





3.3.3 Details of books and chapters in edited volumes / books per teacher during the year

Sl. No.	Name of the Teacher	Title of the Book published	Title of the Chapter published	Title of the proceedings of the conference	Name of the conference	National / International	Year and month of publication	ISBN of the Book/Conference Proceeding	Affiliating Institute of the teacher at the time of publication	Name of the Publisher
1	Ahamed B.S.; Chakravarthy K.S.; Arputhabalan J.; Sasirekha K.; Prince R.M.R.; Boopathi S.; Muthuvel S.	Revolutionizing friction stir welding with Al-integrated humanoid robots	Applied AI and Humanoid Robotics for the Ultra-Smart Cyberspace	NA	NA	International	2024	10.4018/979-8-3693-2399-1.ch005	Sri Sai Ram Institute of Technology	Scopus
2	Palanikumar K.; Natarajan E.; Ponshanmugakumar A.	Application of machine vision technology in manufacturing industriesâ€"a study	Machine Intelligence in Mechanical Engineering	NA	NA	International	2024	10.1016/B978-0-443-18644-8.00018-6	Sri Sai Ram Institute of Technology	Scopus
3	Agrawal A.V.; Sujatha G.; Sasireka P.; Ranjith P.; Cloudin S.; Samp B.	mputing and machine learning in the green power sector: Harnessing sustainable in	Advanced Applications in Osmotic Computing	NA	NA	International	2024	10.4018/979-8-3693-1694-8.ch009	Sri Sai Ram Institute of Technology	Scopus
4	Dhanasekar R.; Vijayaraja L.; Kumar S.G.	Control techniques in sustainable applications	Power Converters, Drives and Controls for Sustainable Operations	NA	NA	International	2024	10.1002/9781119792918.ch21	Sri Sai Ram Institute of Technology	Wiley
5	Natarajan E.; Palanikumar K.; Ramesh S.; Davim J.P.; Kumar K.	Machine intelligence in mechanical engineering: an introduction	Machine Intelligence in Mechanical Engineering	NA	NA	International	2024	10.1016/B978-0-443-18644-8.00013-7	Sri Sai Ram Institute of Technology	Scopus
6	Kavitha R.; Srinivasan R.; Subha P.; Kavitha M.	Region-based convolutional neural networks for selective search	Intelligent and Soft Computing Systems for Green Energy	NA	NA	International	2023	10.1002/9781394167524.ch10	Sri Sai Ram Institute of Technology	Scopus
7	Vijayaraja L.; Dhanasekar R.; Kumar S.G.	An inspection on multilevel inverters based on sustainable applications	Power Converters, Drives and Controls for Sustainable Operations	NA	NA	International	2024	10.1002/9781119792918.ch9	Sri Sai Ram Institute of Technology	Wiley
8	Duraimurugan E.; Jeevitha R.S.; Dillirani S.; Vijayaraja L.; Kumar S.G.	and analysis of 31-level asymmetrical multilevel inverter topology for R, RL, & me	Power Converters, Drives and Controls for Sustainable Operations	NA	NA	International	2024	10.1002/9781119792918.ch13	Sri Sai Ram Institute of Technology	Scopus
9	Prabha R.; Senthi G.A.; Sangeetha S.K.B.; Suganthi S.U.; Roopa D.	Network routing and its real-time practice in broadband wireless networks	Resource Management in Advanced Wireless Mobile Networks	NA	NA	International	2023	10.1002/9781119827603.ch5	Sri Sai Ram Institute of Technology	Scopus
10	Prabha R.; Senthil G.A.; Sangeetha S.K.B.; Suganthi S.U.; Roopa D.	Band Wireless Network Era in Wireless Communication - Routing Theory and Pra	Modeling and Optimization of Optical Communication Networks	NA	NA	International	2023	10.1002/9781119839569.ch15	Sri Sai Ram Institute of Technology	Scopus
11	Ali M.N.; Senthil T.S.; Ilakkiya T.; Hasan D.S.; Ganapathy N.B.S.; Boopathi S.	's role in smart manufacturing transformation for enhanced household product qua	Advanced Applications in Osmotic Computing	NA	NA	International	2024	10.4018/979-8-3693-1694-8.ch014	Sri Sai Ram Institute of Technology	Scopus
12	Subashini V.; Janaki R.	Applications of machine learning algorithms in data encryption standards chim	e Learning and Cryptographic Solutions for Data Protection and Network Sec	n NA	NA	International	2024	10.4018/979-8-3693-4159-9.ch008	Sri Sai Ram Institute of Technology	Scopus
13	Sekar S.; Pitchaimani J.; Tamilselvi A.	Smart Nanomaterials for Antiseptic Application Nan	sotechnology for Smart Prevention, Diagnostics and Therapeutics: Fundament	n NA	NA	International	2024	10.1002/9781394175222.ch2	Sri Sai Ram Institute of Technology	Scopus
14	Durairaj M.; Das S.; Ezhilmath K.; Aancy H.M.; Jayadeva S.M.; Murugan S.	The power of visionary leadership in transforming the Indian education system	Challenges of Globalization and Inclusivity in Academic Research	NA	NA	International	2024	10.4018/979-8-3693-1371-8.ch011	Sri Sai Ram Institute of Technology	Scopus
15	Latha B.; Gopinath B.; Palanikumar K.	Secure cloud web application in an industrial environment: a study	Machine Intelligence in Mechanical Engineering	NA	NA	International	2024	10.1016/B978-0-443-18644-8.00008-3	Sri Sai Ram Institute of Technology	Scopus
16	Veena K.; Meena K.; Rajalakshmi D.; Fathima M.; Thamarai Selvi K.	LDS-LVAT: Lie Detection System-Layered Voice Technology nent	in Internet of Medical Things and Blockchain for Personalized Healthcare: A	p NA	NA	International	2024	10.1201/9781003405450-11	Sri Sai Ram Institute of Technology	Scopus
17	Ponmalar A.; Anand J.	IoMT-based caring system for aged people in a post-COVID scenario ater-	net of Medical Things in Smart Healthcare: Post-COVID-19 Pandemic Scena	n NA	NA	International	2023	10.1016/B978-0-443-15508-6.00022-1	Sri Sai Ram Institute of Technology	Scopus
18	Prabakaran L.; Vedakumari S.W.; Jeevahan A.; Jacqulin Veda Jancy S.	ices of bio-functionalized carbon nanotubes in bioimaging and biosensing application	n-Based Nanomaterials in Biosystems: Biophysical Interface at Lower Dimens	i NA	NA	International	2024	10.1016/B978-0-443-15508-6.00022-1	Sri Sai Ram Institute of Technology	Scopus
19	Prathibha S.; Palanikumar K.; Ponshanmugakumar A.; Rakesh Kumar M.	I reality and virtual reality technologies for maintenance and repair of automobile a	Machine Intelligence in Mechanical Engineering	NA	NA	International	2024	10.1016/B978-0-443-18644-8.00001-0	Sri Sai Ram Institute of Technology	Scopus
20	Soosaimanickam A.; Sundaram S.K.; Sridharan M.B.	d exchange in semiconductor nanocrystals and its impact on the performance of fu	Energy Harvesting and Storage Devices: Sustainable Materials and Methods	NA	NA	International	2023	10.1201/9781003340539-5	Sri Sai Ram Institute of Technology	Scopus

