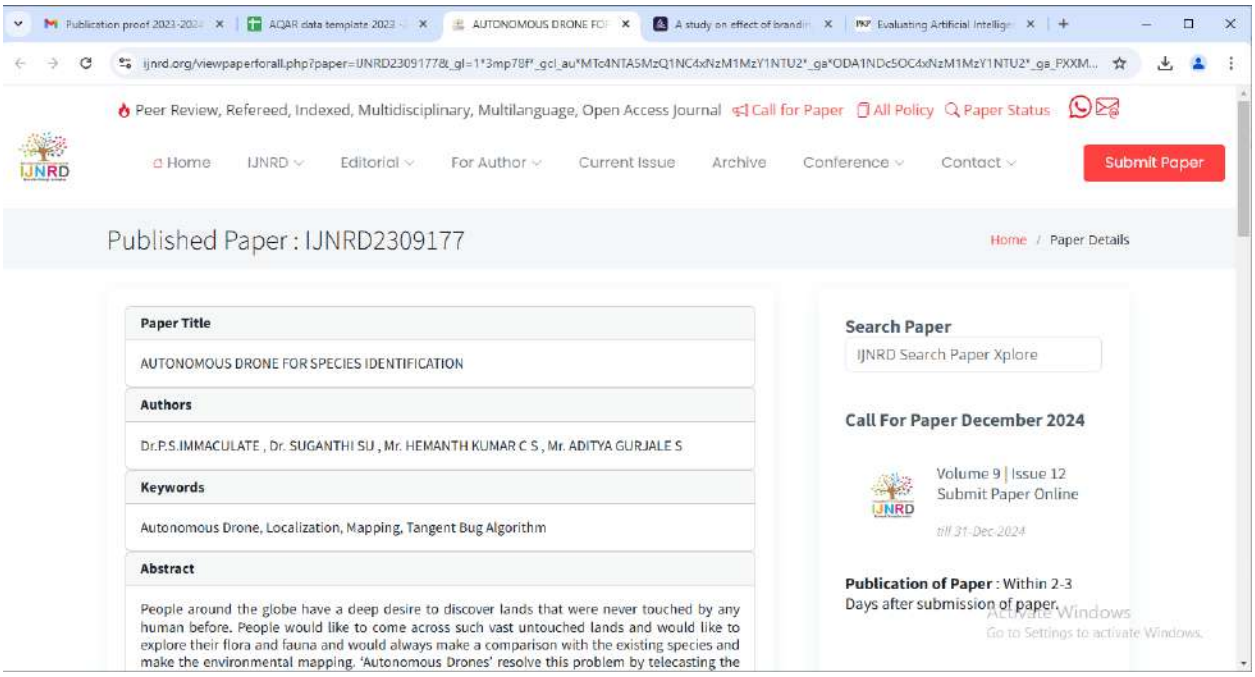
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Authors
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Keywords
Autonomous Drone, Localization, Mapping, Tangent Bug Algorithm
Abstract
People around the globe have a deep desire to discover lands that were never touched by any human before. People would like to come across such vast untouched