Academic Research - Journal papers published – 2023-24

Proof No.	Title of the Paper	Author(s)	Name of the Journal	Publisher	Volume / Issue / Year	Indexing	Quartile	DOI / Link
J-01	Experimental Investigation of Dual mode Antenna using Characteristic Mode Analysis with Enhanced Directivity for GSM / 5G Applications	Sathishkumar N, Satheeshkumar Palanisamy,, Osamah Ibrahim Khalaf et al.	Heliyon	Elsevier (Cell Press)	June 2024	SCI / SCIE / WoS	Q1	sciencedirect.com/science/article/pii/
J-02	Hybrid Clustering Approach (SG-MFOA) using Multipath Cross-Layer Design in MANET Network	B. Jaishankar,Bharathi Gururaj,A. Muruganandham &G. Nagarajan	IETE Journal of Research	Taylor & Francis	June 2024	SCI / SCIE / WoS	Q2	tandfonline.com/doi/abs/10.1080/037720
J-03	Investigation on Six Element Dipole Array Antenna for ISM Band Wireless Communication Applications	K.C. Rajarajeshwari , N. Nithiyameenatchi, S. Priyadharsini et al.	Journal of Nano- and Electronic Physics	Sumy State University	Vol. 16, No. 3, 03013, published online 28 June 2024	Scopus	Q4	essuir.sumdu.edu.ua/bitstream-download
J-04	Review of Next-Generation Wireless Devices with Self-Energy Harvesting for Sustainability Improvement	James Deva Koresh Hezekiah, Karnam Chandrakumar Ramya et al.	Energies	MDPI	Vol. 16, 7 & 2023	SCI / SCIE / WoS	Q1	doi.org/10.3390/en16135174

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J-05	Energy Efficiency in Wireless Networks	Rajagopal Maheswar, Murugan Kathirvelu, Kuppusamy Mohanasundaram	Energies	MDPI	Vol. 17 / Issue 2 / pp. 417 / 2024-01-15	SCI / SCIE / WoS	Q1	doi.org/10.3390/en17020417
J-06	Nature-Inspired Energy Enhancement Technique for Wireless Sensor Networks	James Deva Koresh Hezekiah, Karnam Chandrakumar Ramya, Mercy Paul Selvan et al.	Energies	MDPI	Vol. 16 / Issue 20 / pp. 7021 / 2023-10-10	SCI / SCIE / WoS	Q1	doi.org/10.3390/en16207021
J-07	Mapping of groundwater availability in dry areas of rural and urban regions in India using IOT assisted deep learning classification model	Senthilkumar S, A. Basi Reddy, Anna Alphy, Jayaraj Velusamy, Indra J et al.	Groundwater for Sustainable Development	Elsevier	Vol.25, 5 & 2024	Scopus	Q1	sciencedirect.com/science/article/abs/
J-08	Sustainable groundwater development using semi-supervised learning and community-led total forestry and pasture approach	Uma Maheswari S, Anna Alphy, Ganeshkumar Deivasikamani, U. Prakash et al.	Groundwater for Sustainable Development	Elsevier	Vol.25, 5 & 2024	Scopus	Q1	sciencedirect.com/science/article/abs/

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J-09	Design and performance analysis of an L-shaped radiator and defected ground antenna for enhancing wireless connectivity in brain implants	Anupma Gupta, Vipan Kumar, Mohammed H. Alsharif, Peerapong Uthansakul et al.	Heliyon	Elsevier (Cell Press)	Vol. 10, 2 & 2024	Scopus	Q1	sciencedirect.com/science/article/pii/
J-10	Partial discharge based recognition of water droplets location in high voltage insulator using convolutional neural network - Bacterial foraging algorithm based optimized machine learning classifier	L. Kalaivani, R.V. Maheswari, B. Vigneshwaran, Alagar Karthick et al.	Measurement	Elsevier	Vol. 221, 9 & 2023	Scopus	Q1	sciencedirect.com/science/article/abs/
J-11	A highly sensitive refractive index based etched optical fiber sensor for detection of human sperm	Lokendra Singh, Yesudasu Vasimalla, Vigneswaran Dhasarathan, Julia S. Skibina et al.	Optics and Lasers in Engineering	Elsevier	Vol. 169, 7 & 2023	SCI / SCIE / WoS	Q1	doi.org/10.1016/j.optlaseng.2023.10772
J-12	Nano-Engineered HfO2-Au photonic sensor for ultra-sensitive refractive index detection	Bibhatsu Kuiri, Aloke Kumar Pathak, Amlan Das, Binoy Das et al.	Results in Physics	Elsevier	April 2024	SCI / SCIE / WoS	Q1	sciencedirect.com/science/article/pii/