Show all

Source title

Document type Clear (1)

Limited to Book chapter

☐ Mac	hine Intelligence In Mechanical Engineering				4
Pow	er Converters Drives And Controls For Sustainable Operations				3
Adva	anced Applications In Osmotic Computing				2
П Арр	lied AI And Humanoid Robotics For The Ultra Smart Cyberspace				1
Carb	oon Based Nanomaterials In Biosystems Biophysical Interface At Lower Dimensions	3			1
Show all					
Publicat	ion stage				^
Fina	ı				23
Keyword	I				^
Asyr	nmetric				2
Diag	gnosis				2
Indu	ıstry 4.0				2
Mul	tilevel Inverter				2
3-D	Printing				1
Show all					
Affiliatio	on				~
Funding	z sponsor				~
Country	/territory				~
Source t	type				^
Воо	k				21
Воо					2
Languag	ge				^
Eng	lish				23
Export fi	ilter counts				
□ All	l ∨ Export ∨ Download Citation overview ••• More	Hide all abs	tracts Sort by Date (newes	t) 💙	⊞ ∷≡
	Document title	Authors	Source	Year	Citations
<u> </u>	Book Chapter  An inspection on multilevel inverters based on sustainable applications	<u>Vijayaraja, L.,</u> Dhanasekar, R., Kumar, S.G.	Power Converters, Drives and Controls for Sustainable Operations,	2024	2
			pp. 293–314		
	Hide abstract  View at Publisher  Related documents  The design of multilevel inverters finds an optimum space in the phot trains, fuel cell power generation, motor drive systems, etc. This attract				
	deigning a low cost multilevel inverter with a reduced size is a challenge	ging work. In this chapter, a detailed	study of various multilevel in	verters is ca	arried out
	in terms of utilization of multilevel inverters in sustainable energy app inverters with respect to harmonic presence in the output voltage wave analysed in terms of number of voltage levels the design can generate	eform. An examination on recent syn			
	Book Chapter				
2	Design and analysis of 31-level asymmetrical multilevel inverter topology for R, RL, & motor load	<u>Duraimurugan, E.,</u> <u>Jeevitha, R.S., Dillirani, S.</u> ,	Power Converters, Drives and Controls for	2024	1
		Vijayaraja, L., Kumar, S.G.	Sustainable Operations, pp. 391–409		