lands and would like to explore their flora and fauna and would always make a comparison with the existing species and make the environmental mapping. 'Autonomous Drones' resolve this problem by telecasting the
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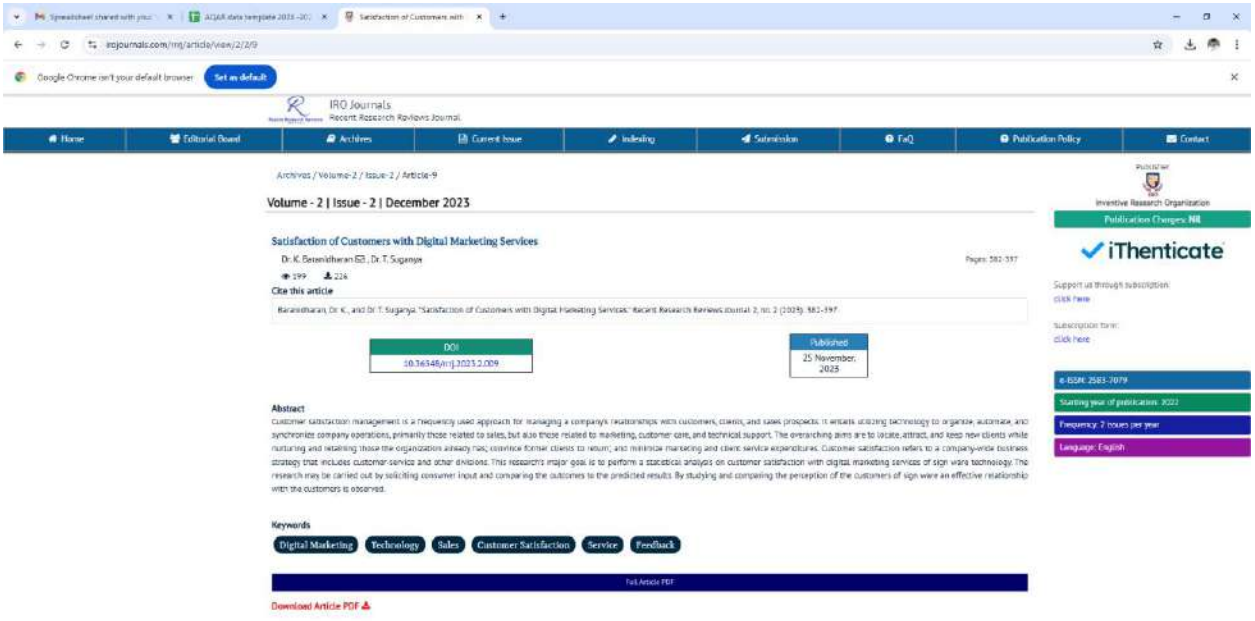
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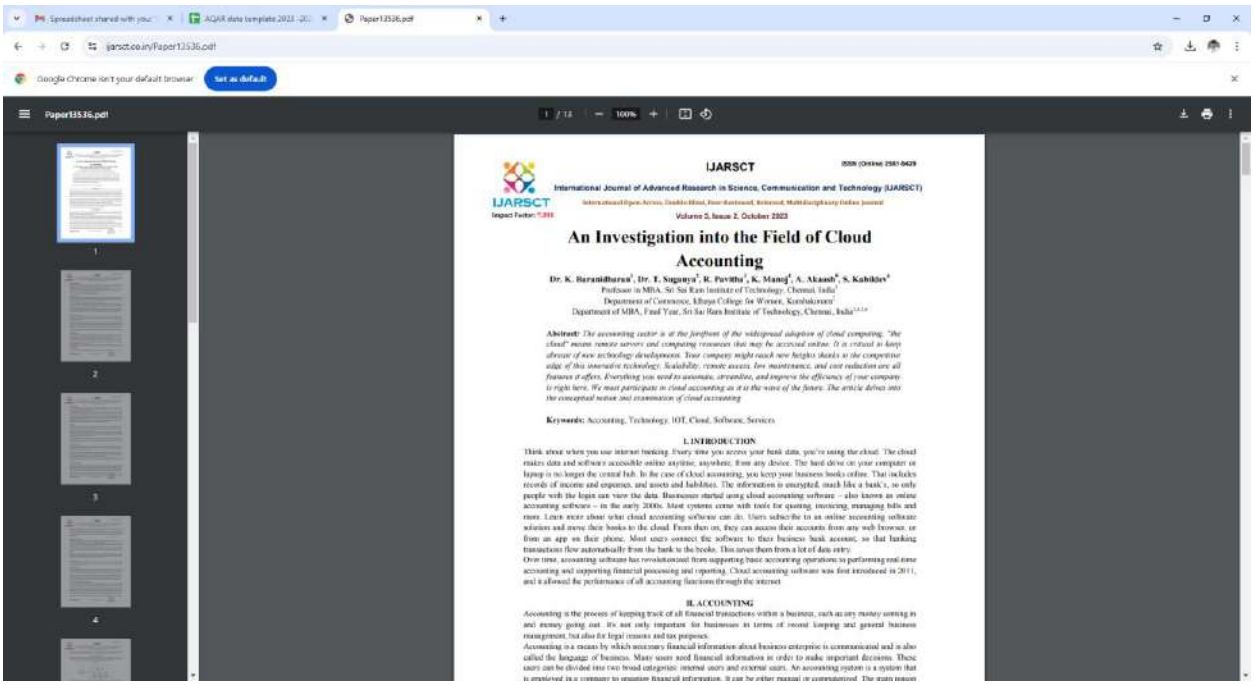

