



CHILDREN'S EDUCATION SOCIETY (Regd.)

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Books and chapter edited volumes/books published and paper published in national and international conference proceeding

Index

Sl. No	Particulars	Page. No
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3.3.3

In the year 2023, the faculty of The Oxford College of Engineering has presented 19 papers in international conferences and published 14 Book/Book Chapters

Sl. No	Academic Year	Conferences		Book
		National	International	
1	2023	0	19	14
Total				33

In the year 2024, the faculty of The Oxford College of Engineering has presented 14 papers in international conferences and published 21 Book/Book Chapters

Sl. No	Academic Year	Conferences		Book
		National	International	
1	2024	0	14	21
Total				35

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Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Link to document
1	J Jesy Jane t Kumari	Electronic Circuits Analysis & its Simulation with PSPICE	NA	NA	NA	National	2023	ISBN-13: 9789355359506	The Oxford College of Engineering	Amazon - Kindle	https://www.amazon.in/Electronic-Circuits-Analysis-Simulation-PSPICE/dp/9355359500
2	Sathya M	NA	An Empirical Study on E-Commerce site using unique AI based features and Data science	4th International Conference on Electronics and Sustainable Communication System - ICESC 2023, 6th - 8th July.	4th International Conference on Electronics and Sustainable Communication System - ICESC 2023, 6th - 8th July.	International	2023	ISBN: 979-8-3503-0008-6	The Oxford College of Engineering	IEEE	https://ieeexplore.ieee.org/document/10193110



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			tools								
3	Ram ya Sri M	- NA	An Empiric al Study on E- Comme rce site using unique AI based features and Data science tools	4th Internation al Conferenc e on Electronic s and Sustainabl e Communi cation System - ICESC 2023, 6th - 8th July.	4th International Conference on Electronics and Sustainable Communicati on System - ICESC 2023, 6th - 8th July.	Internat ional	2023	ISBN: 979-8- 3503- 0008-6	The Oxford College of Engineering	IEEE	https://ieeexplore.ieee.org/document/10193110



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4	Lenish Pramiee J	PROBLEM SOLVING AND PYTHON PROGRAMMI NG	NA	NA	NA	Nationa l	2023	ISBN- 13:978- 93- 5577- 603-7	The Oxford College of Engineering	Charulat ha Publicati ons	https://www.charulathapublications.com/products/problem-solving-and-python-programming-1
5	Manjula L	PROBLEM SOLVING AND PYTHON PROGRAMMI NG	NA	NA	NA	Nationa l	2023	ISBN- 13:978- 93- 5577- 603-7	The Oxford College of Engineering	Charulat ha Publicati ons	https://www.charulathapublications.com/products/problem-solving-and-python-programming-1
6	Vinod D	NA	Trust Value- Based Energy- Efficient Routing to Improve Lifetime in Heterogeneous WBAN	Internation al Conferenc e on Artificial Intelligenc e and Applicatio n(ICAIA) Alliance Technology Conferenc e	International Conference on Artificial Intelligence and Application(I CAIA)Allian ce Technology Conference	Internat ional	2023	ISBN:9 78-1- 6654- 5628-9	The Oxford College of Engineering	IEEE	https://ieeexplore.ieee.org/document/10169521



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7	Vinotha D	NA	Prediction of Infant Growth using the Random Forest Algorithm	3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)	3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)	International	2023	ISBN:979-8-3503-9927-1	The Oxford College of Engineering	IEEE	https://ieeexplore.ieee.org/abstract/document/10182723
8	Dr, E. Saravana Kumar	NA	IoT based Innovative Teaching Learning using Smart Class Rooms	2023 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS)	2023 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS)	International	2023	10.1109/ICSCDS56580.2023.10104589	The Oxford College of Engineering	IEEE	https://ieeexplore.ieee.org/document/10104589



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9	Ranjith B Gowda; Vilas T, V; Komal G D; Venkatesh Badageri; Preetha Sharan; Ciro Rodriguez	NA	Bacterial Detection in Contaminated Water Using a Photonic Crystal Sensor	2023 International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES)	2023 International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES)	International	2023	979-8-3503-4729-6	The Oxford College of Engineering	IEEE	https://www.researchgate.net/publication/372969536_Bacterial_Detection_in_Contaminated_Water_Using_a_Photonic_Crystal_Sensor
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10	Suchanda Misra; V. Sharmili; Saptha Sree M.; Sneha S.; Saara K.; Preeti Sharan	NA	Numerical Analysis for Flat Wheel Detection at Different Wagon Load	2023 10th International Conference on Computing for Sustainable Global Development (INDIACom)	2023 International Conference on Smart Systems for applications in Electrical Sciences (ICSSES)	International	2023	978-93- 80544- 47-2	The Oxford College of Engineering	IEEE	https://ieeexplore.ieee.org/document/10112249
11	Neil Roy, Sandip Kumar Roy, Preeti Sharan	NA	Effective Brain Tumor Segmentation for MRI Image Analysis using	2023 10th International Conference on Computing for Sustainable Global Development (INDIACom)	2023 10th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2023	978-1- 6654- 7703-1	The Oxford College of Engineering	IEEE	https://ieeexplore.ieee.org/document/10112545



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	an		Dual Attention Network based YOLACT++	ent (INDIACom)							
12		NA	FEM Analysis of Railway Brake Disc for Safety of Train	2023 10th International Conference on Computing for Sustainable Global Development (INDIACom)	2023 10th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2023	978-93-80544-47-2	The Oxford College of Engineering	IEEE	https://ieeexplore.ieee.org/document/10112430
13	Roberto Santos, Paula Santos,	NA	Technological Coefficient to Improve Research	International Conference on Intelligent Technologies	International Conference on Intelligent Technologies	International	2023	978-981-99-1912-3	The Oxford College of Engineering	IEEE	https://link.springer.com/chapter/10.1007/978-981-99-1912-3_16



