Academic Research - Journal papers published – 2024-25

Proof No.	Title of the Paper	Author(s)	Name of the Journal	Publisher	Volume / Issue / Year	Indexing	Quartile	DOI / Link
J-01	Advanced Multiplier Architecture Optimization for Accelerated Arithmetic Operations and its Integration in Wireless Sensor Network Applications	Nirmal Kumar R., Valarmathi R. S., Kalamani M.	Tehnički vjesnik – Technical Gazette	Univ. of Osijek	Vol.32, No.3,pp . 1054-1065	SCI / SCIE / WoS	Q3	hrcak.srce.hr/en/330572
J-02	Hexa-mobile net for NOMA Rayleigh fading channel estimator via Hexagonal pilot insertion	Finney Daniel Shadrach, K. Vidhya, K. Palraj, C. Chandru Vignesh et al.	Ain Shams Engineering Journal	Elsevier	Volume 16, Issue 4	SCI / SCIE / WoS	Q1	sciencedirect.com/science/article/pii/
J-03	HCO-RLF: Hybrid classification optimization using recurrent learning and fuzzy for COVID-19 detection on CT images	K. Balasamy , V. Seethalakshmi	Biomedical Signal Processing and Control	Elsevier	Volume 100, Part A, Pg1-13, 2 & 2025	SCI / SCIE / WoS	Q1	sciencedirect.com/science/article/abs/
J-04	FEMT-FL: A novel flexible energy management technique using federated learning for energy management in IoT-based distributed green computing systems	Jaikumar R,Arun Sekar Rajasekaran,, M.V. Nageswara Rao,Anand Nayyar	Computer Standards & Interfaces	Elsevier	Volume 94, 04017	SCI / SCIE / WoS	Q1	sciencedirect.com/science/article/abs/

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J-05	Improving the traffic prediction process efficiency novel cohesive model	G. Balamurugan,, K.B. Gurumoorthy,, Suganyadevi S,, Balasamy K	Computers and Electrical Engineering	Elsevier	Volume 123, Part A	SCI / SCIE / WoS	Q1	sciencedirect.com/science/article/pii/
J-06	MLAFP-XN: Leveraging neural network model for development of antifungal peptide identification tool	Md. Fahim Sultan,, Md. Shazzad Hossain Shaon,, Tasmin Karim,, Md. Mamun Ali et al.	Heliyon	Elsevier (Cell Press)	September & 2024	SCI / SCIE / WoS	Q1	scopus.com/inward/record.uri?eid=2-s2.
J-07	Revolutionizing fault detection in self-healing network via multi-serial cascaded and adaptive network	Caleb S,, John Justin Thangaraj S,, Padmapriya G,, Nandhini T J et al.	Knowledge-Based Systems	Elsevier	Volume 309	SCI / SCIE / WoS	Q1	sciencedirect.com/science/article/pii/
J-08	Multi-dimensional fuzzy, based diabetic retinopathy, detection in retinal images, through deep CNN method	Balasamy K, Suganyadevi S	Multimedia Tools and Applications	Springer	PP:1-21	SCI / SCIE / WoS	Q1	link.springer.com/article/10.1007/s110

Proof No.	Title of the Paper	Author(s)	Name of the Journal	Publisher	Volume / Issue / Year	Indexing	Quartile	DOI / Link
J-09	Refractive insensitive directional bend sensor based on specialty microstructure optical fiber with dumbbell shape core	Yanhua Luo, ,, Chaofan Zhao, , Binbin Yan, Ayyanar Natesan et al.	Optics and Laser Technology	Elsevier	Vol.180, July 2024	SCI / SCIE / WoS	Q1	scopus.com/inward/record.uri?eid=2-s2.
J-10	A super resolution generative adversarial networks and partition-based adaptive filtering technique for detect and remove flickers in digital color images	Thangavel Shanmugaraja ,Natesapillai Karthikeyan,Subburathinam Karthik et al.	PLOS ONE	PLOS	Vol.20, No.5	SCI / SCIE / WoS	Q1	journals.plos.org/plosone/article?id=1
J-11	Experimental investigation of flexible eight-port asymmetric fed MIMO antenna with narrow-super-widebandn-s characteristics for future applications including internet of things	Manish Sharma, Selvaraj Praveen Chakkravarthy , Sathishkumar Nallusamy et al.	PLOS One	PLOS	Vol. 20 / Issue 5 / pp. e0322279 / 2025-05-14	SCI / SCIE / WoS	Q1	doi.org/10.1371/journal.pone.0322279
J-12	Design of dual mode, antenna using CMA and, broadband dual-polarized, antenna for 5G networks	N Sathishkumar, SatheeshKumar Palanisamy, Rajesh Natarajan, Khmaies Ouahada et al.	Scientific Reports	Nature Portfolio (Springer Nature)	14, 1, 15553, 7 & 2024	SCI / SCIE / WoS	Q1	nature.com/articles/s41598-024-66515-x