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An Investigation into the Field of Cloud Accounting

Dr. K. Baranidharan[1], Dr. T. Suguna[2], R. Pavitha[3], K. Manoj[4], A. Akaash[5], S. Kabildev[6]
Professor in MBA, Sri Sai Ram Institute of Technology, Chennai, India[1]
Department of Commerce, Khaya College for Women, Kozhukiyoor[2]
Department of MBA, Final Year, Sri Sai Ram Institute of Technology, Chennai, India[3,4,5,6]

Abstract: *The accounting sector is at the forefront of the widespread adoption of cloud computing. "the cloud" means remote servers and computing resources that may be accessed online. It is critical to keep abreast of new technology developments. Your company might reach new heights thanks to the competitive edge of this innovative technology. Scalability, remote access, low maintenance, and cost reduction are all features it offers. Everything you need to automate, streamline, and improve the efficiency of your company is right here. We must participate in cloud accounting as it is the wave of the future. The article delves into the conceptual notion and examination of cloud accounting.*

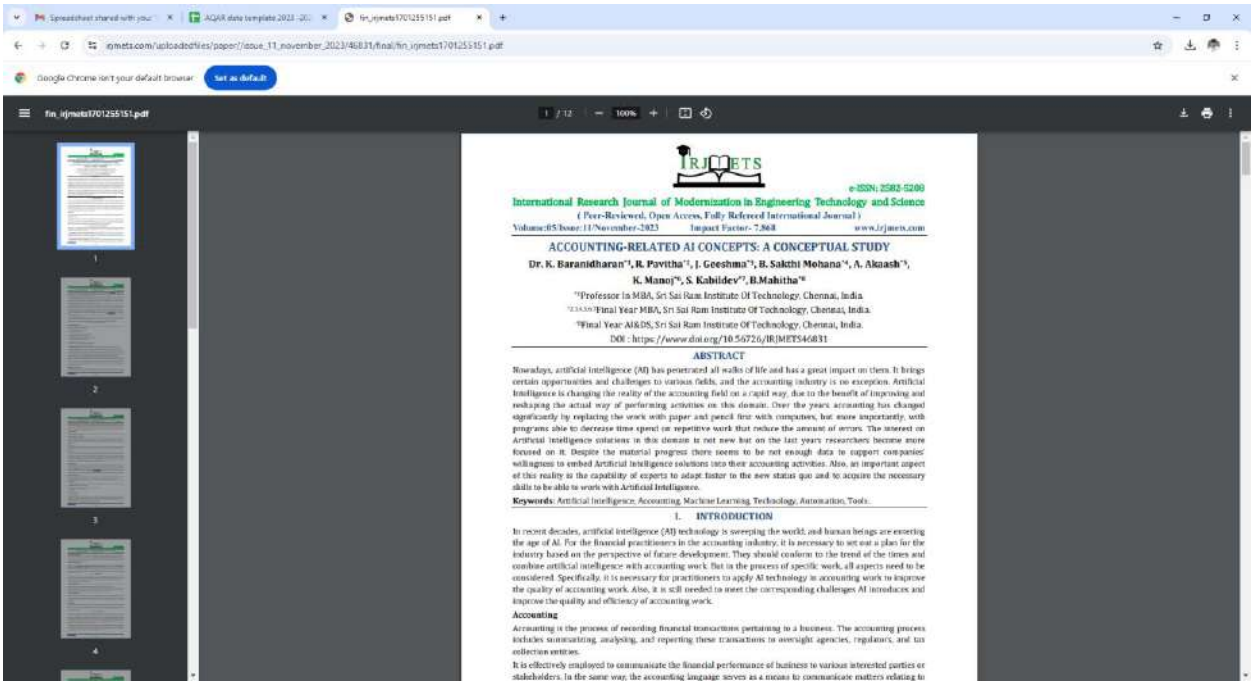
Keywords: Accounting, Technology, IOT, Cloud, Software, Services

I. INTRODUCTION

Think about when you use internet banking. Every time you access your bank data, you're using the cloud. The cloud makes data and software accessible online anytime, anywhere, from any device. The hard drive on your computer or laptop is no longer the central hub. In the case of cloud accounting, you keep your business books online. That includes records of income and expenses, and assets and liabilities. The information is encrypted, much like a bank's, so only people with the login can view the data. Businesses started using cloud accounting software – also known as online accounting software – in the early 2000s. Most systems come with tools for quoting, invoicing, managing bills and more. Learn more about what cloud accounting software can do. Users subscribe to an online accounting software solution and move their books to the cloud. From then on, they can access their accounts from any web browser, or from an app on their phone. Most users connect the software to their business bank account, so that banking transactions flow automatically from the bank to the books. This saves them from a lot of data entry.
Over time, accounting software has revolutionized from supporting basic accounting operations to performing real-time accounting and supporting financial processing and reporting. Cloud accounting software was first introduced in 2011, and it allowed the performance of all accounting functions through the internet.