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J-13	Optimal transfer learning based nutrient deficiency classification model in ridge gourd (Luffa acutangula)	Finney Daniel Shadrach, Gunavathi Kandasamy, S. Neelakandan & T. Bheema Lingaiah	Scientific Reports	Nature Portfolio (Springer Nature)	Vol. 13, 8 & 2023	SCI / SCIE / WoS	Q1	nature.com/articles/s41598-023-41120-6
J-14	Defected ground structure-based wideband circularly polarized 4-port MIMO antenna for future Wi-Fi 6E applications	Basma M. Yousef, Allam M. Ameen, Arpan Desai, Heng-Tung Hsu et al.	AEU – Int. J. of Electronics and Communications	Elsevier	Vol. 170, 7 & 2023	SCI / SCIE / WoS	Q2	doi.org/10.1016/j.aeue.2023.154815
J-15	Deep volcanic residual U-Net for nodal metastasis (Nmet) identification from lung cancer	M. Ramkumar, K. Kalirajan, U. Pavan Kumar & P. Surya	Biomedical Engineering Letters	Springer	10 & 2023	SCI / SCIE / WoS	Q2	link.springer.com/article/10.1007/s135
J-16	An effective autism spectrum disorder screening method using machine learning classification techniques	Jaishankar Balasubramanian, Bharathi Gururaj, Nandam Gayatri	Concurrency and Computation: Practice and Experience	Wiley	10 & 2023	SCI / SCIE / WoS	Q2	onlinelibrary.wiley.com/doi/10.1002/cp

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J-17	Finite impulse response design based on two-level transpose Vedic multiplier for medical image noise reduction	Joghee Prasad, Arun Sekar Rajasekaran, J. Ajayan, Kambatty Bojan Gurumoorthy	ETRI Journal	Wiley / ETRI	2 & 2024	Scopus	Q2	onlinelibrary.wiley.com/doi/full/10.42
J-18	Deep recurrent learning based qualified sequence segment analytical model (QS2AM) for infectious disease detection using CT images	S. Suganyadevi & V. Seethalakshmi	Evolving Systems	Springer	12 & 2023	SCI / SCIE / WoS	Q2	doi.org/10.1007/s12530-023-09554-5
J-19	An Artificial Neural Network Autoencoder for Insider Cyber Security Threat Detection	Karthikeyan Saminathan, Sai Tharun Reddy Mulka, Sangeetha Damodharan et al.	Future Internet	MDPI	Vol. 15, 11 & 2023	SCI / SCIE / WoS	Q2	mdpi.com/1999-5903/15/12/373
J-20	A novel epilepsy seizure prediction model using deep learning and classification	B. Jaishankar, Ashwini A.M., Vidyabharathi D., L. Raja	Healthcare Analytics	Elsevier	Vol. 45, 7 & 2023	Scopus	Q2	doi.org/10.1016/j.health.2023.100222

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J-21	MIM Waveguide Based Multi-functional Plasmonic Logic Device by Phase Modulation	Lokendra Singh, Prakash Pareek, Chinmoy Saha, Vigneswaran Dharsthanan et al.	IEEE Transactions on Nanotechnology	IEEE	2024	SCI / SCIE / WoS	Q2	ieeexplore.ieee.org/document/10505019
J-22	An Investigation on Multimodal Brain Image Fusion in the Time–Frequency Domain using Wavelet Transforms	B. Venkatesan, U.S. Ragupathy	IETE Journal of Research	Taylor & Francis	11 & 2023	SCI / SCIE / WoS	Q2	tandfonline.com/doi/full/10.1080/03772
J-23	FACNN: fuzzy-based adaptive convolution neural network for classifying COVID-19 in noisy CXR images	Suganyadevi S. & Seethalakshmi V.	Medical & Biological Engineering & Computing	Springer	May 2024	SCI / SCIE / WoS	Q2	link.springer.com/article/10.1007/s115
J-24	Semi-classical physics based model in AlGaN/BGaN based ultraviolet with p-AlGaN layer sandwiched around electron-blocking layer for droop-free efficiency	Saranya G, Sivamangai N.M, Ajayan J, Sreejith S, Nithya S	Micro and Nanostructures	Elsevier	Vol. 188, 4 & 2024	Scopus	Q2	sciencedirect.com/science/article/abs/

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J-25	A Wide-Band Antenna with Circular Polarization Utilizing a U-Shaped Radiator and Parasitic Strip for Wireless Communications	Basma M. Yousef, Allam M. Ameen, Meshari D. Alanazi, Maheswar Rajagopal et al.	Micromachines	MDPI	Vol. 14 / Issue 7 / pp. 1308 / 2023-06-26	SCI / SCIE / WoS	Q2	doi.org/10.3390/mi14071308
J-26	10 Gbps CPFSK FSO system under various adverse atmospheric conditions: performance analysis	A. R. Palanisamy, K. C. Ramya, J. Roopa Jayasingh, R. Maheswar et al.	Optical and Quantum Electronics	Springer	Vol. 55, 8 & 2023	SCI / SCIE / WoS	Q2	link.springer.com/article/10.1007/s110
J-27	Polarization-insensitive and wide-angle absorber operating in the visible and near-infrared regimes	Mohamad Abou Houran, Meshari Alsharai, Muhammad Abuzar Baqir, Muhammad Saqlain et al.	Optik	Elsevier	Vol. 283, 7 & 2023	SCI / SCIE / WoS	Q2	doi.org/10.1016/j.ijleo.2023.170915