	Document title	Authors	Source	Year Citation	ns
	Hide abstract  View at Publisher  Related documents  This venture presents an asymmetrical multilevel inverter topology constru output voltage levels. Initially, the working of the proposed inverter with th load of power rating 0.25 HP using MATLAB/Simulink. The validations of r	irty-one levels is studied with the	R and RL load. Then, it is ext	tended to a motor	
3	Book Chapter  Control techniques in sustainable applications	<u>Dhanasekar, R.,</u> <u>Vijayaraja, L., Kumar, S.G.</u>	Power Converters, Drives and Controls for Sustainable Operations, pp. 631–658	2024	0
	Hide abstract  View at Publisher  Related documents In recent years, renewable energy sources (RES) have played a vital role to reconverters are effective for changing characteristics of voltage and current, development in various renewable energy applications. The control technic variations. Recently, sliding mode controls have become attractive due their efficient tool for complex non-linear multi-variable plants. In recent years, against parameter uncertainties. The system which comprises PBC achieve Predictive Control (MPC) has been a likely control technique for power electropacity. This chapter deals with the concepts of Sliding Mode Control, Pass	The introduction of control syster ues has the ability to give robust probust probust performance. In variable sepassivity-based Control (PBC) has the desired control parameters we tronic converters because of its questions.	n techniques in the enginee performance and is insensitive structure systems, a sliding to been adopted in RES due to with no peak overshoots and alok reaction and high controls.	ring field has made ve to parameter mode control is an its robustness oscillations. Model ol data transfer	
	Discover early research ideas  View preprints published by authors to have an early idea of upcoming resolview 16 preprints	earch documents.			
4	Book Chapter Revolutionizing friction stir welding with Al-integrated humanoid robots	Ahamed, B.S., Chakravarthy, K.S., Arputhabalan, J., Boopathi, S., Muthuvel, S.	Applied AI and Humanoid Robotics for the Ultra- Smart Cyberspace, pp. 120–144	2024	<u>1</u>
	Hide abstract  View at Publisher  Related documents  This chapter explores the use of Al-integrated humanoid robots in friction combining Al capabilities with humanoid robots' dexterity and adaptability, and accuracy by continuously analyzing real-time sensor data, while Al-povenabled robots in FSW increase automation, reduce human operator reliar such as cybersecurity concerns, regulatory hurdles, and ethical implications advanced Al algorithms, optimizing robot-human collaboration, and exploefficiency, and safety, but necessitates interdisciplinary collaboration, strate challenges.	significant advancements can be vered predictive maintenance can nee, and minimize safety risks in his require careful consideration. Furing new applications beyond trad	achieved. AI algorithms can minimize downtime and en azardous environments. Hov ture research should focus o itional materials. The approa	improve precision hance efficiency. Al- wever, challenges on developing ach offers precision,	
5	Book Chapter Applications of machine learning algorithms in data encryption standards	Subashini, V., Janaki, R.	Machine Learning and Cryptographic Solutions for Data Protection and Network Security, pp. 111– 134	2024	0
	Hide abstract  View at Publisher  Related documents  Encryption plays a crucial role in safeguarding sensitive information in tod algorithms, such as RSA and AES, for securing data. The proliferation of digprompted significant advancements in encryption techniques. As data brear robust encryption techniques. Machine learning algorithms, with their abil enhancing encryption processes. This chapter explores the applications of a security, speed, and versatility. The authors delve into various aspects, includemonstrating how machine learning can contribute to the development of	gital communication and the incre ches and cyber threats become mo ity to adapt and learn from data pa machine learning algorithms in en Iding data encryption, key manage	easing need for secure data to ore sophisticated, there is an atterns, have emerged as a v acryption, highlighting their ement, authentication, and i	ransmission have n increasing need fo aluable tool in potential to improve	
6	Book Chapter IoT's role in smart manufacturing transformation for enhanced household product quality	Ali, M.N., Senthil, T.S.,  Ilakkiya, T.,  Ganapathy, N.B.S.,  Boopathi, S.	Advanced Applications in Osmotic Computing, pp. 252–289	2024 ]	<u>12</u>