II. ACCOUNTING

Accounting is the process of keeping track of all financial transactions within a business, such as any money coming in and money going out. It's not only important for businesses in terms of record keeping and general business management, but also for legal reasons and tax purposes.
Accounting is a means by which necessary financial information about business enterprise is communicated and is also called the language of business. Many users need financial information in order to make important decisions. These users can be divided into two broad categories: internal users and external users. An accounting system is a system that is employed in a company to organize financial information. It can be either manual or computerized. The main reason



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ACCOUNTING-RELATED AI CONCEPTS: A CONCEPTUAL STUDY

Dr. K. Baranidharan[*1], R. Pavitha[*2], J. Geeshma[*3], B. Sakthi Mohana[*4], A. Akaash[*5], K. Manoj[*6], S. Kabildev[*7], B.Mahitha[*8]
[*1]Professor in MBA, Sri Sai Ram Institute Of Technology, Chennai, India.
[*2,3,4,5]Final Year MBA, Sri Sai Ram Institute Of Technology, Chennai, India.
[*6]Final Year AI&DS, Sri Sai Ram Institute Of Technology, Chennai, India.
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ABSTRACT

Nowadays, artificial intelligence (AI) has penetrated all walks of life and has a great impact on them. It brings certain opportunities and challenges to various fields, and the accounting industry is no exception. Artificial Intelligence is changing the reality of the accounting field on a rapid way, due to the benefit of improving and reshaping the actual way of performing activities on this domain. Over the years accounting has changed significantly by replacing the work with paper and pencil first with computers, but more importantly, with programs able to decrease time spend on repetitive work that reduce the amount of errors. The interest on Artificial Intelligence solutions in this domain is not new but on the last years researchers become more focused on it. Despite the material progress there seems to be not enough data to support companies' willingness to embed Artificial Intelligence solutions into their accounting activities. Also, an important aspect of this reality is the capability of experts to adapt faster to the new status quo and to acquire the necessary skills to be able to work with Artificial Intelligence.

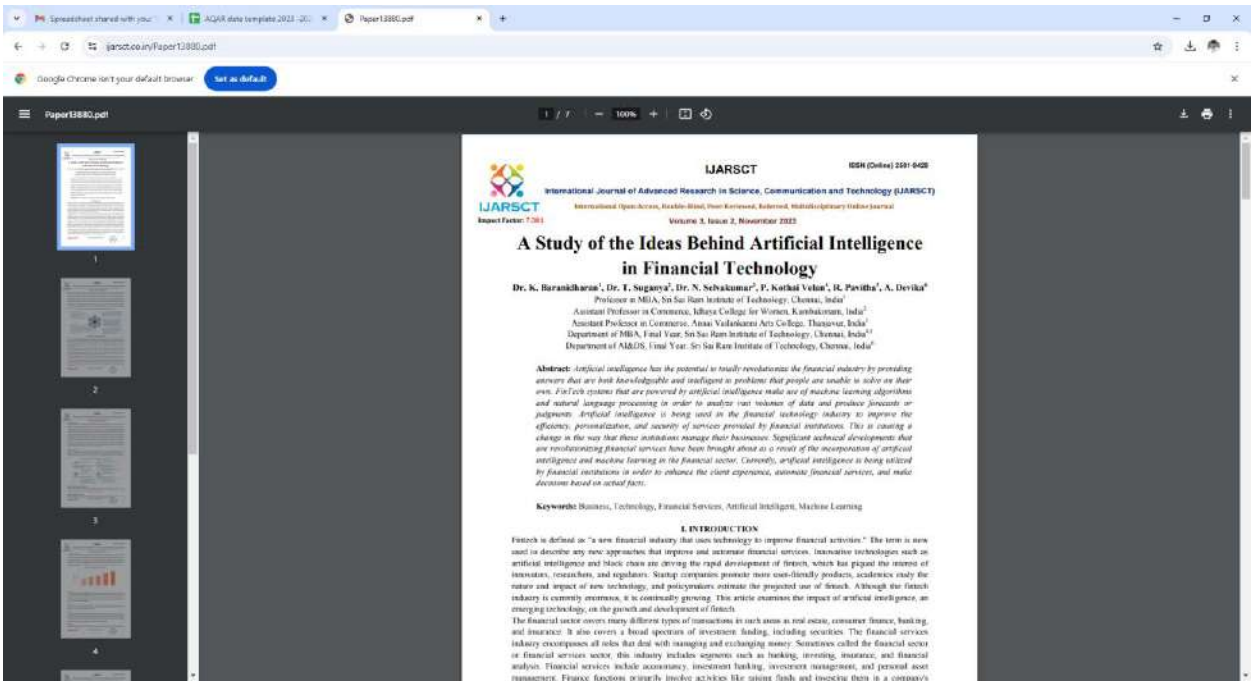
Keywords: Artificial Intelligence, Accounting, Machine Learning, Technology, Automation, Tools.