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	Pree ta Shar an, Ciro Rodr igue z		Develo pment and Innovat ion Factors in the World								
14	Anu p M Upa dhya ya, Pree ta Shar an	Photonic MEMS Sensor for Biomedical Applications	NA	NA	NA	Internat ional	2023	978100 333168 1	The Oxford College of Engineering	Taylor s and Francis	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003331681-3/photonic-mems-sensor-biomedical-applications-anup-upadhyaya-preeta-sharan
15	Pree ta Shar an	Distributed Bragg Reflector Biosensor for Medical Application	NA	NA	NA	Internat ional	2023	978100 333168 1	The Oxford College of Engineering	Taylor s and Francis	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003331681-2/distributed-bragg-reflector-biosensor-medical-applications-



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											ranjith-gowda-preeta-sharan
16	Resna SR	NA	Space vector Pulse Width Modulation with 7 Level ANPC Converters for Capacitor Voltage Balancing	3rd International Conference on Innovative Practices in Technology and Management (ICIPTM)	3rd International Conference on Innovative Practices in Technology and Management (ICIPTM)	International	2023	979-8-3503-3624-5	The Oxford College of Engineering	IEEE	https://ieeexplore.ieee.org/abstract/document/10112526



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17	Anup M Upadhyaya	NA	Design and Analysis of Pressure Sensor based on Micro Hole Photonic Crystal Slab	2023 10th International Conference on Computing for Sustainable Global Development (INDIACom)	2023 10th International Conference on Computing for Sustainable Global Development (INDIACom)	International	2023	978-93-80544-47-2	The Oxford College of Engineering	IEEE	https://ieeexplore.ieee.org/abstract/document/10112526
18	Mr. Jaideep R	NA	ROBOTIC HAND GESTURE	ICGCP	ICGCP	International	2023	ISBN: 9798392733033	The Oxford College of Engineering	Google Scholar	https://sipinternationalpublishers.com/product-detail.php?PID=MTYxOQ==
19	CA Bindyashree	Machine learning and Data Science using R	NIL	NIL	NIL	International	2023	978-93-5757-969-8	The Oxford College of Engineering	SCIENTIFIC INTERNATIONAL PUBLISHING HOUSE	https://ieeexplore.ieee.org/document/10430757



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20	Preeti Sharani	NIL	Mathematics-Based Monitoring of Railway Systems Using Fibre Bragg Grating Temperature Sensors	2023 4th International Conference on Communication, Computing and Industry 6.0 (C216)	C216 Conference	International	2023	979-8-3503-2732-8	The Oxford College of Engineering	IEEE Explorer	https://ieeexplore.ieee.org/document/10430757
21	Preeti Sharani	NIL	Thyroid Cancer Detection Using Artificial Neural Network and Photonic Sensor	2023 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering	UPCON	International	2023	979-8-3503-8247-1	The Oxford College of Engineering	IEEE Explorer	https://ieeexplore.ieee.org/abstract/document/10434811



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				(UPCON)							
22	Preeti Sharani	NIL	Design and Development of Plantar Pressure Measurement Device Using Optical Sensor	2023 IEEE Photonics Conference (IPC)	IEEE Photonic Conference	International	2023	2575-274X	The Oxford College of Engineering	IEEE Explorer	https://ieeexplore.ieee.org/abstract/document/10360665



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23	Preeti Sharan	Photonic MEMS Sensor for Biomedical Applications	NIL	NIL	NIL	International	2023	9781003331681	The Oxford College of Engineering	Apple Academic Press	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003331681-3/photonic-mems-sensor-biomedical-applications-anup-upadhyaya-preeta-sharan
24	Preeti Sharan	NIL	Bacterial detection in contaminated water using a photonic crystal sensor	2023 International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES)	ICSSSES	International	2023	979-8-3503-4729-6	The Oxford College of Engineering	IEEE Explorer	https://ieeexplore.ieee.org/abstract/document/10199921



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25	Preeti Sharan	Distributed Bragg Reflector Biosensor for Medical Applications	NIL	NIL	NIL	International	2023	9781003331681	The Oxford College of Engineering	Apple Academic Press	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003331681-2/distributed-bragg-reflector-biosensor-medical-applications-ranjith-gowda-preeta-sharan
26	Dr. V. Vijaya Kumari	Comparison of Face Recognition Using PCLDA and Neural Network	NIL	NIL	NIL	International	2023	ISBN: 978-81-967723-1-4,	The Oxford College of Engineering	BP International	https://stm.bookpi.org/ACST-V9/article/view/12625
27	Jayakumar N, Nishachari Rani & Dr. B. Devi	Multilevel Cascaded Boost Converter Fed Multilevel Inverter for Renewable Energy Applications	NIL	NIL	Wiley - IEEE - Book Chapter	International	2023	ISBN: 9781119893974	The Oxford College of Engineering	Wiley - IEEE - Book Chapter	https://ieeexplore.ieee.org/document/9984010



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	Vighneshwari										
28	Nisha C Rani	NIL	THD minimization of ZVT-ZCT Quasi Resonant SEPIC Converter with proposed Harris Hawks Optimization Technique.	INDIACom-2024; 2023 10th International Conference on Computing for Sustainable Global Development (INDIACom)	Indiacom 2023	International	2023	ISBN:978-93-80544-51-9	The Oxford College of Engineering	IEEE Explore	https://ieeexplore.ieee.org/document/10112420
29	Anup M Upadhyaya	NIL	Design and Development of Plantar Pressur	2023 IEEE Photonics Conference (IPC)	IEEE Photonic Conference	International	2023	2575-274X	The Oxford College of Engineering	IEEE Explorer	https://ieeexplore.ieee.org/abstract/document/10360665



