



**ECE STAFF RESEARCH PUBLICATIONS – JOURNALS**

**2023-24 International Journals**

**(SCI-8, Scopus-4, UGC-15)**

S.No	Name of the Author	Title of the Paper	Name of the Journal	ISSN	Year of publication
1	Mr. Sekhar Didde	Sol-gel synthesis of CaZnAl <sub>2</sub> O <sub>4</sub> ceramic nanoparticles and investigation of their properties	Kuwait Journal of Science	2307-4108	2023-24
2	Dr. Siragam Srilali	Investigation of V <sub>2</sub> O <sub>5</sub> -ZnAl <sub>2</sub> O <sub>4</sub> composite nanoparticles for C-band microstrip patch antenna applications	Kuwait Journal of Science	2307-4108	2023-24
3	Dr. Siragam Srilali	Characterization of Ti <sub>x</sub> Zn(1-x) Al <sub>2</sub> O <sub>4</sub> nanoparticles by sol-gel method for wireless patch antenna applications.	Results in Optics	2666-9501 pp100547	2023-24
4	Mr. Sekhar Didde	Experimental Investigation of Calcium-Doped Zinc Aluminate Nanoparticles as a Promising Material for Microwave Applications	Acs-Omega	2470-1343 pp38064–38071	2023-24
5	Dr.K.Balamurugan	Cost-effective production of radiation shielding coatings using multilayers of titania and silica	Results in Optics	2666-9501	2023-24
6	Dr.K.Balamurugan	Development of SRAM-APB protocol interface and verification	Engineering Research Express	2631-8695	2023-24
7	Dr. Siragam Srilali	Multifunctional Titanium Co-Doped ZnAl <sub>2</sub> O <sub>4</sub> V <sub>2</sub> O <sub>5</sub> Composite Ceramic Nanoparticles: Enabling Enhanced Performance for L, S, C, and X Band Communications.	Optical Materials	115389	2023-24
8	Dr. Siragam Srilali	Synthesis and Fabrication of Proto-Type Microstrip Patch antenna by using Microwave Dielectric Ceramic Nanocomposite material for C-band Application.	Optik <a href="https://doi.org/10.1016/j.ijleo.2024.171787">https://doi.org/10.1016/j.ijleo.2024.171787</a>	171787	2023-24
9	Dr.D. Nataraj	A Circularly Polarized Antenna for UHF Satellite Communication Applications	Journal of Communications	1796-2021	2023-24
10	Dr.D.Nataraj	Design and Development of a Unique Antenna for Numerous Applications of Satellite Communication Based on Aluminium, Nickel and Copper	International Journal on Communications Antenna and Propagation	eISSN 2533-2929 pISSN 2039-5086	2023-24



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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

		Materials		pp 277-287	
11	Mr. Sekhar Didde	Exploring the Preparation of Calcium-Doped Zinc Aluminate Ceramic Nanoparticles for Microstrip Patch Antenna Fabrication	Materials Science Forum	1662-9452	2023-24
12	Dr.D. Nataraj , Dr.B. Sadasiva Rao and Dr.Y. S. V. Raman	A Wide Band Antenna for both S-Band and C Band Satellite Communication Applications	Journal of Communications	E1796-2021 vol. 19, no. 1, 2024	2023-24
13	Dr. B Ramana Kumar , Dr. B. Sada Siva Rao & Mr. L.V. Satyanarayana	Iot based Smart Baby Cradle	IJRAR	(E) 2348- 1269, (P) 2349-513	2023-24
14	Mr. Juluru Eswara Narasimha Abhilash , Mrs. M. Supriya , Dr. B. Sadasiva Rao	Improvisation of Healthcare, Agriculture, and City Life using Internet of Things	Indian Journal of Technical Education	0971-3034	2023-24
15	Dr. Y.S.V. Raman , Mr. Kurella Ayyappa Ravi Kiran, Mr. Legalla Anjaneyulu	Viral control using a Blockchain and Internet of Things Model based on the Cloud	Juni Khyat	2278-4632	2023-24
16	Dr. V. Trimurthulu ,Mr. G. Ashok Jeevan ,Mr. I.V. Ravi Kumar	Energy Data Recording and Tracking from Electric Motors using IoT	Journal of Management and Entrepreneurship	2229-5348	2023-24
17	Mrs. Gudapati Blessy Christina , Nrs. G. Navya , Mrs. A S N V Lakshmi Kantham	IoT-enabled robot wearing smart gloves	Indian Journal of Technical Education	0971-3034	2023-24
18	Mr. Molugumati Premchand , Mrs. G. Lakshmi Prasanna , Mrs. Velpuri Padma	Internet of Things (IoT) based Gas leak detection and Alarm system powered by Blynk	Juni Khyat	2278-4632	2023-24
19	Dr. Hari Sankara Sri Vastava, Mr. M. Murali, Mrs. V. Lavanya	Using the Internet of Things with the ESP8266 and Arduino to Monitor the Health	Journal of Management and Entrepreneurship	2229-5348	2023-24
20	Dr. K. Padhmavathi , Mrs. K. Radha , Mrs. M. Maha lakshmi	Detection of malicious sessions in IoT networks by using K-Nearest Neighbor and Moth Blade Optimization Algorithm.	Indian Journal of Technical Education	0971-3034	2023-24