	Hide abstract Niew at Publisher Related documents  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 variousfacets 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.					
7	Book Chapter  Cloud computing and machine learning in the green power sector: Harnessing sustainable innovations	Agrawal, A.V., Sujatha, G., Sasireka, P., Cloudin, S., Samp, B.	Advanced Applications in Osmotic Computing, pp. 151–179	2024	0	
	Hide abstract  View at Publisher  Related documents  The chapter explores the potential of cloud computing, machine learn consumption. Cloud computing offers efficient data storage and proce and consumption. It highlights how cloud-based infrastructure can en systems. Edge computing brings intelligence renewable energy source like data privacy, security, and regulatory compliance in the green pow technologies can optimize renewable energy production and contributed.	essing, while machine learning algo hance renewable energy forecasting es, reducing latency and energy con ver sector. It reviews case studies an	rithms optimize energy produ g, energy grid management, a sumption. The chapter also ad d emerging trends to demons	ction, distribution nd demand respo dresses challenge	nse	
8	Book Chapter The power of visionary leadership in transforming the Indian education system	<u>Durairaj, M., Das, S.,</u> <u>Ezhilmath, K.,</u> <u>Jayadeva, S.M.,</u> <u>Murugan, S.</u>	Challenges of Globalization and Inclusivity in Academic Research, pp. 162–185	2024	0	
	Hide abstract Niew at Publisher Related documents  The book chapter explores the transformative potential of visionary lea education, policy reform advocacy, empowering educators, fostering in advocates for a holistic approach to education, focusing on diversity, a impact of visionary leaders in the Indian education sector, highlighting the challenges faced by these leaders and offers lessons to be learned. education in India.	nnovation, inclusivity, engaging cor ccessibility, and quality. The chapte g their ability to drive significant ch	nmunities, and data-driven de r delves into the characteristics anges, innovation, and progre	cision-making. It , strategies, and ss. It also discusse	es	
9	Book Chapter  Smart Nanomaterials for Antiseptic Application	<u>Sekar, S., Pitchaimani, J.,</u> <u>Tamilselvi, A.</u>	Nanoscience and Nanotechnology for Smart Prevention, Diagnostics and Therapeutics: Fundamentals to Applications, pp. 23–34	2024	0	
	Hide abstract  View at Publisher  Related documents  Skin infections are the most common in humans or animals mainly ca suffer from many dermatological diseases such as impetigo, abscess, a shampoo/lotion is recommended to suppress the spread of microbes.  Besides, the quotidian use of antiseptics in our daily routine. But we k a huge urge for a broad range of studies on novel antiseptics. Over the aspects. Unlike bulk materials, nanomaterials have a high surface-to-ve broad and potential use of nanomaterials, they have been the subject of have discussed the formulation and the important application of nano metallic nanoparticle and their antiseptic property against infectious in	and staph infection. Frequent cleaning There are several biocides were use now that not all microorganisms are past few decades, nanotechnology olume ratio, reflecting a unique act of significant investigation in various materials as antiseptic agents. Espe	ng of the skin with antiseptic s d in hospitals to prevent noso e resistant to these antiseptic a has delivered a great effect or ion in fighting against harmfu is fields like medicine, food, ar	soap or comial infections. agents. Hence, the public use in var I microbes. Due to nd surface. Hence	ere is rious to the	
10	Book Chapter  Recent trends and practices of bio-functionalized carbon nanotubes in bioimaging and biosensing applications in biomedical sectors	<u>Prabakaran, L.,</u> <u>Vedakumari, S.W.,</u> <u>Jeevahan, A.,</u> Jacqulin Veda Jancy, S.	Carbon-Based Nanomaterials in Biosystems: Biophysical Interface at Lower Dimensions, pp. 361–393	2024	0	