Proof No.	Title of the Paper	Author(s)	Name of the Journal	Publisher	Volume / Issue / Year	Indexing	Quartile	DOI / Link
J-13	An improved multiclass classification of acute lymphocytic leukemia using enhanced glowworm swarm optimization	Saranya N, Kalamani, M.	Scientific Reports	Nature Portfolio (Springer Nature)	Vol.15	SCI / SCIE / WoS	Q1	pubmed.ncbi.nlm.nih.gov/40263504/
J-14	A comprehensive framework for, multi-modal hate speech detection, in social media using deep learning	R. Prabhu & V. Seethalakshmi	Scientific Reports	Nature Portfolio (Springer Nature)	Vol.15	SCI / SCIE / WoS	Q1	nature.com/articles/s41598-025-94069-z
J-15	Connected map-induced resource allocation scheme for cognitive radio network quality of service maximization	K. Saravanan, R. Jaikumar, Stalin Allwin Devaraj & Om Prakash Kumar	Scientific Reports	Nature Portfolio (Springer Nature)	Scientific Reports volume 15, Article number: 14037 (2025)	SCI / SCIE / WoS	Q1	nature.com/articles/s41598-025-98946-5
J-16	Secure channel estimation model for cognitive radio network physical layer security using two-level shared key authentication	K. Saravanan, K. B. Gurumoorthy, Allwin Devaraj Stalin & Om Prakash Kumar	Scientific Reports	Nature Portfolio (Springer Nature)	Vol. 15, Article number: 2445 (2025)	SCI / SCIE / WoS	Q1	nature.com/articles/s41598-025-86165-x

Proof No.	Title of the Paper	Author(s)	Name of the Journal	Publisher	Volume / Issue / Year	Indexing	Quartile	DOI / Link
J-17	A novel Hadamard matrix based hybrid compressive sensing technique for enhancing energy efficiency and network longevity	Balamurali S & Kathirvelu M, SatheeshKumar Palanisamy et al.	Scientific Reports	Nature Portfolio (Springer Nature)	Vol. 5937, Issue - 15	SCI / SCIE / WoS	Q1	doi.org/10.1038/s41598-025-88712-y
J-18	Variational Autoencoders for Network Lifetime Enhancement in Wireless Sensors	Boopathi Chettiagounder Sengodan,Prince Mary Stanislaus et al.	Sensors	MDPI	September & 2024	SCI / SCIE / WoS	Q1	scopus.com/inward/record.uri?eid=2-s2.
J-19	STID-Net: Optimizing Intrusion Detection in IoT with Gradient Descent	James Deva Koresh Hezekiah ,Usha Nandini Duraisamy,Kalaichelvi Nallusamy et al.	Sensors	MDPI	April & 2025	SCI / SCIE / WoS	Q1	scopus.com/inward/record.uri?eid=2-s2.
J-20	Unlocking the Potential: How Flying Taxis Will Shape the Future of Transportation	Palanichamy Naveen, Mary Posonia Antony, Balaji Venkatesalu Ramasamy et al.	Sustainability	MDPI	Vol. 16 / Issue 24 / pp. 10795 / 2024-12-10	SCI / SCIE / WoS	Q1	doi.org/10.3390/su162410795

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J-21	Optimal nonlinear Fractional-Order Proportional-Integral-Derivative controller design using a novel hybrid atom search optimization for nonlinear Continuously stirred Tank reactor	Kamalakkannan, P.E., Vinothkumar, B., Kalamani, M.	Thermal Science and Engineering Progress	Elsevier	Vol. 54, pp.102862, 9& 2024	SCI / SCIE / WoS	Q1	sciencedirect.com/science/article/abs/
J-22	On the eta- mu shadowed model for land mobile satellite channels	Stefan Panic, Arijit De, Milan Veskovic	Annals of Telecommunications	Springer	Vol. 025, no. 4, 2 & 2025	SCI / SCIE / WoS	Q2	link.springer.com/article/10.1007/s122
J-23	Synthesis, Molecular Docking of Phenolic Amides and 2, 3 Diphenylacrylamide; Active Against Acid Fast Bacteria	Kaushik Misra, Ahindra Nag, Sharmi Ganguly, Himadri Sekhar Maity et al.	ChemistrySelect	Wiley	10, 17	SCI / SCIE / WoS	Q2	chemistry-europe.onlinelibrary.wiley.c
J-24	Design and Analysis of a Highly Sensitive Terahertz Biosensor for Early Cancer Detection Using Silver Surface Plasmon Resonance Metasurfaces and Elastic Reflection Starling Murmuration Equivariant Quantum Decision Networks	K. Murugan, R. Dhivya, C. N. Sangeetha and Manjunathan Alagarsamy	ECS J. of Solid State Science and Technology	IOP / ECS	Volume 14, Number 1	SCI / SCIE / WoS	Q2	iopscience.iop.org/article/10.1149/216

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J-25	Enhanced angular sensitivity of surface plasmon resonance sensor based on Si-Ag-MXene structure for cortisol application	Rajeev Kumar, Vimal Kant Pandey, Shivam Singh & Vigneswaran Dhasarathan	European Physical Journal Plus	Springer	March & 2025	SCI / SCIE / WoS	Q2	scopus.com/inward/record.uri?eid=2-s2.
J-26	Optimizing WSN Network Lifetime With Federated, Learning–Based Routing	Jim Hawkinson S, Ramesh SM, Sundar Raj A, Gomathy B	International Journal of Communication Systems	Wiley	Online	SCI / SCIE / WoS	Q2	doi.org/10.1002/dac.6117
J-27	HPPS-Harmonized Privacy - Preserving Scheme for the Internet of Things and Edge Collaborated smart city services	Jaikumar.R,, Leena B,, Kathirvelu M,, Gurumoorthy G K	International Journal of Information Security	Springer	https://doi.org/10.1007/s10207-025-01046-8	SCI / SCIE / WoS	Q2	link.springer.com/article/10.1007/s102
J-28	An Intelligent and Trust-Enabled Farming Systems With Blockchain and Digital Twins on Mobile Edge Computing	Geetanjali Rathee, Hemraj Saini, Selvaraj Praveen Chakkravarthy et al.	International Journal of Network Management	Wiley	September & 2024	SCI / SCIE / WoS	Q2	scopus.com/inward/record.uri?eid=2-s2.