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			e Measur ement Device Using Optical Sensor								
30	Anu p M Upa dhya ya	Photonic MEMS Sensor for Biomedical Applications	NIL	NIL	NIL	Inernati onal	2023	978100 333168 1	The Oxford College of Engineering	Apple Academi c Press	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003331681-3/photonic-mems-sensor-biomedical-applications-anup-upadhyaya-preeta-sharan
31	Dr. Hem alath a NC	Mathematics in Every day life	NIL	NIL	NIL	Internat ional	2023	ISBN9 79-8- 88940- 956-4	The Oxford College of Engineering	Shineeks publicati ons	https://www.amazon.in/Mathematics-Everyday-Life-Hidden-Language-ebook/dp/B0CW1HTN2B



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5	Dr. Raghuv	Introduction to Cyber Security	Introduction to Cyber Security	NIL	-	International	2024	ISBN: 9789361328558	The Oxford College of Engineering, Bangalore	SIPH-Scientific International Publishing House	https://www.flipkart.com/text-book-introduction-cyber-security/p/itm0a5b6e7e6a61



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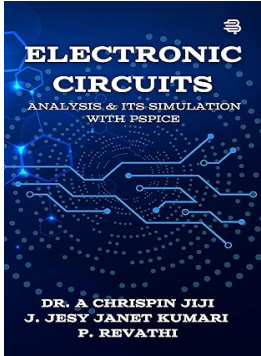
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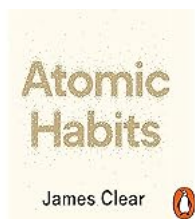


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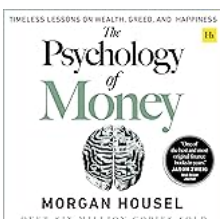
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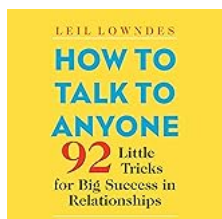
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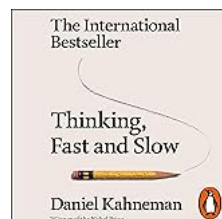
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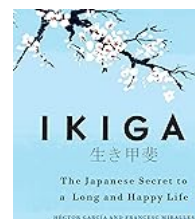
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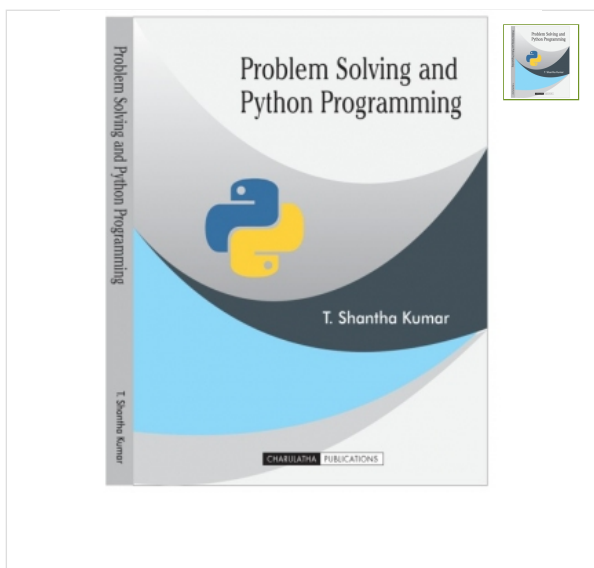
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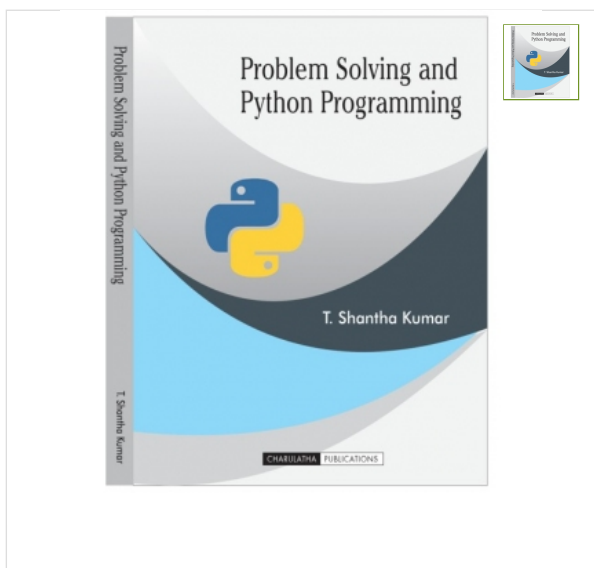
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Pervasive computation plays an integral part in WBANs. Along with pervasive methodologies, bio-sensors are available in a range of shapes and sizes, and depending on the state of the patient, multiple sensors can be inserted in, on, or around the human body to monitor, store, and relay vital signs for further investigation, judgments, and treatment. The tracking of patients' vital signs, as well as the time it takes to generate results, are essential components of the WBAN's integration into ubiquitous computing technologies. To ensure low power consumption, high precision of collected data, low latency, high efficiency, higher throughput with efficient bandwidth utilization, and synchronization with other systems and at the same time data must be stored and exchanged with care. To function successfully, a WBAN must first measure the quantity of electricity the device utilizes and then impose energy-efficient operating strategies. Current routing processes, such as the Stable Increased-Throughput Multi-hop Protocol for Link Efficiency (SIMPLE) and Mobility-supporting Adaptive Threshold-based Thermal-aware Energy-efficient Multi-hop Protocol (M-ATTEMPT), can be employed in WBANs by incorporating confidence measures into both the sensor data being monitored and the power levels needed for effective data broadcast to reach the sink. In contrast to Expected Transfers (ETX), this protocol avoids continuous communications and only forwards data of interest to the sink, resulting in minimal power usage and thereby increasing network reliability time, overall network lifetime, throughput, and end to end latency to 0.915 mw, 290 bits/s, and 250 ms, respectively.