Authors

Source

Year

Citations

Document title

Document title Authors Source Citations Related documents Nanotechnology has led to various breakthroughs in the field of science and technology. One such inimitable innovation is the development of carbon nanotubes (CNTs), which hold remarkable mechanical, electrical, and optical properties suitable for biomedical applications. The structure of the CNTs can be modified or functionalized by conjugating organic or inorganic materials, and this has gained a lot of attention among researchers who are working in the field of cancer detection and therapy. The CNTs, especially one-dimensional semiconducting single-walled carbon nanotubes (SWCNTs), show fluorescence emission in the near-infrared spectral region and hold robust resonance Raman's scattering suitable for bioimaging and biosensing applications in biomedical sectors. When coupled with metal nanoparticles, CNTs serve as contrast agents for multimodal imaging in basic research and animal/clinical diagnostic applications. This chapter will give a deep insight into the recent developments in disease diagnosis using both SWCNTs and multiwalled CNTs. **Book Chapter** 11 LDS-LVAT: Lie Detection System-Layered Voice Technology 2024 0 Veena, K., Meena, K., Technological Rajalakshmi, D., Advancement in Internet Fathima, M., of Medical Things and Thamarai Selvi, K. Blockchain for Personalized Healthcare: Applications and Use Cases, pp. 187-203 Hide abstract ∧ View at Publisher ¬ Related documents When dealing with criminal cases, investigators find detecting lies and dishonesty to be a considerable issue. In comparison to normal human conduct, the process of identifying a liar has a higher proportion of importance in terms of external behavior and cognitive power of the brain. Mel-frequency cepstrum coefficients (MFCC) approach extracts distinctive features from the original electroencephalogram data and utilizes them in conjunction with the neural network (NN) methodology for training and evaluation. Existing lie detection systems rely on physiological and behavioral factors, resulting in limited effectiveness. However, the pursuit of a computational model for automating lie detection has not been extensively explored. Researchers have recently focused on training machine learning models, including sequential NNs, solely using acoustic data from speech to enhance the accuracy of lie detection. The MFCC, energy envelopes, and pitch contours are constructed using a balanced data set of deceptive and non-deceptive speech recordings taken from a twoperson deception game. This model's highest accuracy for lie detection is 85.8%. The layered voice analysis is a new technique where an analysis of the same is done. It is capable of detecting and quantifying a wide range of psychological reactions that are suggestive of shifts: in the tested party's perception, and it will warn the trained operator to follow its indications and leads. Book Chapter  $\prod 12$ O Secure cloud web application in an industrial environment: a Machine Intelligence in 2024 Latha, B., Gopinath, B., study Palanikumar, K. Mechanical Engineering, pp. 379-391 Hide abstract ∧ View at Publisher ¬ Related documents 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. **Book Chapter**  $\square$  13 2024 1

Application of augmented reality and virtual reality technologies for maintenance and repair of automobile and mechanical equipment

Prathibha, S., Palanikumar, K., Ponshanmugakumar, A., Machine Intelligence in Mechanical Engineering,

pp. 63-89

Rakesh Kumar, M.