1. INTRODUCTION

In recent decades, artificial intelligence (AI) technology is sweeping the world, and human beings are entering the age of AI. For the financial practitioners in the accounting industry, it is necessary to set out a plan for the industry based on the perspective of future development. They should conform to the trend of the times and combine artificial intelligence with accounting work. But in the process of specific work, all aspects need to be considered. Specifically, it is necessary for practitioners to apply AI technology in accounting work to improve the quality of accounting work. Also, it is still needed to meet the corresponding challenges AI introduces and improve the quality and efficiency of accounting work.

Accounting

Accounting is the process of recording financial transactions pertaining to a business. The accounting process includes summarizing, analysing, and reporting these transactions to oversight agencies, regulators, and tax collection entities.
It is effectively employed to communicate the financial performance of business to various interested parties or stakeholders. In the same way, the accounting language serves as a means to communicate matters relating to



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A Study of the Ideas Behind Artificial Intelligence in Financial Technology

Dr. K. Baranidharan[1], Dr. T. Sugasya[2], Dr. N. Selvakumar[3], P. Kothai Velan[4], R. Pavithra[5], A. Devika[6]

Professor in MBA, Sri Sai Ram Institute of Technology, Chennai, India[1]

Assistant Professor in Commerce, Idhaya College for Women, Kumbakonam, India[2]

Assistant Professor in Commerce, Anaai Vadanakami Arts College, Thanjavur, India[3]

Department of MBA, Final Year, Sri Sai Ram Institute of Technology, Chennai, India[4,5]

Department of AI&DS, Final Year, Sri Sai Ram Institute of Technology, Chennai, India[6]

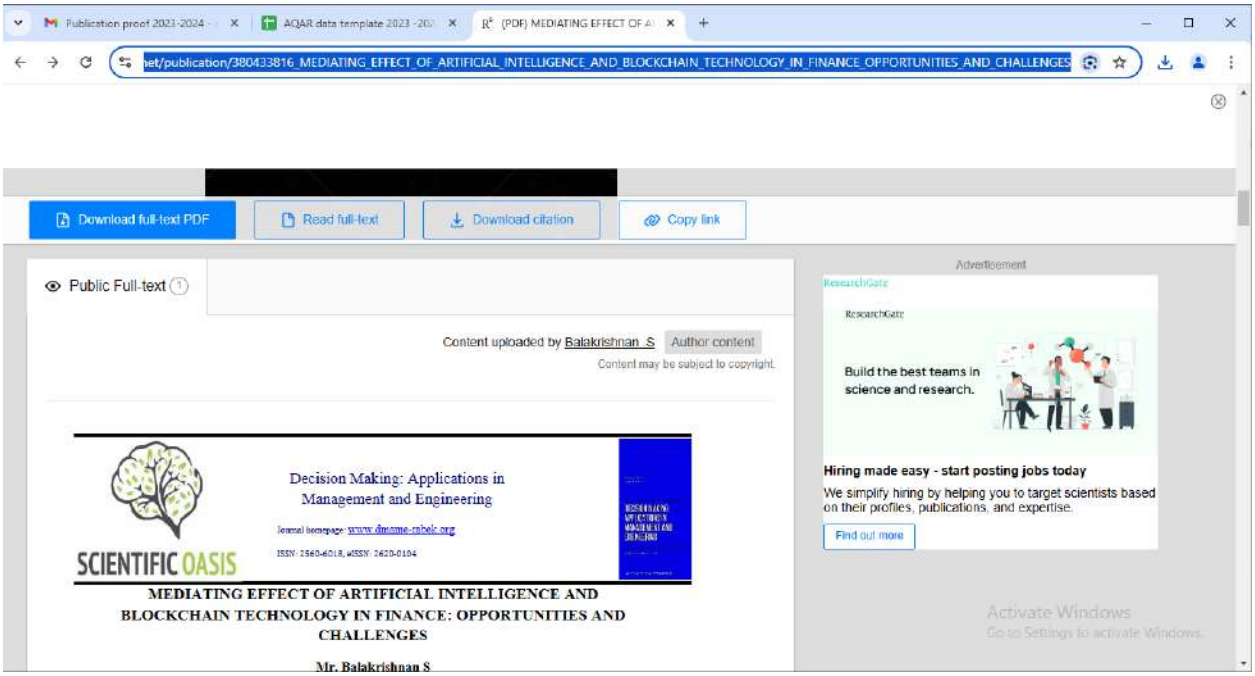
Abstract: *Artificial intelligence has the potential to totally revolutionize the financial industry by providing answers that are both knowledgeable and intelligent to problems that people are unable to solve on their own. FinTech systems that are powered by artificial intelligence make use of machine learning algorithms and natural language processing in order to analyze vast volumes of data and produce forecasts or judgments. Artificial intelligence is being used in the financial technology industry to improve the efficiency, personalization, and security of services provided by financial institutions. This is causing a change in the way that these institutions manage their businesses. Significant technical developments that are revolutionizing financial services have been brought about as a result of the incorporation of artificial intelligence and machine learning in the financial sector. Currently, artificial intelligence is being utilized by financial institutions in order to enhance the client experience, automate financial services, and make decisions based on actual facts.*