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Every parent is curious about their child's internal and exterior development. Childhood is the first stage of a person's existence. To comprehend and better explain many elements of action, including the emotional, physical, social, intellectual, perceptual, and personality development, extensive research has been done in the past. Child development analysis is a scientific approach to evaluate growth, change, and stability. By learning more about how and why individuals develop and grow, one may better understand and meet a child's needs, allowing them to realize their full potential. Child development has a broad scope and a general purpose. However, just a few studies on early childhood development have been conducted. The project's objective is to use machine learning algorithm to forecast a child's future learning behavior and talents using a random forest algorithm and data-mining approach.

Published in: 2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)

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DOI:[10.1109/ICSSSES58299.2023.10199921](https://doi.org/10.1109/ICSSSES58299.2023.10199921)

Conference: 2023 International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES)

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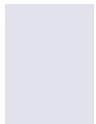
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Published in: 2023 10th International Conference on Computing for Sustainable Global Development (INDIACom)

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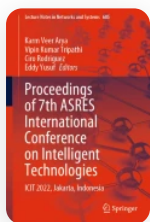


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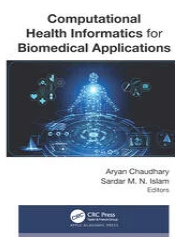
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


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


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Published in: 2023 10th International Conference on Computing for Sustainable Global Development (INDIACom)

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This study presents a novel photonic crystal (PC) pressure sensor design and three-dimensional (3D) modeling and simulation for three different structures. A 2D PC slab based on silicon is used to implement the device on a SiO₂ substrate. Using Ansys Workbench and the Rsoft Optical tool, strain/stress simulations, as well as spectrum simulations, are carried out. In this study, the deformation of various structures, including rectangular, circular, and square diaphragms, as well as variations in refractive index are taken into account when calculating the sensitivity of the suggested pressure sensor. The numerical findings demonstrate that when pressure is applied, the refractive index fluctuations increase the transmission spectrum's resonant wavelength while the deformation factor decreases it. It has been demonstrated that there is a linear relationship between the applied pressure and the intended micro-resonant cavity's wavelength. The square diaphragm has shown maximum sensitivity compared to other structures. For the minimum detectable applied pressure of 0.5 Pa, the simulation result shows that for the three types of datagrams rectangle, square, and circular it is found that there is a distinct shift in wavelength. For the circular diaphragm's shift in wavelength is 742 μm , whereas the rectangle and square observed shift in wavelength is 956 μm and 1016 μm respectively. This can be applied in biomedical applications. The proposed sensor system has shown feasibility for future fabrication.

Published in: 2023 10th International Conference on Computing for Sustainable Global Development (INDIACom)

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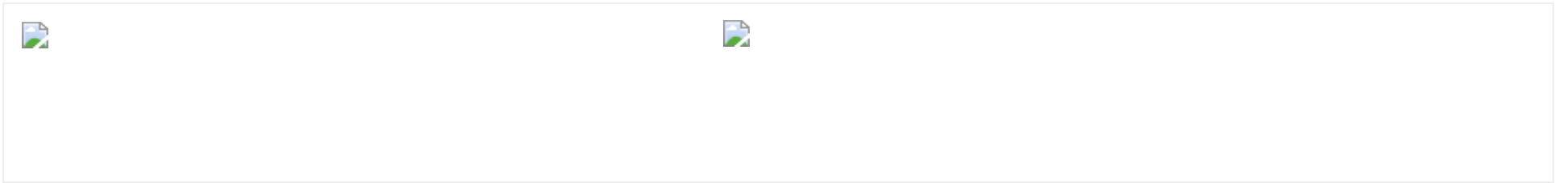
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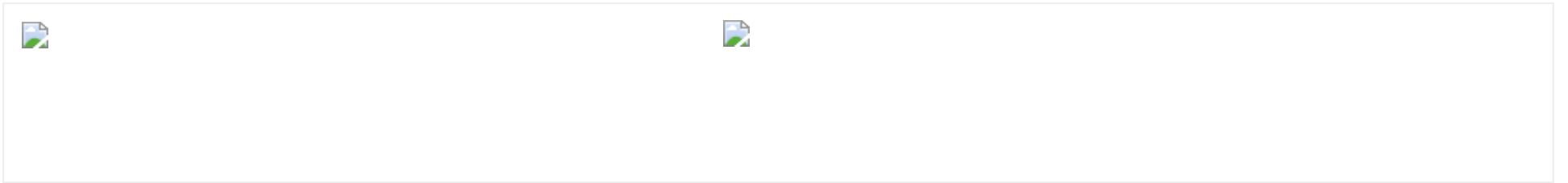
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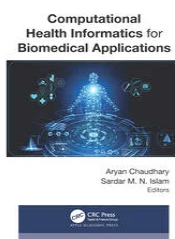
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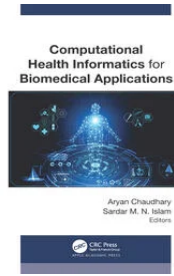
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V. Vijaya Kumari

Advances and Challenges in Science and Technology Vol. 9, 30 November 2023, Page 139-152