Hide abstract ∧ View at Publisher ¬ Related documents

Emerging technologies like 3D printing, industrial IOT, artificial intelligence, and reality technologies augmented reality (AR) and virtual reality are considered to reshape the manufacturing industry. Out of these industry 4.0 technologies, AR/VR promises replacement of manpower in the mechanical engineering field through automation. Mechanical engineering requires large manpower to do routine processes like machine assembly and product maintenance, provide support services for the product, and develop complex designs using computer-aided design. Training the mechanical engineers for tools using 2D and 3D imaging will help the engineers to have a realistic understanding of the concepts, and AR/VR technologies will have a high impact in delivering realistic training to mechanical engineers. AR/VR technology is also very useful in giving quick maintenance of mechanical tools, machines, or automobiles in critical and complex situations with a realistic solution. AR is estimated to become a 400 billion market globally by 2024 in the field of maintenance, repair, and overhaul in the mechanical engineering field. In this chapter, we discuss two case studies of application of AR/VR technology for maintenance of automobiles and maintenance of equipment in industry. An automobile's life is not long; with years, due to various environmental conditions, the machineries may witness a few problems. It may also lead to breakdown while traveling on a long road trip. Whenever a fault occurs, it is not optimum to call the mechanic all the time. It may be a time-consuming task. To do the repair works by the user, we have come up with an AR-integrated mobile application. The mobile application can give step-by-step detailed instructions to detect the fault in the automobile, using which the user can repair their cars on their own. Also, the application can be used by the persons who wish to initialize their career in the automobile industry. The user can now learn the basics of mechatronics easily. This application allows the user to erase the fear of the breakdowns/other faults in their vehicle during a long journey. COVID-19 pandemic has made people shift to remote working, which has led to the adoption of AR/VR technology in maintenance and repair of equipment in mechanical industries. Reality technologies integrated with smart devices like IP cameras and smartphones can help in providing instructions to repair the equipment either through voice or video from on-site technicians to the employees or customers.

	Document title	Authors	Source	Year	Citations
<u> </u>	Application of machine vision technology in manufacturing industries—a study	<u>Palanikumar, K.,</u> <u>Natarajan, E.,</u> Ponshanmugakumar, A.	Machine Intelligence in Mechanical Engineering, pp. 91–122	2024	<u>1</u>
	Hide abstract  View at Publisher  Related documents  Machine vision is the set of data and techniques used to conduct image-ba automation. Machine Vision (MV) is utilised for optical gauging, quality co and process industries management. These are some possibilities for comp quality and keep the process operating smoothly. Process control, specialis electronic packaging industry, and the automobile industry, to name a few measurements, rearrange optical characters, regulate a process with image assembly line. The major goal of this research is to raise public knowledge scrap goods as a result of nonconformities caused by the use of machine w done on scrap product during succeeding manufacturing stages. Each of t increase manufacturing quality while minimising product waste owing to method manufacturer showing how to evident the concept to confirm that	ntrol, sorting, component assembly pleting a task. Verifying componer sed applications, the pharmaceutic, all use machine vision technologies processing, and identify whether of machine vision technologies. This is is manufacturing these goals corresponded to a resemon-conformance difficulties. Mos	ly inspection, presence or a ats with machine vision techal industry, the food and be ies. This article discusses ho final product components a his will result in greater prog process, and the end of a arch goal. In other words, the	bsence recogn anology helps of verage industre ow to acquire are on or off the duction quality ny value-addeonis technology	ition, ensure y, the ee y, less d work will
<u> </u>	Book Chapter  Machine intelligence in mechanical engineering: an introduction	<u>Natarajan, E.,</u> <u>Palanikumar, K.,</u> <u>Ramesh, S., Davim, J.P.,</u> Kumar, K.	Machine Intelligence in Mechanical Engineering, pp. 1–12	2024	0
	Hide abstract Niew at Publisher Related documents  Machine intelligence is deployed by integrating sensory devices, machine of employed in any real-time application. Artificial intelligence is employed to machine intelligence can be from small scale to robust autonomous product attention of the industrialists, many notable research and product develop the notable implementations being conducted in mechanical engineering.	o monitor and control the operation action systems. After Industry 4.0 a ments have been done in the past	ns by taking the required dond	ecisions. The u	the
<u> </u>	Book Chapter  Evaluation of the Compression Properties of 3D Printed EPA-GF  TPMS Structures	Jeyanthi, S., Prabhu, R., Arunkumar, R., Kumar, S.V., Lal, L.P.J.	Springer Proceedings in Materials , 36, pp. 237–249	2024	1
	Hide abstract  View at Publisher  Related documents 3D printed minimal surface structures have received considerable research applications. The mechanical performance of these structures is significant To explore the behavior of structural profiles, four different designs were d and evaluated by axial compression experiments at a quasi-static staining plastic deformation, and failure mechanism of short fiber reinforced struct plays an important role in unit cell selection and design. It has been found absorption capacity, while the Primitive structure has the lowest range of c structure recorded the lowest induced stress and highest efficiency among the structure, which confirms uniform stress transfer to successive layers.	tly affected by their structural conf eveloped and 3D printed from eP/ rate. The experimental results prov cures. The results of axial compress that the Diamond structure has the ompressive modulus and energy a	iguration, materials, and 3D A-GF materials using a fusin ide insight into the compre sion experiments revealed the ne highest compressive mod obsorption capacity. Howeve	O printing para ng filament fab ssion propertion nat unit cell to dulus and ener er, the Primitiv	rication es, pology egy
<u> </u>	Book Chapter  IoMT-based caring system for aged people in a post-COVID scenario	Ponmalar, A., Anand, J.	Internet of Medical Things in Smart Healthcare: Post-COVID- 19 Pandemic Scenario, pp. 207–224	2023	<u>8</u>
	Hide abstract  Related documents  Numerous aged people are living unaccompanied in their households. If to current scenario because of the Covid-19 pandemic situation. The foremos a reasonable cost for the aged people. The technique describes the layout of unit. The device is capable of well-known a falling incident to the touch in possible, and to offer essential scientific remedies for the injured aged in a software program that paintings seamlessly in detecting and reporting a false soon as their region could be shared to the caretaker. The hardware elements of the caretaker.	t objective of this chapter is to des of the android-based totally fall ded dividual such that the incident ma quick span of time. The layout an ill at domestic and still have an bro	ign an android-based tumb ection sensor device with a y be said to the ambulance d implementation integrate ought normal monitoring d	ole detection de pulse value tra branch to the seech hardwarevice. So each	evice at acking soonest e and 10 mins