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J-29	Enhanced Facial Emotion Recognition Using Vision Transformer Models	N. Sabiyath Fatima, G. Deepika, Arun Anthonisamy, R. Jothi Chitra et al.	Journal of Electrical Engineering & Technology	Springer (KIEE)		SCI / SCIE / WoS	Q2	link.springer.com/article/10.1007/s428
J-30	An intelligent magnetic resonance imagining-based multistage Alzheimer's disease classification using swish-convolutional neural networks	Archana B,, K Kalirajan	Medical & Biological Engineering & Computing	Springer	Vol. 63,, pp: 885-899	SCI / SCIE / WoS	Q2	link.springer.com/article/10.1007/s115
J-31	Design and SAR Analysis of an AMC-Integrated Wearable Cavity-Backed SIW Antenna	Yathavi Thangavelu , Balakumaran Thangaraju ,, Rajagopal Maheswar	Micromachines	MDPI	January & 2025	SCI / SCIE / WoS	Q2	scopus.com/inward/record.uri?eid=2-s2.
J-32	Numerical investigation of non-uniform arrays of directive antennas for radiation pattern analysis using spatial modulation schemes	Slimani Chellali, Ghanem Khalida, Ghanem Farid et al.	Physica Scripta	IOP Publishing	September & 2024	SCI / SCIE / WoS	Q2	scopus.com/inward/record.uri?eid=2-s2.

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J-33	A compact square loop-based frequency selective surface for ultra-wideband applications	Singaram Manokaran, Ramprabhu Sivasamy, Nelson Iruthayanathan, Rajesh Natarajan	Physica Scripta	IOP Publishing	Vol. 100 / Issue 5 / pp. 055506 / 2025-03-20	SCI / SCIE / WoS	Q2	doi.org/10.1088/1402-4896/adc34b
J-34	Investigating the Performance Optimization, of Three-Quantum-Well High Electron Mobility, Transistor Device: Analyzing Operational, Characteristics and Gate Voltage Influence	Kuntavai Thangavel, Prasanth Arucha,my, Prasad Joghee et al.	Physica Status Solidi (a)	Wiley	Online	SCI / SCIE / WoS	Q2	onlinelibrary.wiley.com/doi/10.1002/ps
J-35	Cancer Detection Using Multi-layered Kretschmann Configuration based Refractive Index Sensor	P. Nagarajan, Salim Manoharadas, Vigneswaran Dhasarathan & S. Rajeshkannan	Plasmonics	Springer	June 2024	SCI / SCIE / WoS	Q2	link.springer.com/article/10.1007/s114

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J-36	An Effective Approach for Spectral Efficiency Improvement in Massive MIMO Network Using Hybridized Optimization Assisted Optimal Pilot-Based Vector Perturbation Precoding	Keerthana, K P, K Kalirajan	Transactions on Emerging Telecommunications Technologies	Wiley	Volume36, Issue3	SCI / SCIE / WoS	Q2	onlinelibrary.wiley.com/doi/full/10.10
J-37	Medical Image Analysis Through Deep Learning Techniques:A Comprehensive Survey	K. Balasamy, V. Seethalakshmi S. Suganyadevi	Wireless Personal Communications	Springer	Volume 137, Issue 3, pages 1685–1714, 7 & 2024	SCI / SCIE / WoS	Q2	link.springer.com/article/10.1007/s112
J-38	Power-efficient MAC unit for image processing using Dadda multiplier and approximate adder	Yogeswari Palanisamy,Kathirvelu Murugan,Mohankumar G.B,Marimuthu N et al.	Australian J. of Electrical and Electronics Engineering	Taylor & Francis	Page No; 1–13	Scopus	Q3	tandfonline.com/doi/abs/10.1080/144883
J-39	Deep Lichen-Net: Clasificación y segmentaciónautomática de líquenes en los Ghats occidentales deIndia basada en aprendizaje profundo	Amsaveni Govindasamy, Ponmurugan Ponnusamy, Punietha Prabhu, Ramesh S M	BLACPMA (Bol. Latinoam. Caribe Plantas Med. Aromát.)	MS-Editions	Volume. 24, Number. 3	SCI / SCIE / WoS	Q3	doi.org/10.37360/blacpma.25.24.3.24

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J-40	Implementation and Efficient Analysis of Preprocessing Techniques in Deep Learning for Image Classification	James Deva Koresh H	Current Medical Imaging	Bentham Science	Vol. 20, 8 & 2023	Scopus	Q3	europepmc.org/article/med/37649293
J-41	Optimising liquid level in two tank spherical interacting system with fractional order PID control via hybrid POA-RERNN approach	Kamalakkannan, P.E., Vinothkumar, B., Kalamani, M.	Int. J. of Heavy Vehicle Systems	Inderscience	Vol.32, No.2, pp 163-188, 3 & 2025	SCI / SCIE / WoS	Q3	inderscienceonline.com/doi/abs/10.1504
J-42	A Modified 2:1 Multiplexer-Based Low Power Ternary ALU for IoT Applications	S. Allwin Devaraj, D. Magdalin Mary, P. Kannan, S. Esakki Rajavel et al.	J. of Engineering Science and Technology Review	Int. Hellenic Univ.	Vol.17, No.5	Scopus	Q3	jestr.org/index.php?option=com_content
J-43	Hybrid Radix-4 SESA/SEDA Adders for Medical Image Processing	Sowmiya L, Ramesh S M, Arul A, S Finney Daniel Shadrach	JEEEMI	Poltekkes Surabaya	Vol 6, No 3	Scopus	Q3	jeeemi.org/index.php/jeeemi/article/vi