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J-28	Design and Modelling of Surface Plasmon Resonance Biosensor Employing BaTiO3 and Graphene Nanostructure for Detection of SARS-CoV-2 Virus	Alaaudeen, K.M., Manoharadas, S., Vigneswaran Dhasarathan, S. Rajeshkannan	Plasmonics	Springer	2024	SCI / SCIE / WoS	Q2	link.springer.com/article/10.1007/s114
J-29	A broadband dual-polarized antenna for 5G wireless, communication systems	N. Sathishkumar, Rajesh Natarajan, D. Divya, S. Divya	Results in Optics	Elsevier	Vol. 15, 2024	Scopus	Q2	sciencedirect.com/science/article/pii/
J-30	Cardiovascular risk detection using Harris Hawks optimization with ensemble learning model on PPG signals	R. Divya, Finney Daniel Shadrach & S. Padmaja	Signal, Image and Video Processing	Springer	Vol. 17, 7 & 2023	SCI / SCIE / WoS	Q2	link.springer.com/article/10.1007/s117
J-31	Advance Convolutional Network Architecture for MRI Data Investigation for Alzheimer's Disease Early Diagnosis	Nilanjana Pradhan, Shraddha Sagar & T. Jagadesh	SN Computer Science	Springer	Vol. 5, 1 & 2024	Scopus	Q2	link.springer.com/article/10.1007/s429

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J-32	Deep Learning Based Alzheimer Disease Diagnosis: A Comprehensive Review	S. Suganyadevi, A. Shiny Pershiya, K. Balasamy, V. Seethalakshmi et al.	SN Computer Science	Springer	Vol.5, 4 & 2024	Scopus	Q2	link.springer.com/article/10.1007/s429
J-33	Design of Asymmetrically Loaded Dual Band Antenna for ISM Band Applications	N. Sathishkumar, S. Divya, D. R. P. Rajarathnam et al.	SN Computer Science	Springer	May 2024	Scopus	Q2	link.springer.com/article/10.1007/s429
J-34	New approach for improving the performance of dual axis solar tracker with auto cleaning system	K. Gavaskar & U. S. Ragupathy	Soft Computing	Springer	Vol. 27, 8 & 2023	Scopus	Q2	link.springer.com/article/10.1007/s005
J-35	OR2M: a novel optimized resource rendering methodology for wireless networks based on virtual reality (VR) applications	V. Kiruthika, Arun Sekar Rajasekaran, K. B. Gurumoorthy & Anand Nayyar	Wireless Networks	Springer	May 2024	SCI / SCIE / WoS	Q2	link.springer.com/article/10.1007/s112
J-36	Design a novel 1-bit full adder with hybrid logic for full-swing, area-efficiency and high-speed	A. Arul & M. Kathirvelu	Analog Integrated Circuits and Signal Processing	Springer	Vol. 119, 12 & 2023	SCI / SCIE / WoS	Q3	link.springer.com/article/10.1007/s104

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J-37	QCML: Qualified Contrastive Machine Learning methodology for infectious disease diagnosis in CT images	G. Chandrika, J. Karpagam, T. Richard, Finney Daniel Shadrach, and T. Triwiyanto	JEEEMI	Poltekkes Surabaya	Vol. 6, 4 & 2024	Scopus	Q3	jeeemi.org/index.php/jeeemi/article/vi
J-38	Single Approximation Adders for Image Processing Computing and Techniques	Sowmiya L, Ramesh Shanmugavel Muthiyan, Arul Ambigapathy, Finney Daniel Shadrach	JEEEMI	Poltekkes Surabaya	July 2024	Scopus	Q3	jeeemi.org/index.php/jeeemi/article/vi
J-39	An optimized back propagation neural network for automated evaluation of health condition using sensor data	Vishwanadham Mandala, T. Senthilnathan, S. Suganyadevi, S. Gobhinath et al.	Measurement: Sensors	Elsevier	Vol. 29, 7 & 2023	Scopus	Q3	doi.org/10.1016/j.measen.2023.100846
J-40	Particle swarm optimization based artificial neural network (PSO-ANN) model for effective k-barrier count intrusion detection system in WSN	S. Lakshmi Narayanan, M. Kasiselvanathan, K.B. Gurumoorthy, V. Kiruthika	Measurement: Sensors	Elsevier	Vol. 29, 8 & 2023	Scopus	Q3	doi.org/10.1016/j.measen.2023.100875