function of the person whether or not it's miles on a falling mode at the same time as the software program aspect includes a few formulation that come across the fallings and triggers the alarm and sends notification thru Short Message Service (SMS) with the precise region via means of the usage of the

Global Positioning System (GPS) in the smart Android phone.

	Document title	Authors	Source	Year	Citations
18	Chemical aspects of ligand exchange in semiconductor nanocrystals and its impact on the performance of future generation solar cells	Soosaimanickam, A., Sundaram, S.K., Sridharan, M.B.	Energy Harvesting and Storage Devices: Sustainable Materials and Methods, pp. 108–131	2023	0
	View at Publisher   Related documents				
	Book Chapter		D M	2022	
<u> </u>	Network routing and its real-time practice in broadband wireless networks	<u>Prabha, R., Senthi, G.A.,</u> <u>Sangeetha, S.K.B.,</u> <u>Suganthi, S.U., Roopa, D.</u>	Resource Management in Advanced Wireless Mobile Networks, pp. 99–112	2023	<u>1</u>
	Hide abstract				
	Wireless technologies that enable people to link their home networks to demand. Despite the fact that many network architectures for broadban emerging technology and locales, Broadband Wireless Networking (BW strong dominance in various roles. Indeed, allowing such broadband nethe rural and isolated communities' quality of life, digital interaction, an next generation BWNs' performance in managing real-time and QoS-se Unfortunately, today's cutting-edge routing standards in BWNs are not suffer from innate problems with regard to efficient communication-bast to provide BWNs with a straightforward roadmap of theoretical context	d wireless networking have been st N) has unquestionably been the mostworking and creating a group networking and creating a group networking and creating a group of efficient applications, as well as pleasideally suited to tackle this task, as sed implementations, according to	udied and implemented in prost common architecture that work has numerous advantage cient communication is a difficing both service providers and these standards are fundament the literature. As a result, the	actice due t has demon es. This wou cult proble d consume ntally comp	to strated uld boost m for the ers.
20	Region-based convolutional neural networks for selective search	Kavitha, R., <u>Srinivasan, R.,</u> Subha, P., Kavitha, M.	Intelligent and Soft Computing Systems for Green Energy, pp. 141–150	2023	0
	scenario created on the computer. This study investigates a type of Harr light of the immense scene and high-resolution image stitching challen feature points are then rough-matched using Normalized Cross Correla Second, to implement the image registration process, a cylindrical projecnhanced weighting average fusion technique, which reduces image fusion technique.	ges. To begin, the feature points artion, then the algorithm RANSAC iection transformation model is used	e extracted using Harris corne s employed to eliminate incor d. Finally, to fuse photos, this	er detection rect match study empl	n. The ing. oys an
	Book Chapter				
<u> </u>	Machine Learning Methods For Intelligent Health Care	<u>Kalaivani, K., Valarmathi, G.,</u> <u>Kalaiselvi, T.,</u> <u>Subashini, V.</u>	Mobile Computing Solutions for Healthcare Systems, pp. 49–61	2023	0
	Hide abstract  View at Publisher  Related documents  The headway of man-made reasoning techniques overlays the methods learning. This part presents an outline of Machine learning procedures a well-being to empower Artificial knowledge based on a current innovative and openings in Machine adapting, especially in the medical services sp	applied to brilliant medical services. ve improvement to medical care. M	AI procedures are regularly a oreover, the section likewise p	pplied to b	rilliant
	Book Chapter				
22	Broadband Wireless Network Era in Wireless Communication - Routing Theory and Practices	<u>Prabha, R., Senthil, G.A.,</u> <u>Sangeetha, S.K.B.,</u> <u>Suganthi, S.U., Roopa, D.</u>	Modeling and Optimization of Optical Communication Networks, pp. 267–279	2023	0
	Hide abstract  View at Publisher  Related documents  Wireless technologies that enable people to link their home networks to demand. Despite the fact that many network architectures for broadban emerging technology and locales, Broadband Wireless Networking (BW strong dominance in various roles. Indeed, allowing such broadband ne the rural and isolated communities' quality of life, digital interaction, an next generation BWNs' performance in managing real-time and QoS-se Unfortunately, today's cutting-edge routing standards in BWNs are not suffer from innate problems with regard to efficient communication-base to provide BWNs with a straightforward roadman of theoretical context.	d wireless networking have been st N) has unquestionably been the mostworking and creating a group networking and creating a group networking and creating a group of efficient of the design of efficients applications, as well as pleasideally suited to tackle this task, as sed implementations, according to	udied and implemented in prost common architecture that work has numerous advantage cient communication is a difficial both service providers and these standards are fundamental literature. As a result, the	actice due thas demones. This would proble deconsumentally comp	to strated uld boost m for the ers.