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J-44	Conjugated Pixel Grouping Scheme for COVID-19 Detection from X-Ray Images Using Adversarial Learning	G.Naga Chandrika, Rini Chowdhury, Prashant Kumar, Sangamithrai K, Glory E et al.	JEEEMI	Poltekkes Surabaya	Vol. 7, No. 1	Scopus	Q3	scopus.com/authid/detail.uri?authorId=
J-45	BCD-TransNet: Automatic breast cancer, detection and classification using transfer learning approach	Amanullakhan M, Sridhar P, Indra J , Sridevi R	Technology and Health Care	IOS Press / SAGE	-	SCI / SCIE / WoS	Q3	doi.org/10.1177/09287329241296354
J-46	Identification Of Rose Rosette Disease Using Hybrid Optimised Feature Extraction With 1d Cnn-Lstm Classifier	Dr.D.Venugopal	Journal of Environmental Protection and Ecology	SciBulCom	Vol. 25, No. 4, pp. 1231-1240, July 2024	Scopus	Q4	-
J-47	Ecosystem Services and Natural Capital Valuation Using Predictive Ecological Economics	Rao D S,, Krishnaiah G C, Murali R,, Shanmugaraja Thangavel et al.	Journal of Environmental Protection and Ecology	SciBulCom	Vol 26, I 2, B 812-E 822	Scopus	Q4	scibulcom.net/en/journal/1311-5065/iss

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J-48	Urban Environmental Footprint Monitoring Using A Blockchain-Enabled Circular Economy Framework	Ankam, Sreejyothsna ; Varaprasad, D. V. ; Indra, J.; Prabakaran, E. et al.	Journal of Environmental Protection and Ecology	SciBulCom	Vol. 26, Issue - 1, Pages: 276 - 286	Scopus	Q4	scibulcom.net/en/article/QUqQHGkohN7HP
J-49	Efficient Energy Management System Using IoT	Dr. Ramesh S M, Saravanakumar R N, Tamilkannan V, Prasanna N	South Eastern European Journal of Public Health	—	Volume XXVI, Issue-2, Pages: 3338 - 3343	Scopus	Q4	seejph.com/index.php/seejph/article/vi
J-50	Design and Implementation of Multi-Node Wireless Security and Safety Siren, System for Mid-Scale Industry	Sri Shyamnath RK, Varun Murthi S, Sri Sairam RK, Dr. S.M.Ramesh	South Eastern European Journal of Public Health	—	Volume XXVI, Issue-2, Pages: 3622 - 3631	Scopus	Q4	seejph.com/index.php/seejph/article/vi
J-51	Built-In Error Resilient FPGA Based CIC Filter Design for Satellite Communication	M. Kalamani, S. Deepthi	Applied Mechanics and Materials	Trans Tech Publications	Vol. 926 / pp. 139-149 / 2025-04-22	Peer reviewed	-	doi.org/10.4028/p-j0BBi4
J-52	Pipeline and Wave Pipeline Based Comparative Analysis for FIR - Wallace Tree Multiplier for ECG Signal Denoising	Joghee Prasad, A. Shirley Stevany Faryl, K. Rajeshwaran, G. Sekar	Applied Mechanics and Materials	Trans Tech Publications	Vol. 926 / pp. 125-137 / 2025-04-22	Peer reviewed	-	doi.org/10.4028/p-QH1D9y

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J-53	Convolutional Neural Network Based Quality Analysis of Fruits and Vegetables	G. Sekar, Benson Mansingh, Joghee Prasad, R. Nallakumar	Applied Mechanics and Materials	Trans Tech Publications	Vol. 926 / pp. 151-162 / 2025-04-22	Peer reviewed	-	doi.org/10.4028/p-rT5gTD
J-54	A Comprehensive Analysis on the Intelligent VLSI Systems Design and, Applications	T.Bhuvaneswari and M.Kathirvelu	Indian Journal of Natural Sciences	Tamil Nadu Scientific Research Org.	Vol.15 / Issue 83	SCI / SCIE / WoS	-	researchgate.net/publication/382335425
J-55	Design and Development of a Shamrock Leaf-Shaped Fractal Antenna with Integrated Filtering for WLAN/WiMAX Applications	SatheeshKumar Palanisamy, N. Sathishkumar, T. Nivethitha, N. Vijayalakshmi et al.	International Journal of Computing and Digital Systems	University of Bahrain	Vol. 18, No. 1, pp. 1-13, 2025 (accepted 22 March 2025)	Scopus	-	doi.org/10.12785/ijcds/1570998621
J-56	Early Diagnosis of Pre-Osteoarthritis by Phonoarthrography using Artificial Intelligence	M A Raja, S Jaganathan, R.Jegadeesh Kumar, M.Maheswaran, K Sivakami, S M Ramesh	Power System Technology	—	Volume 49, Issue 2,Pages: 791 - 806	Scopus	-	powertechjournal.com/index.php/journal
J-57	Contrast Enhancement of Alzheimer's MRI using Histogram Analysis	Archana B, K Kalirajan	Journal of Innovative Image Processing	IRO Journals	Volume - 5 | Issue - 4 | 379-389	Scopus	-	irojournals.com/iroiip/article/view/5/

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J-58	Federated stochastic gradient averaging ring homomorphism based learning for secure data aggregation in WSN	Saravanakumar Pichumani, T. V. P. Sundararajan, S. M. Ramesh	Scientific Reports	Springer Science and Business Media LLC	Vol. 15/Issue 1 / 28.05.2025	SCI / SCIE / WoS	-	doi.org/10.1038/s41598-025-03257-4