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J-41	Develop the ubiquitous computing wearable IoT devices using, IoT-distributed framework	J. Ashok, S. Purushothaman, Purnendu Shekhar Pandey, K. Praveena, Chetan Pandey et al.	Measurement: Sensors	Elsevier	Vol. 31, 12 & 2023	Scopus	Q3	sciencedirect.com/science/article/pii/
J-42	Design of polycarbonate-based dual-band conformal frequency-selective surface for 4G/5G shielding applications	Singaram Manokaran, Ramprabhu Sivasamy, V. Harish Muthukaruppan et al.	Microwave and Optical Technology Letters	Wiley	2 & 2024	SCI / SCIE / WoS	Q3	onlinelibrary.wiley.com/doi/abs/10.100
J-43	Impact of the Preprocessing Steps in Deep Learning-Based Image Classifications	H. James Deva Koresh	National Academy Science Letters	Springer	1 & 2024	SCI / SCIE / WoS	Q3	link.springer.com/article/10.1007/s400
J-44	QoS Aware Data Congestion Control Routing in Mobile Ad Hoc Networks for Intelligent Transportations Systems	K. Muthulakshmi, K. Kalirajan, J. Jean Justus, P. Sivamala	Tehnički vjesnik – Technical Gazette	Univ. of Osijek	Vol. 31, 01 & 2024	SCI / SCIE / WoS	Q3	doi.org/10.17559/TV-20230427000582
J-45	A Mutual Energy Harvesting-induced Task Offloading Method for Wireless Sensor Networks coupled with the Internet of Things	M., Vasim Babu; K. B., Gurumoorthy; S., Allwin Devaraj	Ad Hoc & Sensor Wireless Networks	Old City Publishing	Vol. 57, 2023	Scopus	Q4	oldcitypublishing.com/journals/ahswn-h

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J-46	Secured Framework with a Hash Function-Enabled Keyword Search in Cloud Storage Services	P. Punitha, Lakshmana Kumar, S. Revathi, R. Premalatha, and R. S. Aiswarya	Int. J. of Cooperative Information Systems	World Scientific	April 2024	SCI / SCIE / WoS	Q4	worldscientific.com/doi/epdf/10.1142/S
J-47	Kidney Impairment Prediction Due to Diabetes Using Extended Ensemble Learning Machine Algorithm	Deepa Devasenapathy, Vidhya K, Anna Alphy,, Finney Daniel Shadrach et al.	Journal of Machine and Computing	AnaPub	Vol. 3, 7 & 2023	Scopus	Q4	anapub.co.ke/journals/jmc/jmc_pdf/2023
J-48	A survey on exploring the challenges and applications of wireless body area networks (WBANs)	Arun Sekar Rajasekaran, L. Sowmiya, Azees Maria, R. Kannadasan	Cyber Security and Applications	Elsevier (KeAi)	Vol. 2	Scopus	-	sciencedirect.com/science/article/pii/
J-49	A Linear Differentiation Scheme for Camouflaged Target Detection using Convolution Neural Networks	Jagadesh Sambbantham, Gomathy Balasubramanian, Rajarathnam and Mohit Tiwari	Engineering Proceedings	MDPI	Vol. 59, 2023	Scopus	-	mdpi.com/2673-4591/59/1/45

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J-50	Automated Seizure Detection Using Machine Learning Algorithm in Very Large Scale Integration	K. Sri Vijaya, B. Hari Chandana, D. Sugumar, Muralidharan J, I. Mohana Krishna et al.	IJISAE	Ismail Saritas	Vol. 12, 11 & 2023	Scopus	-	ijisae.org/index.php/IJISAE/article/vi
J-51	Pipelined and Wave Pipelined Approach Based Comparative Analysis for 16x16 Vedic Multiplier	J Prasad, M Vasim Babu, M Kasiselvanathan, K B Gurumoorthy	Indian Journal Of Science And Technology	Indian Society for Education and Environment	Vol. 17 / Issue 14 / pp. 1381-1390 / 2024-04-03	Peer reviewed	-	doi.org/10.17485/ijst/v17i14.3033
J-52	Combining Handcrafted Features and Deep Learning for Automatic Classification of Lung Cancer on CT Scans	Pallavi Deshpande, Mohammed Wasim Bhatt, Santaji Krishna Shinde et al.	Journal of Artificial Intelligence and Technology	Intelligence Science and Technology Press Inc.	2023-11-24	Peer reviewed	-	doi.org/10.37965/jait.2023.0388
J-53	A survey of Alzheimer's disease diagnosis using deep learning approaches	Suganyadevi Sellappan, Shiny Pershiya Anand, Finney Daniel Shadrach et al.	Journal of Autonomous Intelligence	Frontier Scientific	Vol. 7, 2024	Scopus	-	jai.front-sci.com/index.php/jai/articl