to provide BWNs with a straightforward roadmap of theoretical context so that they can manage various efficient routing mechanisms.

	Document title	Authors	Source	Year	Citations
23	Detection of Breast Cancer Diagnosis Algorithm Based on	Singh, B., Ahmed, T.I.,	EAI/Springer Innovations	2023	0
	TWCNN Technique	Suganthi, P., Pant, K.,	in Communication and		
		Koul, M.K.	<u>Computing</u>		
			, Part F274, pp. 117–132		

Hide abstract ∧ View at Publisher ¬ Related documents

Breast cancer (BC) is one of the foremost causes of death worldwide and requires appropriate treatment. As a result, this chapter categorises breast MRI channel images as undesirable or commonplace. Many researchers in the medical domain are adapting modern techniques to predict BC diseases. These techniques always support experts in identifying diseases, taking preventive measures, and facilitating treatment planning. The study of BC diagnosis from MRI of the breast using IP methods is one of the most prevalent and demanding fields in research. However, many patients are suffering from BC without any discernible age distinction. Identification of the prediction of BC in the early stages will save many human lives. Our most recent suggested Two-Weight Convolution neural network (TWCNN) appearance uses image mixture and TWCNN approaches. To begin with, multiple pre-processing operations have been used by taking advantage of multi-focus image combinations in order to improve the accuracy of MRI images. During energise, pre-processed images are energised into the recently proposed 13-layer TWCNN structure for RDS classification. Two experiments on two separate databases were used to assess the consistency of our TWCNN protocol. The MRI image dataset is divided into 20% research and 80% preparation sets in the first attempt, but a tenfold cross-validation of the image dataset is done in the second attempt. The accuracy obtained by our methodology on dataset 1 in the first test is 98.33%. The second test is 98.77%, while in dataset 2, the exactness obtained in tests 1 and 2 is 92.22% and 93.33%, respectively.

Display 200 results 🗸

Back to top

# **About Scopus**

What is Scopus

Content coverage

Scopus blog

Scopus API

Privacy matters

## Language

日本語版を表示する

查看简体中文版本

查看繁體中文版本

Просмотр версии на русском языке

## **Customer Service**

Help

**Tutorials** 

Contact us

### **ELSEVIER**

Terms and conditions *¬* Privacy policy *¬* Cookies settings

All content on this site: Copyright © 2024 Elsevier B.V.  $\triangledown$ , its licensors, and contributors. All rights are reserved, including those for text and data mining, Al training, and similar technologies. For all open access content, the relevant licensing terms apply.

We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies  $\triangledown$ .

**€**RELX™