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Facial recognition is a complex multidimensional structure that demands sophisticated computing techniques for authentication purpose. In this paper, we introduce the Integral Normalized Gradient Image (INGI) algorithm with various normalizing stages. The system comprises a novel illumination insensitive preprocessing method, a hybrid Fourier based feature extraction and matching process. The Pre-processing method is grounded in the analysis of the facial imaging model, considering intrinsic and extrinsic factors of the human face. Feature extraction encompasses hybrid Fourier features extracted from different frequency bands and multiple face models. By deriving Fourier features from three Fourier domains and three distinct frequency bandwidths, we acquired additional complementary features. These features are individually classified using Principal Component and Linear Discriminant Analysis (PCLDA). This approach enables in analyzing a face image from the various viewpoints for identity recognition. Furthermore, we propose multiple face models based on different eye positions with a same image size. This contributes significantly to enhancing the performance of the proposed system. Recognition is achieved through Euclidean Distance and Neural Network based classifier, resulting in a recognition accuracy of approximately 89.23% for the Euclidean

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A new multilevel cascaded boost converter (MCBC) with H-bridge inverter circuit for a single DC source is suggested in this chapter. The suggested technique consists of two stages: MCBC consists of a single DC source is the first stage that produces a multilevel DC output, and the second stage consists of an H-bridge inverter that inverts multilevel DC to multilevel AC at the desired frequency. This kind of MCBC DC–DC converter not only reduces the number of DC sources but also enhances the high voltage gain. These causes reduce the then inverter space required by increasing the number of capacitors and diodes in the DC to DC converter. This kind of topology reduces the number of switches when compared with the conventional topology. For the suggested design is compared to comparable topologies in the current literature. The simulation results are represented using MATLAB/Simulink, and the suggested MCBC fed inverter operation is verified through hardware also.

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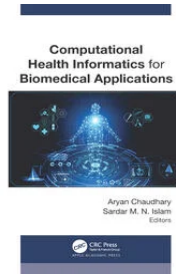
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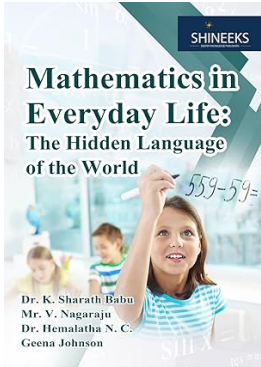
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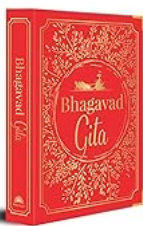


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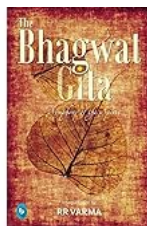
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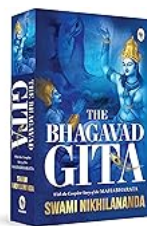
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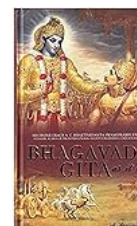
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Keywords: Neutrosophic R-closed, Neutrosophic g-open, Neutrosophic R_g closure

Area/Stream: Contemporary Mathematics & Applications / Algebra and its applications / Others

Published in: IIP Series

Volume: 3, **Month:** May, **Year:** 2024

Page No.: 67-74

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This paper introduces the idea of neutrosophic R_g closed (Regular Generalised Closed) sets, which are new neutrosophic closed sets in topological spaces. Additionally, some of its connections to other neutrosophic closed sets that already exist have been analysed, and some of their characteristics have been examined.

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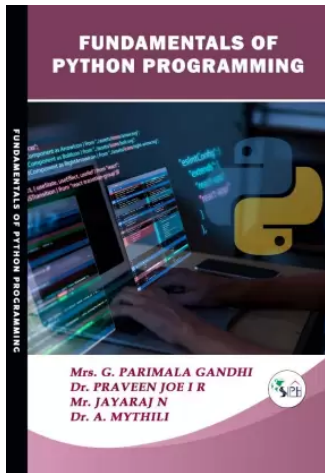
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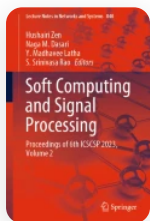
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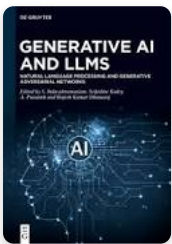
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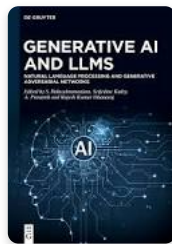
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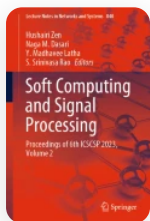
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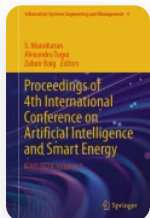
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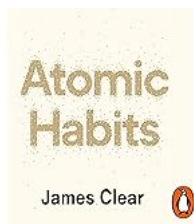
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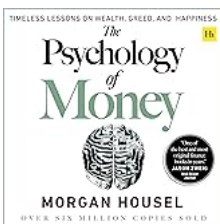
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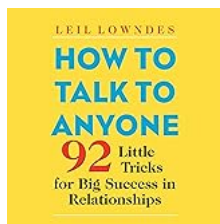
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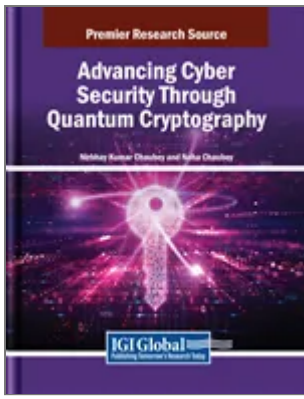
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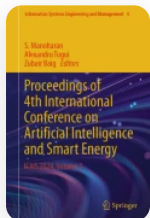
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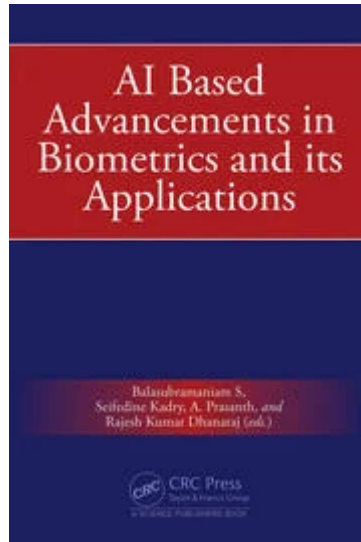
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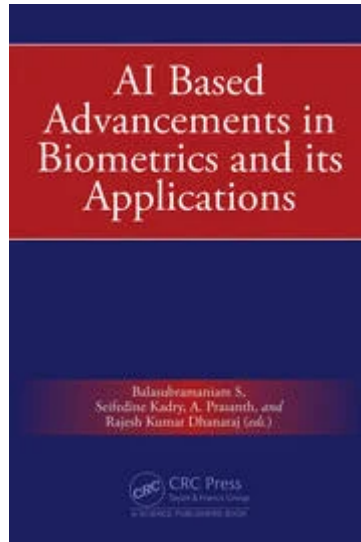
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Photonic Sensors for Biomedical Applications