Academic Research - Conference papers published – 2023-24

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C-01	Research on Traditional Art Image Reconstruction Method Based on Computer Vision Analysis	M. Supriya; Kuncham Anvesh; B Muruganandham; Manasa Krishnan K; R Muthu et al.	2023 International Conference on Communication, Security and Artificial Intelligence (ICCSAI)	November 2023	Scopus	ieeexplore.ieee.org/document/10421045
C-02	An Effective Framework for Detecting Epileptic Seizures using CNN and Encrypted EEG Signals	G Pradeep; Saroj Bala; N P Satheesh; M Mahalakshmi; K Balasamy; S Suganyadevi	2023 International Conference on Sustainable Computing and Smart Systems (ICSCSS)	14-16 June 2023	Scopus	ieeexplore.ieee.org/document/10169196
C-03	Comparative Analysis on Medical Image Prediction of Breast Cancer Disease using Various Machine Learning Algorithms	Ravikumar Gurusamy; V. Rajmohan; N Sengottaiyan; P. Kalyanasundaram; S.M. Ramesh	2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC)	6-8 July 2023	Scopus	ieeexplore.ieee.org/abstract/document/
C-04	Early Detection of Sickle Cell Anaemia Among Tribal Inhabitants	M. Kathirvelu; S. Keerthana; V Keerthana; S Lakshitha; S Manikandan	2023 8th International Conference on Communication and Electronics Systems (ICCES)	1-3 June 2023	Scopus	ieeexplore.ieee.org/abstract/document/

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C-05	Multisalient Object Detection and Recognition using Deep Learning Techniques	S Suganyadevi; V Pavatharani; K Koushick; R Manimaran; A Mohammed Sameer et al.	2023 International Conference on Applied Intelligence and Sustainable Computing (ICAISC)	17th June, 2023	Scopus	ieeexplore.ieee.org/abstract/document/
C-06	Analysis of ECG Noise Cancellation and Abnormality Classification using Various Adaptive Algorithms	S M Ramesh; S Nithya; V. V. Teresa; V Uma Maheswari; M A Raja; S Krishnakumar	2023 International Conference on Applied Intelligence and Sustainable Computing (ICAISC)	17th June, 2023	Scopus	ieeexplore.ieee.org/abstract/document/
C-07	Design and Analysis of 5G Antenna with Defective Ground Structure	S. Nithya; V. Seethalakshmi; K. Jasmine; J. Dhanasekar; G. Vetrichelvi; V Remya	2023 International Conference on Applied Intelligence and Sustainable Computing (ICAISC)	17th June, 2023	Scopus	ieeexplore.ieee.org/abstract/document/
C-08	A Credit Card Fraud Identification Technique Using Support Vector Machine	K. Murugan; Angeline Felicia; B Gomathy; P.T. Saravanakumar; S.M. Ramesh et al.	2023 International Conference on Applied Intelligence and Sustainable Computing (ICAISC)	17th June, 2023	Scopus	ieeexplore.ieee.org/abstract/document/
C-09	Certain Investigation on Adders and Multipliers for Different Applications	M. Supriya; M. Kathirvelu	2023 4th International Conference on Electronics and Sustainable Communication Systems, ICESC 2023	6-8 July 2023	Scopus	doi.org/10.1109/icesc57686.2023.101937

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C-10	A Secure Authenticated Message Transfer in Vehicle to Grid Networks	L. Sowmiya; Rajasekaran Arun Sekar; Gnanasaravanan Subramaniam et al.	2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC)	6-8 July 2023	Scopus	doi.org/10.1109/icesc57686.2023.101929
C-11	Integrated Model for Covid 19 Disease Diagnosis using Deep Learning Approach	Suganyadevi S; Seethalakshmi V; Anandan P; Renu K	2023 2nd International Conference on Edge Computing and Applications (ICECAA)	19-21 July 2023	Scopus	ieeexplore.ieee.org/document/10212181
C-12	Power Effective Multiply Accumulation Configuration For Low Power Applications Using Modified Parallel Prefix Adders	T Shanmugaraja.; N Kathikeyan	2023 International Conference on Applied Intelligence and Sustainable Computing (ICAISC)	17th June, 2023	Scopus	ieeexplore.ieee.org/document/10200142
C-13	Performance Enhancement Counter with Minimal Clock Period	Anto Mamman Shane S and Muralidharan J	E3S Web of Conferences	12 July 2023	Scopus	e3s-conferences.org/articles/e3sconf/a
C-14	Machine Learning Based Automatic Leaf Diseases Detection	Prasad J, RubanKumar J, Thirumoorthi G, UdayaKeerthi V S and Santhosh S M	E3S Web of Conferences	12 July 2023	Scopus	e3s-conferences.org/articles/e3sconf/a
C-15	Era of reversible logic based quantum computing on low power applications	N. Vidhya; V. Seethalakshmi; A. Arul; J. Dhanasekar; N. Vinodhini	AIP Conference Proceedings	September 13, 2023	Scopus	pubs.aip.org/aip/acp/article-abstract/
C-16	Deep learning based Covid-19 image classification from CT and X-ray images	S. Cibichakkaravarthi; P. Thangaraj; S. Suganyadevi	AIP Conference Proceedings	September 13, 2023	Scopus	pubs.aip.org/aip/acp/article-abstract/