Keywords: Business, Technology, Financial Services, Artificial Intelligent, Machine Learning

I. INTRODUCTION

Fintech is defined as "a new financial industry that uses technology to improve financial activities." The term is now used to describe any new approaches that improve and automate financial services. Innovative technologies such as artificial intelligence and block chain are driving the rapid development of fintech, which has piqued the interest of innovators, researchers, and regulators. Startup companies promote more user-friendly products, academics study the nature and impact of new technology, and policymakers estimate the projected use of fintech. Although the fintech industry is currently enormous, it is continually growing. This article examines the impact of artificial intelligence, an emerging technology, on the growth and development of fintech.

The financial sector covers many different types of transactions in such areas as real estate, consumer finance, banking, and insurance. It also covers a broad spectrum of investment funding, including securities. The financial services industry encompasses all roles that deal with managing and exchanging money. Sometimes called the financial sector or financial services sector, this industry includes segments such as banking, investing, insurance, and financial analysis. Financial services include accountancy, investment banking, investment management, and personal asset management. Finance functions primarily involve activities like talent funds and investing them in a company's



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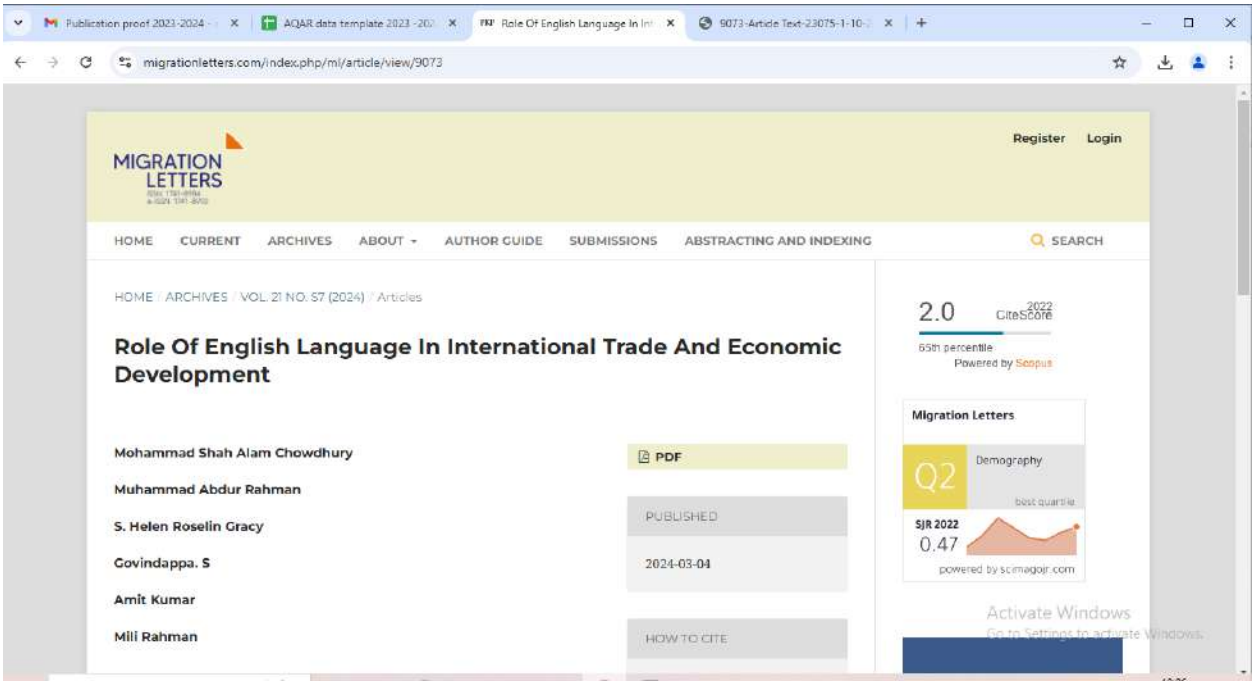
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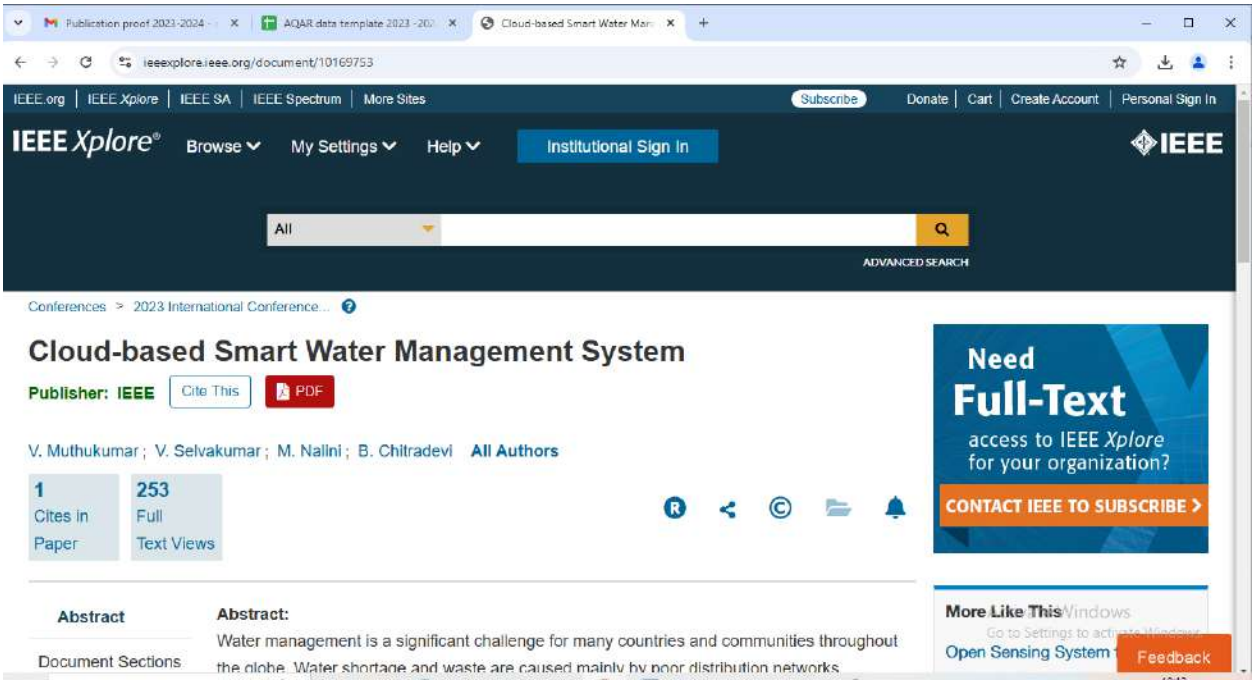
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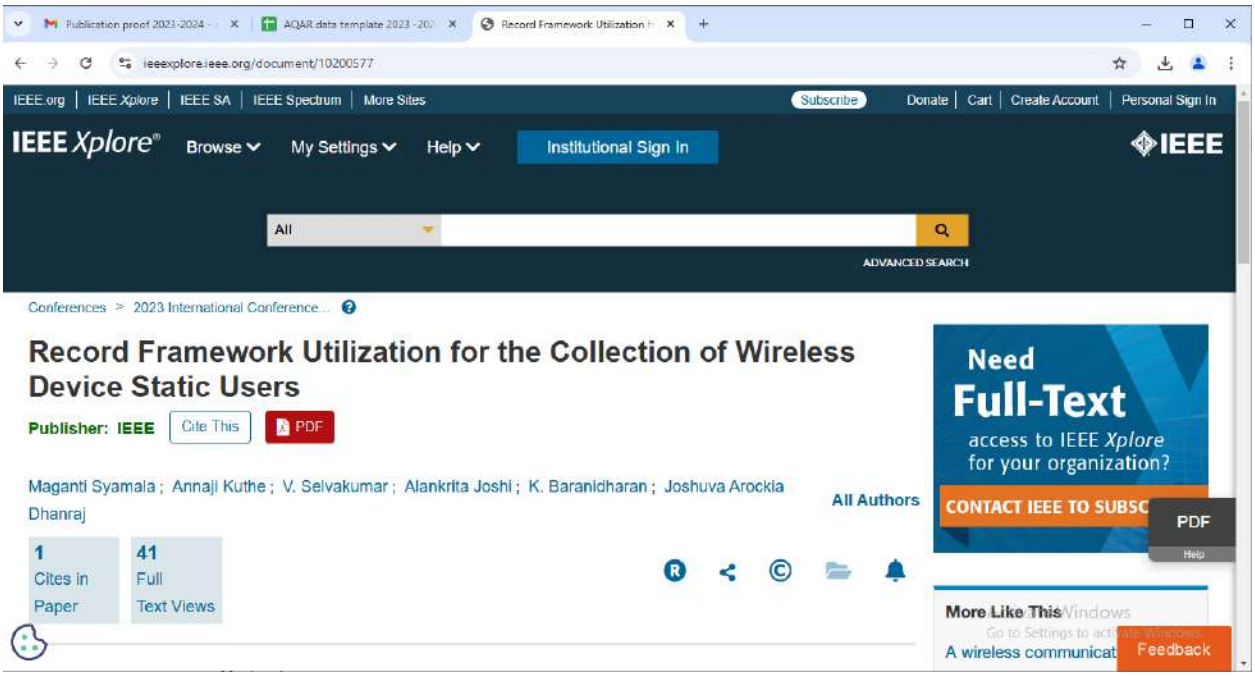
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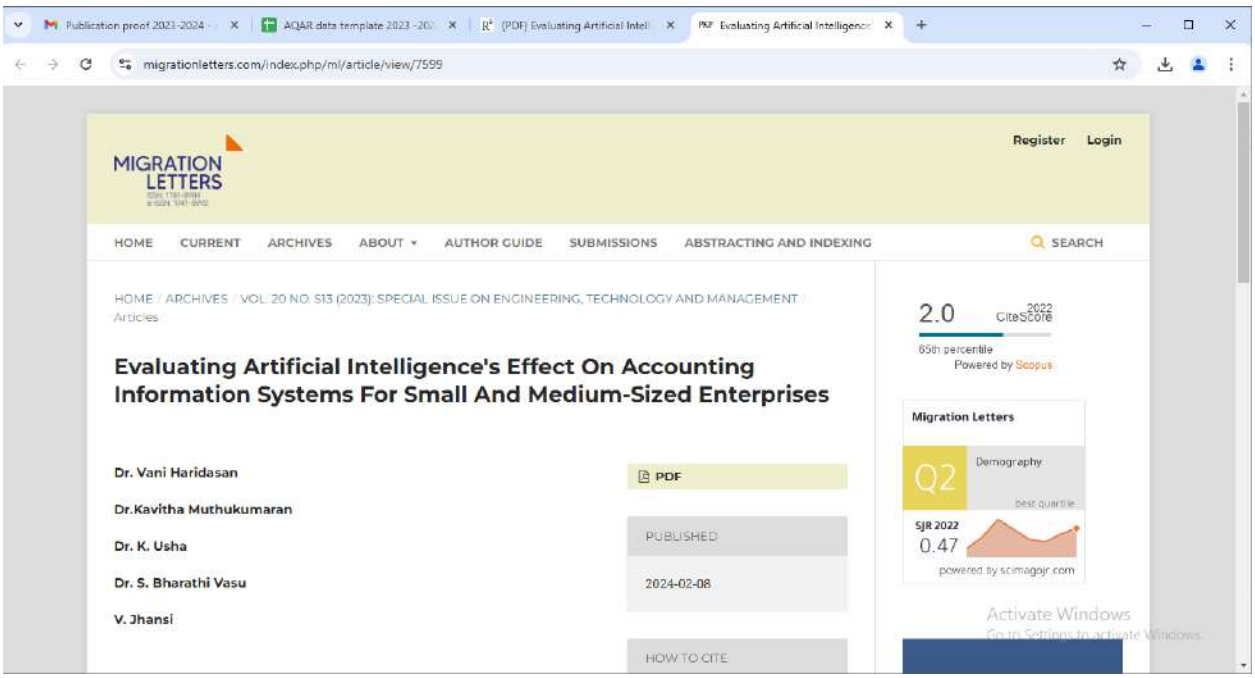
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