Editors: Preeta Sharan, PhD
Ranjith B. Gowda, PhD
Aryan Chaudhary, PhD

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Photonics is among the most promising areas for innovations in science and technology in today's rapidly changing world, especially in the field of medicine. This new book, **Photonic Sensors for Biomedical Applications**, provides an overview of a wide range of new and innovative technologies and current applications of photonic sensors for biomedical applications. It covers many areas such as biosensors, surface plasmon resonance (SPR) sensors, one- and two-dimensional photonic crystals for sensing and detection applications, muscle strength monitoring using optical sensors, glucose sensing, AI in photonics, and many more.

The book first provides an overview of the basic elements that make up the photonic sensors, starting from the principles of light-matter interaction to the complexities surrounding optical waveguides. The authors then delve into the richest part of the field of sensors: biosensors that are made for detecting and measuring certain biochemical substances.

The photonic sensors discussed include one-dimensional photonic crystal sensors, versatile fiber Bragg gratings sensors, and highly sensitive surface plasmon resonance sensors. The exciting realm of MEMS optical sensors that illustrate the union of miniaturization and photonics in sensing technology is also covered, along with case studies. The authors also take us through using artificial intelligence with photonics sensors that help improve data analysis, pattern recognition, and decision-making.

Key features:

- Emphasizes the significant role that photonic sensors play for monitoring and detecting various types of targets for medical applications
- Provides details on the simulation methods used
- Discusses sensor design using MEMS, photonic crystals, and fibers
- Explores the integration of AI with optical sensors
- Covers optimization of the structure to increase the sensor performance parameters

This volume will be an enlightening resource for academics, engineers, faculty, and students and all those interested in the amazing world of photonic sensors.

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Theory and Applications of Engineering Research

Vol. 8

Edited by Prof. Rachid Masrour

Survey on Timing Error Detection and Correction Methods for Fir Filter Applications

V. P. Krishnammal ; V. Vijayakumari

Theory and Applications of Engineering Research Vol. 8, 15 March 2024, Page 68-78

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This paper presents the literature review on the various timing error analysis techniques involved in attaining power reduction in several computing applications, specifically for digital signal processing. FIR filters are widely used because they have linear phase characteristics, guarantee stability and are easy to implement with multipliers, adders and delay elements. The development of a high-performance FIR filter is crucial in order to satisfy the demands of various applications, including real-time, low power, low cost, and compact space. Using a razor flip-flop to scale voltage is a clever way to get rid of the supply voltage margin. The technique of Dynamic Voltage Scaling (DVS) in conjunction with Razor is employed to identify timing issues on the Critical Path. In DSP based applications, image compression and video compression are based on error tolerant; if there are errors in the intermediate outputs it will not form substantial reduction in final output quality. In this paper various Razor approach to Dynamic voltage scaling and Razor Flip-flops in filtering applications are discussed and extensive survey on features of FIR Filter design was reported. In this paper, various types of timing error detection and correction method is discussed to achieve low power consumption, less area, high speed and high throughput. Dynamic Voltage Scaling can be implemented for filter application.

Keywords: Dynamic voltage scaling (DVS); finite impulse response (FIR) filter; razor flip-flop; multipliers



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Because of their high torque, high power density, and appropriate speed range, brushless DC (BLDC) motors are the top choice for lightweight electric vehicles. The application's goal is to use a Hall position sensor to build a speed-closed loop BLDC driver. The Enhanced Exploration of Aquila optimized control for speed in brushless DC motor is presented in this study as a new conceptual upgrade of Aquila optimization. In this study we employ and optimization-driven methodology to fine tune both the PI speed and voltage controllers, where the objective function is centered on minimizing errors. We evaluate the performance of our approach in contrast to a system utilizing AO optimization. When compared to the existing optimization of the PI controller, MATLAB simulation results reveal that the suggested optimized controller is more effective in the time domain performance.

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Dr. Anup M Upadhyaya



Assistant professor, Dept. of Mechanical Engineering, The Oxford College of Engineering.,
Bommanahalli, Karnataka, India

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MODELLING AND SIMULATION OF REFRACTIVE INDEX-BASED FBG SENSOR FOR THE DETECTION OF BLOOD, ADRENAL, CERVICAL, BREAST AND SKIN CANCERS.