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C-17	Short term predictive maintenance using machine learning models	Chandraprabha Soundarrajan; Ram Nivas Duraisamy; Muralidharan Jayabalan et al.	AIP Conference Proceedings	September 13, 2023	Scopus	pubs.aip.org/aip/acp/article-abstract/
C-18	Design and Development of Embedded Controller with Wireless Sensor for Power Monitoring through Smart Interface Design Models	S M Ramesh; S Rajeshkannan; Sumit Pundir; Navdeep Dhaliwal; Sanjay Mishra et al.	2023 Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS)	September 22, 2023	Scopus	ieeexplore.ieee.org/abstract/document/
C-19	Fruits Freshness Recognition System by Manipulating Versatile Neural Networks	Sharmila A; K S Tamilselvan; Dhivya Priya E L; D Yuvaraj; Soundarya B et al.	2023 International Conference on Circuit Power and Computing Technologies (ICCPCT)	September 22, 2023	Scopus	ieeexplore.ieee.org/abstract/document/
C-20	Crime Scene Object Detection from Surveillance Video by using Tiny YOLO Algorithm	Uganya G; I. Sudha; V. Lakshmanan; Finney Daniel Shadrach; P. Muthu Krishnammal et al.	2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN)	October 4, 2023	Scopus	ieeexplore.ieee.org/document/10266136
C-21	Highly Secure Approximate Adiabatic Logic for Error Tolerant Applications	Kalirajan K; Abinaya M	2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN)	October 4, 2023	Scopus	ieeexplore.ieee.org/document/10266102

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C-22	ATM Assisting Device for Secure Transactions using GSM Technology	Kalirajan K; Suganya D N; Survesh Hari S; Sanjay K M; Vishnu Raj S	2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN)	October 4, 2023	Scopus	ieeexplore.ieee.org/document/10266147
C-23	A Comprehensive Review on Analysing of Brain Signals Using Different Clustering Methods	P Naveen; T Akilan; P Manikandan; B. Pushpavanam; C Swedheetha et al.	2023 4th International Conference on Smart Electronics and Communication (ICOSEC)	October 16, 2023	Scopus	ieeexplore.ieee.org/abstract/document/
C-24	The Design, Simulation, and Measurement of a 30 GHz Microstrip Patch Antenna for Millimeter-Wave Applications	E. Shalini; C. Saranya; S. Nithya; S. Divya; R. Vivek Krishna et al.	2023 4th International Conference on Smart Electronics and Communication (ICOSEC)	October 16, 2023	Scopus	ieeexplore.ieee.org/abstract/document/
C-25	ECG noise elimination using an FPGA version of a modified error normalized LMS adaptive filter	T. Shanmugaraja; M. Ruba; V. Sakthi Priya; T. Venkatesh; M. Supriya et al.	AIP Conf. Proc	September 13, 2023	Scopus	pubs.aip.org/aip/acp/article-abstract/
C-26	A high performance low power 2-4 decoder design with modified mixed logic	M. Kathirvelu; A. Karthika	AIP Conf. Proc	September 13, 2023	Scopus	pubs.aip.org/aip/acp/article-abstract/
C-27	Domino circuit design of a Sub-32nm wide FAN-in GATEM	M. Supriya; P. Sakthivel; S. Priyadharshini; T. Shanmugaraja; K. Murugan et al.	AIP Conf. Proc	September 13, 2023	Scopus	pubs.aip.org/aip/acp/article-abstract/

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C-28	A Novel Hybrid Approach to Smart Door Locking System based on Real Time Data Transmission	Pradeepkumar G; Rohith Bhat C; Senthilvadivu K; Latha Jothi V et al.	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)	July 6, 2023	Scopus	ieeexplore.ieee.org/document/10306404
C-29	An Extended Canberra Similarity Measure Method for Content-Based Image Retrieval	K R N Aswini; S. P. Prakash; Gobinath Ravindran; T Jagadesh; Ashitha V Naik	2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques (EASCT)	January 2024	Scopus	ieeexplore.ieee.org/document/10392995
C-30	Wireless Capsule Endoscopy Bleeding Images Classification using CNN Based Model	Gotte Ranjith Kumar; J. Jeyasudha; Ravi G; T. Jagadesh; Madhura G K	2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques (EASCT)	January 2024	Scopus	ieeexplore.ieee.org/document/10393338
C-31	Analysis of Visual Expression of Light and Color in Movies based on Wavelet Neural Network	K. Murugan; R. Mothi; Retty George; R. Esther Priya; S. Nagarathinam et al.	2023 International Conference on Communication, Security and Artificial Intelligence (ICCSAI)	February 2024	Scopus	ieeexplore.ieee.org/document/10421049
C-32	Parameter Analysis Review on Multiple Quantum Well based InGaN/GaN Light Emitting Diode	Saranya G; Sivamangai N M; Indhumathi G, Naveenkumar R; S Nithya; Archana T	2023 9th International Conference on Smart Structures and Systems (ICSSS)	January 2024	Scopus	ieeexplore.ieee.org/document/10407176