Academic Research - Conference papers published – 2024-25

Proof No.	Title of the Paper	Author(s)	Name of the Conference	Date	Indexing	DOI / Link
C-01	Environment Prediction System for Smart Greenhouses using IoT-based Spatial Monitoring Applications	Maheswar R; Nidhish Kumar P; Logesh N; Mohanraj M; Kishore Kumar K; Giridhar C R	Proceedings - 2024 2nd International Conference on Inventive Computing and Informatics, ICICI 2024	June 11-12, 2024	Scopus	scopus.com/inward/record.uri?eid=2-s2.
C-02	Smart Charging Slot Reservation and Utilization System for Electric Vehicles	H. James Deva Koresh; Santhoshkumar K; Samyuktha M R; Saranraj S; Viswa K	Proceedings - 2024 2nd International Conference on Inventive Computing and Informatics, ICICI 2024	June 11-12, 2024	Scopus	scopus.com/inward/record.uri?eid=2-s2.
C-03	Customized Graph-Cut Segmentation with Superpixels for Snowfall Detection on Solar Panels	V. Pavithra; B. R. Danisha; V. Divyadharshini; H. James Deva Koresh	4th International Conference on Sentiment Analysis and Deep Learning, ICSADL 2025 - Proceedings		Scopus	scopus.com/inward/record.uri?eid=2-s2.
C-04	Elderly care companion robot with smart medication and health monitoring	M. M. Aswin; S. Dharnesh; S. Jaswanthika; K. Ajay; V. Seethalakshmi; S. Nithya	AIP Conf. Proc	11.10.2024	Scopus	doi.org/10.1063/5.0236020
C-05	Smartphone controlled robotic arm for hospital pharmacy automation	V. Seethalakshmi; S. Abhiee Priethiev; K. Arun; V. Dharshana; C. Gopikrishnan	AIP Conf. Proc	11.10.2024	Scopus	doi.org/10.1063/5.0236249

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C-06	Smart hand rehabilitation glove with assistive grasping capabilities	S. Nithya; V. Seethalakshmi; S. Amrudhavarshini; K. Anandhi; R. Aswin et al.	AIP Conf. Proc	11.10.2024	Scopus	doi.org/10.1063/5.0236573
C-07	Sensor Enabled Vehicle Parking System using Blynk IoT Application	G. Sekar, P.M. Benson Mansingh ,J. Prasad ,A. Britto Manoj	IEEE explore, 5th International Conference on Smart Electronics and Communication (ICOSEC)	24.10.2024	Scopus	ieeexplore.ieee.org/document/10722225
C-08	Non Proliferative Diabetic Retinopathy using deep learning approach	A. Reethika; S. Priyadharsini; Attar Mahay Sheetal; T. Nivethitha; N. Kavitha et al.	2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)	24.06.2024 to 28.06.2024	Scopus	ieeexplore.ieee.org/document/10724075
C-09	Eco friendly smart sensor adjustment using deep reinforcement learning approach	A. Reethika; S. Lavanya; Attar Mahay Sheetal; C.N. Vanitha; S. Priyadharsini et al.	2024 2nd International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)	28.11.2024 to 29.11.2024	Scopus	ieeexplore.ieee.org/document/10912354
C-10	Behavioural Aspects of 2.5 Ghz in an Indoor Environment	Mythili, S., Chaulagain, A., Kalamani, M., Prabhakaran, V.	Lecture Notes in Networks and Systems, vol 1072, pp. 255–264, Springer	17.10.2024	Scopus	link.springer.com/chapter/10.1007/978-
C-11	Advancing Parkinson's Detection Through Intelligent Algorithms	A. Rasheedha; Lynsha Helena Pratheeba HP; S. Caroline Vinnetia et al.	2024 10th International Conference on Advanced Computing and Communication Systems (ICACCS)	14-15 March 2024	Scopus	ieeexplore.ieee.org/document/10716973

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C-12	Enhanced Performance of a Decoupling-Free High Isolation MIMO Antenna for 2.4 GHz Applications	E. Suganya, T. Prabhu, S. Palanisamy, K. B. Raja et al.	IEEE 5th International Conference on Electro-Computing Technologies for Humanity (NIGERCON), Ado Ekiti, Nigeria	26-28 November 2024	Scopus	ieeexplore.ieee.org/abstract/document/
C-13	Experimental Analysis of a 1x4 Circular Patch Multiband Array Antenna with Improved Radiation Efficiency for Wireless Communication	SatheeshKumar Palanisamy, N. Sathishkumar, Anitha VR, Nivethitha Thangavelsamy et al.	IEEE 5th International Conference on Electro-Computing Technologies for Humanity (NIGERCON), Ado Ekiti, Nigeria	26-28 November 2024	Scopus	ieeexplore.ieee.org/document/10927230
C-14	A Novel FSM-Based Hardware-Efficient, Power, and Delay Optimized Transmitter Architecture for OTFS	Ashish Ranjan Shadangi, Suvra Sekhar Das, Indrajit Chakrabarti et al.	2024 IEEE 21st India Council International Conference (INDICON)	19-21 December 2024	Scopus	ieeexplore.ieee.org/document/10958498
C-15	Machine Learning Method for Reliable Malware Detection in IoT using Opcode Category Features	S. Pooja; T. Venkatesh; A. Reethika; E. Rithanya; Vibesha T V; R. Priyadharshini	2024 2nd International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)	28-29 November 2024	Scopus	ieeexplore.ieee.org/document/10912096
C-16	An Efficient, Affordable and Reliable SMPS Battery Chargers for Automobile Industry	J. Niveditha; T. Venkatesh; A. Reethika; U. Ramya; S. Sreejaa; V. Vinothini	2024 2nd International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)	28-29 November 2024	Scopus	ieeexplore.ieee.org/document/10912110