*Vincent raj I¹, dr. N. Srinivasan², dr. Preeta sharan³,
dr. Anup m upadhyaya⁴*

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The Oxford College Of Engineering, Bangalore

Author E-mail:josephvincent2002lp@gmail.com

Abstract

Cancer cell detection is critical to early diagnosis and treatment, aiming to improve patient outcomes through timely interventions. One promising approach involves using Fiber Bragg Grating (FBG) sensors due to their high sensitivity, biocompatibility, and ability to operate in real-time. Due to the blood's refractive index, the wavelength shift in an FBG sensor varies, leading to a change in the effective refractive index. This occurs because the interaction between the FBG sensor and the surrounding medium, like blood, alters the light propagation within the fiber. The shift in the reflected wavelength corresponds to changes in the effective refractive index, which can be used to detect cancer-related anomalies in the blood. However, the proposed grating structure provides a wavelength shift between 1.43184 and 1.47500 with an effective refractive Index between 1.360015 and 1.401017. Besides all wavelength shift and effective refractive Index have been proposed for Blood, cervical, Adrenal, Breast, and Skin cancers. The wavelength vs effective refractive index relationship for various cancerous cells has been established.

Keywords: FBG, Fibre Optics, Refractive Index, Resonant Wavelength Shift, Cancerous Cell.

ARTIFICIAL INTELLIGENCE DRIVEN TILT SENSOR BASED SMART DRINKING DEVICE FOR STROKE SURVIVORS

Preeta Sharan¹, Anup M Upadhyaya¹, R Vasanthan²

¹The Oxford College of Engineering, Bengaluru, Karnataka, India

²The Oxford College of Physiotherapy, Bengaluru, Karnataka, India

ABSTRACT

The proposed work introduces a tilt sensor device designed to monitor glass orientation during drinking activities in stroke survivors. Phase 1 of the study assessed the device's reliability in 96 normal individuals, achieving a correlation coefficient (r) of 0.99. In Phase 2, 96 stroke survivors were divided into six subgroups based on specific tilt orientations of the glass during activity. The device's concurrent validity, measured by Pearson's correlation, was 0.78 compared to motion analysis data from KINOVEA. Intraclass correlation (ICC) analysis demonstrated high agreement of 0.99 between the actual angle readings and the measurement angle from each trial. Results indicated that the device significantly reduced orientation range from 2.31 degrees without feedback to 0.85 degrees with feedback, highlighting its effectiveness in providing real-time feedback during drinking tasks. Additionally, the test-retest reliability (interclass correlation) was 0.99, supporting the device's consistency over time. Further work will involve the path for development of an AI-driven app using SQL files from data collected from stroke survivors, aiming to provide personalized rehabilitation strategies. The developed tilt sensor device shows promise as a reliable tool for monitoring glass orientation during drinking activities in stroke survivors, with potential implications for enhancing rehabilitation outcomes in this population.

Keywords – Tilt sensor, Smart Glass, Stroke, Kinovea, IoT, Artificial Intelligence

1. INTRODUCTION

Rehabilitation after a stroke is crucial for restoring motor and cognitive functions. Post stroke, various muscle deficit functions and muscle weakness, spasticity and different problems are observed. However, stroke monitoring and rehabilitation are expensive, requiring costly infrastructures and extensive medical staff involvement over prolonged periods [1]. Upper extremity dysfunction is a common challenge for stroke survivors, affecting their ability to perform daily tasks. Acute paresis of the hand or upper limb affects up to 87% of stroke patients, with 40-80% experiencing insufficient restoration of function. This

underscores the need for effective rehabilitation strategies and assistive devices to improve independence and quality of life post-stroke [2]. Research indicates that stroke patients often encounter difficulties using everyday objects like cups, glasses, forks, and pens. Specifically, they struggle with maintaining the vertical orientation of handheld objects, particularly during transferring them to or from a table. These challenges stem from factors such as muscle weakness, coordination issues, and sensory deficits resulting from the stroke [3].

Presently, there are no standardized scales available for evaluating drinking task performance. A review of existing tools and smart objects that track the positioning of the glass during drinking activity in stroke survivors has been conducted as part of the literature review. However, no tool or device offers specific feedback on the orientation of the glass during drinking. Previous efforts have been made to develop a smart cup capable of monitoring the arm and hand activity of stroke patients while they drink. This cup would detect the amount of liquid in the cup, the force used to grip it, its orientation, and any tremors [4]. In other context Roby-Brami et al., conducted a study to quantify hand orientation and arm joint rotations during unconstrained reaching movements in healthy and hemiparetic individuals. Four electromagnetic sensors were used to measure hand orientation and compute wrist, elbow and shoulder joint angles. Hand azimuth is correlated to arm movement direction in both healthy and hemiparetic individuals [5]. Timmermans A A et al. conducted a study to find the skill preference of person with stroke regarding arm-hand training and examines the relationship between the use of patients affected arm and their training preferences. A list of 10 most preferred skills were found and analyzed between a group of sub-acute and chronic stroke population. They concluded that patient preferences related mostly to task involving 'manipulation in combination with positioning' and 'manipulation' which is more similar to the drinking task that involves grasping and manipulating the cup to the mouth with maintaining the stability of the cup position to avoid water spillage [6]. Nayeem et al., presented the "MAGIC TABLE," an uniquely designed tool that records the



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Photonic Sensors for Biomedical Applications

Editors: Preeta Sharan, PhD
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Silver Nanoparticles for Drug Delivery

2024, Pages 1-38

Chapter 1 - History, introduction, and physicochemical properties of silver nanoparticles

Chitrabanu Chikkanayakanahalli Paramesh¹, Amulya Giridasappa^{1,2}, Ananda Kumar Channapillekoppalu Siddegowda¹, Dinesh Rangappa¹, Prasanna Doddakunche Shivaramu¹

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Abstract

Silver is one of the nontoxic elements known to mankind from the ancient period. This chapter gives a brief account of the ancient history of silver and its uses in a variety of forms from ancient times. The discovery of silver nanoparticles and their physicochemical properties of silver nanoparticles related to size, and shape-dependent properties, the surface functionalization of silver nanoparticles, and their chemical properties are explained in this chapter. Application of silver nanoparticles in various fields such as environmental protection and water remediation, food processing and packaging, photocatalytic applications, photovoltaic activity, and applications, as catalysts in dye degradation, monitoring heavy metals, in the textile industry, battery, supercapacitor applications, and agriculture field are explained. Biomedical applications of silver nanoparticles in cardiovascular implants, catheters, wound dressings, orthopedic and orthodontic implants and fixations, cosmetics, dentistry, tissue engineering, protein delivery, vaccines, and adjuvants are briefed along with their antimicrobial, antihelmintic, and anticancer are also briefed in this chapter.