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C-33	Intrusion Detection System in Wireless Sensor Networks using Modified Recurrent Neural Network with Long Short-Term Memory	K. Ramkumar; Laith H. Alzubaidi; V Malathy; T. Venkatesh; Kruthika C G	2024 International Conference on Integrated Circuits and Communication Systems (ICICACS)	April2024	Scopus	ieeexplore.ieee.org/document/10498333
C-34	Energy-Efficient Clustering Scheme for Flying Ad-Hoc Network using a Teaching Learning Based Improving Artificial Bee Colony Optimized LEACH Protocol	L. M. I. Leo Joseph; Nijaguna G. S; Janardhana D. R; Ramy Riad Al-Fatlawy et al.	2024 International Conference on Integrated Circuits and Communication Systems (ICICACS)	April 2024	Scopus	ieeexplore.ieee.org/document/10498739
C-35	Enhancing Quality-of-Service in LoRa Low-Power Wide-Area Networks via Multi-Hop Optimized Radio Resource Management	Laith H. Jasim Alzubaidi; G Sunil; Hirald Dwaraka Praveena; N. Sathishkumar et al.	2024 International Conference on Integrated Circuits and Communication Systems (ICICACS)	2024Feb	Scopus	ieeexplore.ieee.org/document/10498522
C-36	Design and Implementation of Secured E-Voting System	Kathirvelu M; Brintha S; Darwin Balaji K; Dhivya Varthini G; Gnana Shree M	2024 International Conference on Cognitive Robotics and Intelligent Systems (ICC - ROBINS)	May 2024	Scopus	ieeexplore.ieee.org/document/10533907
C-37	Design of a Compact Dual Band Antenna for 5G and Wimax Applications	Suganyadevi S; Priyadharsini S; Raaghul Ganesh S; Ramakrishnan R; Sowmiya R et al.	2024 Third International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE)	June 2024	Scopus	ieeexplore.ieee.org/document/10548701
C-38	Design of VLSI Architecture Using AES Algorithm	J Indra; A Shiny Pershiya	2024 3rd International Conference on Artificial Intelligence For Internet of Things (AIIoT)	June 2024	Scopus	ieeexplore.ieee.org/abstract/document/

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C-39	Neem Leaf Disease Detection based on Enhanced Leaky Capacitor-Fired Neuron (LCFN) Model	Anandhi Kathiresan; Sahana Shetty; S M. Ramesh; T. Arun; Praveen Kumar R et al.	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568835
C-40	Segment-Specific Layer Detection Using Oral Radiology Image for Gingivitis Diagnosis	Anandhi Kathiresan; Saranya M D; Sri Roshini R; M.R. Mythily; R. Bhavani et al.	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568587
C-41	FPGA Realization of High-Efficient Address Generator Algorithm for WiMAX Deinterleaver	Veera Boopathy E; Kalirajan K; Mohamed Kasim S; Mugesh A; Rathish S G et al.	2024 IEEE 4th International Conference on VLSI Systems, Architecture, Technology and Applications (VLSI SATA)	June 2024	Scopus	ieeexplore.ieee.org/document/10560076

Academic Research - Books/book chapters published – 2023-24

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B-01	IoT Architectures for Textile Industry Environment	M.G.Sumithra , S.Satheesh Kumar , R.Sowmya , M.D.Saranya , G.Pradeepkumar	Woodhead Publishing India	2024	No	woodheadpublishingindia.com/BookDetail
B-02	A Survey on Homomorphic Encryption for Financial Cryptography Workout	M. Siva Sangari, K. Balasamy, Habib Hamam, S. Nithya & S. Surya	Homomorphic Encryption for Financial Cryptography Recent Inventions and Challenges	8 & 2023	Yes	link.springer.com/chapter/10.1007/978-
B-03	Challenges and Opportunities Associated with Homomorphic Encryption for Financial Cryptography	S. Finney Daniel Shadrach, A. Shiny Pershiya, A. Shirley Stevany Faryl et al.	Homomorphic Encryption for Financial Cryptography Recent Inventions and Challenges	8 & 2023	Yes	link.springer.com/chapter/10.1007/978-
B-04	Homomorphic Encryption-Based Cloud Privacy-Preserving in Remote ECG Monitoring and Surveillance	V. Seethalakshmi, S. Suganyadevi, S. Nithya et al.	Homomorphic Encryption for Financial Cryptography Recent Inventions and Challenges	8 & 2023	Yes	link.springer.com/chapter/10.1007/978-
B-05	Introduction to Homomorphic Encryption for Financial Cryptography	Rajesh Kumar Dhanaraj, S. Suganyadevi, V. Seethalakshmi & Mariya Ouaissa	Homomorphic Encryption for Financial Cryptography Recent Inventions and Challenges	8 & 2023	Yes	link.springer.com/chapter/10.1007/978-
B-06	Multivariate Cryptosystem Based on a Quadratic Equation to Eliminate the Outliers Using Homomorphic Encryption Scheme	M. Janani, R. Jeevitha, R. Jaikumar, R. Suganthi & S. Jhansi Ida	Homomorphic Encryption for Financial Cryptography Recent Inventions and Challenges	8 & 2023	Yes	link.springer.com/chapter/10.1007/978-