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C-17	Artificial Intelligence Based Smart Guard for Home Automation	G K Jakir Hussain; Z Akkil Ahamed; P Arun Kumar; M S Hemanth Kumar et al.	2024 2nd International Conference on Sustainable Computing and Smart Systems (ICSCSS)	20/08/2024	Scopus	ieeexplore.ieee.org/document/10625615
C-18	Automated Defect Detection System for Automobile Accessory Manufacturing Using YOLOv5	G Rahull; D Ram Nivas; V Vinisha; S Yeshwanthkumar; B Shivasanthosh	2024 2nd International Conference on Sustainable Computing and Smart Systems (ICSCSS)	09.03.2024	Scopus	ieeexplore.ieee.org/document/10652413
C-19	Remote Respiratory Health Monitoring System	Muralidharan J; Kavya A S; Krishna T A; Negashri K; Prasanna M	2024 International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering (ICSSEECC)	09.03.2024	Scopus	ieeexplore.ieee.org/document/10649446
C-20	Design of hexagonal microstrip patch antenna	K. Dinakaran; A. Anandkumar; M. Kathirvelu; N. Lavanya; S. Vanitha; M. Indraja	AIP Conf. Proc	07.08.2024	Scopus	pubs.aip.org/aip/acp/article-abstract/
C-21	Smart posture cover	Shanmugaraja T; Amish Gurubaran K; Arjun K; Dhanasekar S; Guru Prasanth S R et al.	2023 International Conference for Technological Engineering and its Applications in Sustainable Development (ICTEASD)	01.07.2024	Scopus	ieeexplore.ieee.org/document/10584898

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C-22	Mobile-controlled smart water bodies cleanup with pollution sensing	S. Akash; K. P. Devakumar; S. S. Gokulnath; G. Gowtham; K. B. Gurumoorthy	AIP Conf. Proc	11.10.2024	Scopus	pubs.aip.org/aip/acp/article-abstract/
C-23	Temperature Variation Modelling in Mushroom Growing Hall with IAN-Bidirectional GRU Model	D. Kalpanadevi; S. Nandhini Devi; Silas Stephen D; Sunita Jadhav et al.	2024 4th International Conference on Sustainable Expert Systems (ICSES)	03.12.2024	Scopus	ieeexplore.ieee.org/document/10763227
C-24	Grid Based Reliable Routing Algorithm with Energy Efficient in Wireless Sensor Networks Using Image Processing	M.Ishwarya Niranjana; Jeya Daisy; D. RamNivas; K. Gayathree; M. Vignesh et al.	2024 5th International Conference on Communication, Computing & Industry 6.0 (C2I6)	01.12.2024	Scopus	ieeexplore.ieee.org/document/10895519
C-25	Machine Learning-based Algorithm for Type of Wood Identification	Venugopal D; Sandhiya R; Swetha S; Sredhar R; Rohit N; Finney Daniel Shadrach	International Conference on Emerging Research in Computational Science (ICERCS)	14.12.2024	Scopus	ieeexplore.ieee.org/document/10895161
C-26	A Machine Learning, Perspective for, Predicting Chronic, kidney disease	Vanathi. D, S.M. Ramesh, Sudha. K, Tamizharasu. K et al.	2024 2nd International, Conference on Sustainable, Computing and Smart Systems, (ICSCSS),IEEE	10-12 July 2024	Scopus	ieeexplore.ieee.org/document/10625341/
C-27	Prediction of Cardiac Disease, Using Naive Bayes Algorithm	S.M. Ramesh, Sengottaiyan. N, Vanathi. D, Manoja. R , Tamizharasu. K et al.	2024 2nd International, Conference on Sustainable, Computing and Smart, Systems (ICSCSS), IEEE	10-12 July 2024	Scopus	ieeexplore.ieee.org/document/10624905/

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C-28	Maximizing Throughput, and Minimizing Latency, in 5G Networks through, CatBoost Machine, Learning Models	S. Karthikeyan,, J L Mazher Iqbal, T. Manikandan, , M.D. Saranya et al.	2024 Second International, Conference on Advances, in Information Technology (ICAIT)	24-27 July 2024	Scopus	ieeexplore.ieee.org/document/10690636/
C-29	IOT Based Footstep Energy Harvesting System using Arduino	M D Saranya, , P Kavin, M Logesh, V Naveen Kutralanathan, S Praveen Kumar	2024 5th International Conference on Image Processing and Capsule Networks (ICIPCN)	3-4 July 2025	Scopus	ieeexplore.ieee.org/document/10661023/
C-30	Nano technology - Infused Azolla Manure: Improving Rice Stem Thickness in Sustainable Agriculture	Ishwarya Niranjana M, Jeya Daisy I, Saranya M D , Gayathree K et al.	Euro-Asian Conference on Sustainable Nanotechnology, Environment, & Energy (SNE2-2024)	08.11.2024	Scopus	e3s-conferences.org/articles/e3sconf/a
C-31	A Hierarchical Aggregation Network with Edge Guidance for Sturdy Medical Image Segmentation	A. Rasheedha, A. Reethika, R. Rajeshwari, R. Remya, M.Suresh Kumar et al.	2024 2nd International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)	28-29 November 2024	Scopus	ieeexplore.ieee.org/document/10912254/
C-32	Novel Analysis of Human Stress Using Adult Blood Pressure and Heart Rate Data	N Sengottaiyan ; S.M. Ramesh ; T. Marthandan ; D Vanathi ; Ravikumar Gurusamy et al.	2024 International Conference on Integrated Intelligence and Communication Systems (ICIICS)	22-23 November 2024	Scopus	ieeexplore.ieee.org/abstract/document/
C-33	Wearable Stress Monitoring Band using Context Aware Sensor Fusion Technology	D Venugopal; A.G Rakshay Kanna; R Sasiramakrishnan; S Umayal	2024 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC)	June 2024	Scopus	ieeexplore.ieee.org/abstract/document/