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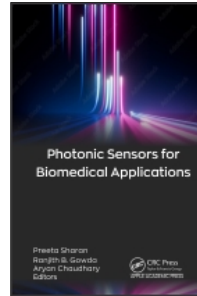
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The book first provides an overview of the basic elements that make up the photonic sensors, starting from the principles of light-matter interaction to the complexities surrounding optical waveguides. The authors then delve into the richest part of the field of sensors: biosensors that are made for detecting and measuring certain biochemical substances.

The photonic sensors discussed include one-dimensional photonic crystal sensors, versatile fiber Bragg gratings sensors, and highly sensitive surface plasmon resonance sensors. The exciting realm of MEMS optical sensors that illustrate the union of miniaturization and photonics in sensing technology is also covered, along with case studies. The authors also take us through using artificial intelligence with photonics sensors that help improve data analysis, pattern recognition, and decision-making.

Key features:

- Emphasizes the significant role that photonic sensors play for monitoring and detecting various types of targets for medical applications
- Provides details on the simulation methods used
- Discusses sensor design using MEMS, photonic crystals, and fibers
- Explores the integration of AI with optical sensors
- Covers optimization of the structure to increase the sensor performance parameters

This volume will be an enlightening resource for academics, engineers, faculty, and students and all those interested in the amazing world of photonic sensors.

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Preface

- 1. Photonics: An Overview**
Hemanth Kumar Jawahar and Ciro Rodriguez
- 2. Fundamental Concept of Biosensors**
H. N. Gayatri and Anup M. Upadhyaya
- 3. Biomedical Photonic Sensors: Enhancing Healthcare, Medical Diagnosis, Monitoring, and Treatments**
Bhupinder Singh and Jason Levy
- 4. 2D Photonic Crystal Biosensors for Blood Infection Detection and Case Studies**
Vishalatchi S. and Ranjith B. Gowda



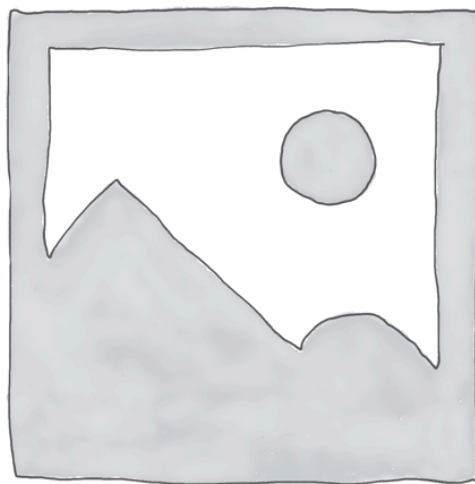
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Abstract:

This paper introduces the idea of neutrosophic R_g closed (Regular Generalised Closed) sets, which are new neutrosophic closed sets in topological spaces. Additionally, some of its connections to other neutrosophic closed sets that already exist have been analysed, and some of their characteristics have been examined.

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Book Name: Futuristic Trends in Physical Sciences Volume 3 Book 3

Authors: Dr R Poornima, Dr. C. Gayathri, Dr. P. Vasanthi, Dr. M. Jeyachitra

Keywords: ISO seven-layer network model are used to explain the structure of the Internet.

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Abstract:

A common set of protocols is used by the computers that make up the Internet to communicate with one another. The Internet has developed into a significant communication tool that enables people to engage regardless of their location or distance from one another thanks to the millions of computers that are currently connected to it. A collection of technologies, from browsers to network protocols, are related to the Internet and were created to facilitate its use. An outline of network standards and the ISO seven-layer network model are used to explain the structure of the Internet. Next, TCP/IP is explained, along with how packets are routed via routers and how Internet addressing is used. This results in an explanation of the Hypertext Transfer Protocol (HTTP) and the World Wide Web (WWW). After that, the use of Internet technology is discussed along with how the Internet is expanding in terms of both size and usage as well as potential future applications.

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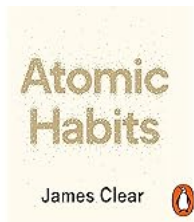
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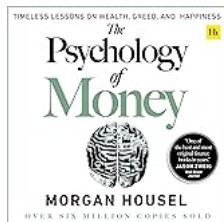
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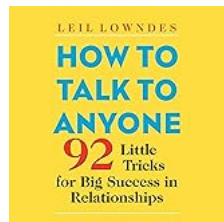
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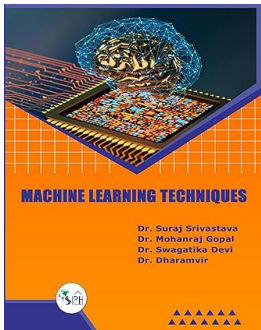
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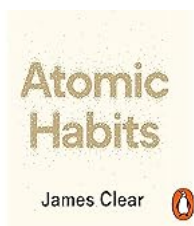


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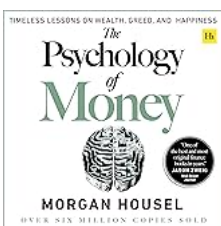
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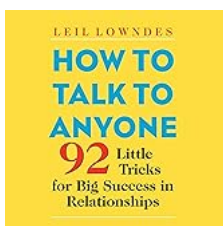
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