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B-07	A Survey on Private Keyword Sorting and Searching Homomorphic Encryption	S. Nithya, V. Seethalakshmi, G. Vetrichelvi, M. Siva Sangari & Gokul Basavaraj	Homomorphic Encryption for Financial Cryptography Recent Inventions and Challenges	8 & 2023	Yes	link.springer.com/chapter/10.1007/978-
B-08	AAL with Deep Learning to Classify the Diseases Remotely from the Image Data	A. Sharmila, E. L. Dhivya Priya, K. S. Tamilselvan & K. R. Gokul Anand	Studies in Computational Intelligence	9 & 2023	YES	link.springer.com/chapter/10.1007/978-
B-09	Internet of Things-Based Device Support for the Visually Impaired, Deaf, and Dumb People	Venugopal D,KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, COIMBATORE.	Revolutionizing Healthcare Through Artificial Intelligence and Internet of Things Applications	2023	Yes	doi.org/10.4018/978-1-6684-5422-0.ch00
B-10	Biomedical Devices Adopting Energy-Harvesting Schemes	M. Saravanan, Eswaran Parthasarathy, J. Ajayan, T. Shanmugaraja, J. Mercy et al.	Energy Harvesting Trends for Low Power Compact Electronic Devices	9 & 2023	Yes	link.springer.com/chapter/10.1007/978-
B-11	Energy Harvesting Techniques and Trends in Electronic Applications	Pavan Mehta, Anupama Gaur, Chandan Kumar, Anveshkumar Nella et al.	Energy Harvesting Trends for Low Power Compact Electronic Devices	9 & 2023	Yes	link.springer.com/chapter/10.1007/978-

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B-12	Surveillance of Robotic Boat Using Iot and Image Processing	S. Suganyadevi, D. Shamia, V. Seethalakshmi, K. Balasamy & K. Sathya	Artificial Intelligence in IoT and Cyborgization	9 & 2023	Yes	link.springer.com/chapter/10.1007/978-
B-13	Digital twins in precision agriculture monitoring using artificial intelligence	D. Shamia, S. Suganyadevi, V. Satheeswaran, K. Balasamy	Digital Twin for Smart Manufacturing	9 & 2023	Yes	sciencedirect.com/science/article/abs/
B-14	Video Surveillance-Based Intrusion Detection System in Edge Cloud Environment	Annu Sharma, Deepa Devasenapathy, M. Raja, Finney Daniel Shadrach et al.	Lecture Notes in Electrical Engineering	2024	Yes	link.springer.com/chapter/10.1007/978-
B-15	Empowering Agriculture: Blockchain's Revolution in Smart Farming	N. A. Natraj, Sundaravadivazhagan Balasubaramanian, K. B. Gurumoorthy et al.	Signals and Communication Technology - Intelligent Robots and Drones for Precision Agriculture, Springer	2024	No	link.springer.com/chapter/10.1007/978-
B-16	Securing Shared Data Based on Homomorphic Encryption Schemes	K. Renuka Devi, S. Nithyapriya, G. Pradeep, R. Menaha & S. Suganyadevi	Homomorphic Encryption for Financial Cryptography Recent Inventions and Challenges	2023	Scopus	link.springer.com/chapter/10.1007/978-

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B-17	Communication Systems	Dr. B. Jaishankar, Dr. K. Murugan, Dr. T. Manjula, Dr. T. Vandarkuzhali, Mrs. M. Mohanapriyaa	AASAN Publications, Coimbatore (ISBN 978-81-970757-9-7)	08.03.2024	Book (ISBN)	www.aasans.com
B-18	Advanced Digital Image Processing	Anandhi Kathiresan, Dr. S. Kavitha, Ms. R. Monica, Dr. C. Nandagopal, Ms. M. Supriya	AASAN Publications, Coimbatore (ISBN 978-81-971605-1-6)	21.03.2024	Book (ISBN)	www.aasans.com
B-19	Wireless Sensor Networks	Dr. K. Murugan, V. M. Kothanda Thiliban, S. Manisha Banu, Ms. M. Supriya, Mrs. G. Nithya	AASAN Publications, Coimbatore (ISBN 978-81-970757-6-6)	26.03.2024	Book (ISBN)	www.aasans.com

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