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C-34	Web-based Plant Leaf Disease Detection and Prescription Module	Kalamani M, Krishnamoorthi M, Hiruthik Bose G, Charan S, Hariharan A, Dhilipan S	3rd International Conference on Advancement in Computation & Computer Technologies (InCACCT)		Scopus	ieeexplore.ieee.org/document/11011318
C-35	High-Efficiency Compact CP Antenna for Ku-Band Operation	Nithya S; Monika S; Pooja S; Sreejaa S; Aswin S	2025 5th International Conference on Expert Clouds and Applications (ICOECA)	06-07 March 2025	Scopus	ieeexplore.ieee.org/document/11114004/
C-36	BERT-Based Deep Learning Models for Enhanced Object Detection in Images	J L Mazher Iqbal, T. Manikandan, K.S. Tamilselvan, A. Muruganandham et al.	2024 Second International Conference on Advances in Information Technology (ICAIT)	pp. 1-6 / 2024-07-24	IEEE Xplore	doi.org/10.1109/ICAIT61638.2024.106907
C-37	Design of Parallel Prefix Adder	T. Mani, M. Kathirvelu, A. Harishkumar, S. Praveen, N. Selvakumar, M. Dhanushiya	Engineering Headway	Vol. 16 / pp. 49-56 / 2025-01-23	Scopus	doi.org/10.4028/p-N2Vc6o
C-38	Design of Wearable Textile Antenna for Medical and Wireless Application	A. Anand Kumar, M. Kathirvelu, C. Bharathiraja, G. Guruprasath et al.	Engineering Headway	Vol. 16 / pp. 79-85 / 2025-01-23	Scopus	doi.org/10.4028/p-oAkL4Q

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C-39	Performance Evaluation of Precise/Approximate Multipliers for Filter Applications	Yenimireddy Sandhya, Arun Sekar Rajasekaran, Aluvoju Vivek, J. Prasad et al.	2025 Fifth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)	pp. 1-6 / 2025-01-09	IEEE Xplore	doi.org/10.1109/ICAECT63952.2025.10958
C-40	IoT based Environment Monitoring in Industries for Employee Safety	Siva Pradeep P; Kalirajan K; Sugin M; Thirukkumaran R; Tharaneesh C S	2024 International Conference on Inventive Computation Technologies (ICICT)	June 2024	Scopus	ieeexplore.ieee.org/abstract/document/
C-41	IoT based Elbow Joint Rehabilitation Monitoring System	James Deva Koresh H; Anand Karthick S; Gokul Prakash G; Gokulnath E; Ashwin S	2024 International Conference on Inventive Computation Technologies (ICICT)	June 2024	Scopus	ieeexplore.ieee.org/abstract/document/
C-42	Wireless Electric Vehicle Charging System	Balamurali S; Jenith Kanna; Mithun Roshun R; Naresh Balaji S; Pravin U S	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568889
C-43	The Wings of Wellness: Autonomous Medical Delivery Drones Enhancing Patient Care and Accessibility	M. Supriya; S. Jeevitha; S.K Pranathi; M. Lokeshkumar	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568822
C-44	IoT Based Health Risk Monitoring System	Jaishankar B; Poornesh M; Kishorekumar M; Prasad K; Namadeep P	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568612

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C-45	Accelerative Fall Alert System Using Wristwear	Gunanandhini S; Mathavan P; Lakshna Shuruthi D; Nitteesh S; Manoj M	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568682
C-46	Health Monitoring and Fault Recognition of Power Transformer using IoT	Venkatesh T; J. Niveditha J; S. Pooja; Sreejaa S; Thejjashwine L; Rithanya G	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568847
C-47	An Ultrathin FSS Absorber for X-Band Applications	Singaram Manokaran; Shweatha J; Ramprabhu Sivasamy; Nithya Surya V; Geethika P	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568775
C-48	Design and Implementation of Knee Angle Recovery Companion Kit: A Knee Flex Rehab Aid System	Ram Nivas. D; Krishnaraj R; Kathirvelu. M; Ishwarya Niranjana. M	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568887
C-49	Ecowatt - Appliance Power Monitoring & Optimization	Murugan K; Namik Mohamed N R; KavinRaj S; M K Prabhu; MohitKumar N	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568852

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C-50	Oral Cancer Detection Using Convolutional Neural Networks	T Jagadesh; Kamalesh P; Kishore A; Lokin V; Jaiprakash B	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568599
C-51	Design of SIW Based Dual Feed Antenna for 5G Communication Systems	N. Sathishkumar; B. Anitha; A.Anzel Muhammad; B.V. Gokul Raj; P.S. Bhuvanesh	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568882
C-52	Design of EV Control Monitoring of Multiple Approach Fault Detection Using Multi Sensor IoT System	M. Supriya; Kavya. P; Parish. S; Nagavel. S; Mohana Prasad. S	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/document/10568628
C-53	Dual-Band Antenna System for Advanced Tactical Communication Networks in Next Generation Military Applications	N. Sathishkumar; S. Aravind; N. P. Dharaneeshwaran; R. Dharun Karthik et al.	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	June 2024	Scopus	ieeexplore.ieee.org/abstract/document/
C-54	IoT Based Exam Hall Surveillance Robot	Venkatesh T; Azeez S; GokulPrasanth B; Guru Kailash S; K. Siddharthraju et al.	2023 International Conference for Technological Engineering and its Applications in Sustainable Development (ICTEASD)	July 2024	Scopus	ieeexplore.ieee.org/document/10584589
C-55	Dual Power Dual Sensor Automatic Fogger Machine	Murugan, K., Sasirekha, R., Vallikannu, M., ... Venkatesh, T., Al-Fatlawy, R.R.	International Conference for Technological Engineering and its Applications in Sustainable Development, ICTEASD 2023, 2023	14.11.2023 and 15.11.2023	Scopus	ieeexplore.ieee.org/document/10585191

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C-56	Enforcement in the Security of ATM Pin Entry	Murugan, K., Dhanesh, R., Diliphan, R., ... Alsalami, Z., Gogineni, N.	International Conference for Technological Engineering and its Applications in Sustainable Development, ICTEASD 2023, 2023	14.11.2023 and 15.11.2023	Scopus	ieeexplore.ieee.org/document/10585235
C-57	Precision Smart Agricultural Monitoring using LoRaWAN	Jagadesh T; Ajay Krishnaa M; Chittharanjan D; Gowtham P; Prakash V Anandan et al.	2023 International Conference for Technological Engineering and its Applications in Sustainable Development (ICTEASD)	10.07.2024	Scopus	ieeexplore.ieee.org/document/10585007

Academic Research - Books/book chapters published – 2024-25

Proof No.	Title of the Book / Chapter	Author(s)	Book / Publisher	Year	Indexing	Link
B-01	The 5G Revolution in Healthcare: Shaping the Future of Medicine	Natraj. N.A., Prasad. J , Bhuvaneswari. M , Suriya.	Advanced Computing Solutions for Healthcare	01.02.2025	Scopus	benthambooks.com/book/9789815274134/co
B-02	AI-powered weed bot for sustainable precision farming	R. Jaikumar	Challenges in Information, Communication and Computing Technology	2024-11-19	Scopus	taylorfrancis.com/chapters/oa-edit/10.
B-03	Performance Evaluation of Children at Risk for Schizophrenia Using Ensemble Learning	Rathiya R., Kalamani M., Narmadha R. P., Sreenivasa Perumal L. and Kalpana R.	Smart Factories for Industry 5.0 Transformation, Scrivener Publication	01.01.2025	Scopus	scrivenerpublishing.com/cart/title.php
B-04	Design of monopole circular patch antenna based on DGS for UWB applications	K. B. Gurumoorthy, A. Arunraja, Cynthia Anbuselvi Thangaraj, R. Chandru et al.	Antennas for Industrial and Medical Applications with Optimization Techniques for Wireless Communication	2025	Scopus	routledge.com/Antennas-for-Industrial-
B-05	AI-Enhanced Drug Discovery for Alzheimer's	. R. Denslin Brabin, J. Muralidharan et al.	AI-Driven Alzheimer's Disease Detection and Prediction	2024	Scopus	igi-global.com/chapter/ai-enhanced-dru
B-06	Integrating Genomic Data and Genetic Risk Factors With AI for Predicting Susceptibility to Alzheimer's Disease	Nikhat Parveen, Vidyabharathi D., Nazeer Shaik, Ram Nivas D	AI-Driven Alzheimer's Disease Detection and Prediction	01.10.2024	Scopus	igi-global.com/gateway/chapter/353423

Proof No.	Title of the Book / Chapter	Author(s)	Book / Publisher	Year	Indexing	Link
B-07	Quantum Networking-Based Smart Jacket for Monitoring the Health Conditions of Patients UsingIoT	Poovi Nandhini S.,Mark Richard M., Ramesh S.M., S. Preethi, S. Rohit	AI and Quantum Network Applications in Business and Medicine & IGI Global Scientific Publishing	Jan & 2025	Scopus	doi.org/10.4018/979-8-3693-8135-9.ch01
B-08	Design and development of smart chair for physically, challenged persons	J. Indra, G.U. Chittesh, K. Dhanushpriya, K. Elayabharathi, S. Gokula Krishnan	Challenges in Information,, Communication and Computing, Technology	2025	Scopus	taylorfrancis.com/chapters/oa-edit/10.
B-09	Privacy and Security in AIoT	P. Megala, R. Prabhu, V. Seethalakshmi, T. Sathiyapriya, S. Thilagavathi et al.	AIoT: Artificial Intelligence of Things, Auerbach Publications	Jun 2025	Scopus	doi.org/10.1201/9781003482338
B-10	A Unified Energy Management Scheme for Distributed Grids Using Artificial Intelligence of Things	J. Prasad, T. Bhuvaneswari, K. Nagarajan, B. Manojkumar, K. Rajeshwaran et al.	Artificial Internet of things & Auerbach Publications	May 2025	Scopus	taylorfrancis.com/chapters/edit/10.120
B-11	VLSI Design	Ms. M. Supriya, Dr. C. Jeevanantham, Sri Roshini R, Anandhi Kathiresan, Dr. T. Manjula	AASAN Publications, Coimbatore (ISBN 978-81-982146-8-3)	11.12.2024	Book (ISBN)	www.aasans.com

Proof No.	Title of the Book / Chapter	Author(s)	Book / Publisher	Year	Indexing	Link
B-12	Linear Integrated Circuits	Dr. K. Murugan, Dr. A. Parimala Gandhi, Dr. Hari Mohan Rai, T. Velmurugan, M. Janani	AASAN Publications, Coimbatore (ISBN 978-81-982146-6-9)	11.12.2024	Book (ISBN)	www.aasans.com

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