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21	Dr. T. J. Alexander Mrs. Y. Dineesha , Mrs. Donga Hinduja	Internet of Things Platform for Distributed Brokers Based on MQTT	Juni Khyat	2278-4632	2023-24
22	Mrs. Eda Suma , Mr. N. Penchala Prasad , Mrs. K. Rama Lakshmi	An Affordable Platform for Robotics Education Driven by Open Source Hardware and 3D Printers	Journal of Management and Entrepreneurship	2229-5348	2023-24
23	Mrs. Bellamkonda Pavani , Dr. B. Ramana Kumar, Mrs. G. Santhi Kumari	Detection of malnutrition using convolutional neural network	Indian Journal of Technical Education	0971-3034	2023-24
24	Mrs. Mutyalapalli Kanaka Durga , Mr. L.V.S. Narayana, Mrs. K. Satisha	A Multi-Classification Deep Neural Network for Brain Tumor Images	Juni Khyat	2278-4632	2023-24
25	Mr. Marlapudi Murali , Dr. B. Nageswara Rao , Mr. D. Rahulkhanna	Estimation of the Average Age of IoT Malware Exploits Using Static and Dynamic Analysis	Journal of Management and Entrepreneurship	2229-5348	2023-24
26	Mr. A.R.V.S. Gupta , Mrs. K. Aparna Jyothi , Mrs. R. Sindhu	Reversible ALU quantum dot cellular automata: a new design and simulation	Journal of Management and Entrepreneurship	2229-5348	2023-24
27	Mr. V. Srinivas , Mrs. Y. Dineesha , Dr. S. Gopinath	Affect of Internet of Things on Multi-User Domains	Indian Journal of Technical Education	0971-3034	2023-24

**ECE STAFF RESEARCH PUBLICATIONS - JOURNALS****2022-23 International Journals****(SCI-2, Scopus-2, UGC-14)**

<b>S.No</b>	<b>Name of the Author</b>	<b>Title of the Paper</b>	<b>Name of the Journal</b>	<b>ISSN</b>	<b>Year of publication</b>
1	Mr. Srilali Siragam & Dr.R.S.Dubey,	Zinc Aluminate Based Composite Nanoparticles for Microwave Applications.	<i>ACS Omega</i> ,	7, 27, 23393– 23400, 2022.  38064–38071	2022-23
2	Mr.Sekhar Didde & Dr. RS Dubey	Experimental study of doped zinc aluminate nanoparticles by bottom-up approach for microstrip patch antenna applications	Journal of Material Science	0022-2461 / 1573-4803  57, pp 21069-21079	2022-23
3	Dr.K.Balamurugan	Speaker identification using hybrid neural network support vector machine classifier	International Journal of Speech Technology	1041-1053	2022-23
4	Dr.N. Kopperundevi	A Novel ANFIS Based SMC with Fractional Order PID Controller.	Intelligent Automation & Soft Computing	1079-8587, Vol 36 (1), pp745-760	2022-23
5	Mr. Kurada Veerabhadrachandra Sekhar Rao, Mr. G. Ashok Jeevan, Mrs. A S N V Lakshmi Kantham	Monitoring and Alerting System for Bridges Based on the Internet of Things	Indian Journal of Technical Education	0971-3034	2022-23
6	Kurella Ayyappa Ravi Kiran , Mr. Molugumati Premchand , Mrs. G. Navya	Tools for Interfacing Hardware and Software in Open Source Networks	Juni Khyat	2278-4632	2022-23
7	Dr. B. Ramana Kumar , Mrs. Medikenda Radha Rani , Mrs. V. Lavanya	Collaborative Learning to Boost Digital Signal Processing Grades	Journal of Management and Entrepreneurship	2229-5348	2022-23
8	Mr. Vungarala Satya Kishore ,	Robots for Exploration and Mapping Work Together	Indian Journal of Technical	0971-3034	2022-23



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	Mrs. Donga Hinduja , Dr. B. Sada Siva Rao		Education-23		
9	Mr. Challa Kanaka Lingeswararao , Mrs. G. Lakshmi Prasanna , Mrs. Mutyalapalli Kanaka Durga	Implementing IoT in the Classrooms by Pre-Service Teachers	Juni Khyat	2278-4632	2022-23
10	Mr. V. Srinivas , Mrs. Gudapati Blessy Christina , Mr. J.E.N. Abhilash	Making Better CRM Decisions with IoT Data	Journal of Management and Entrepreneurship	2229-5348	2022-23
11	Mr. L.V.S. Narayana , Dr. Harisankara Sri Vastava , Mrs. Velpuri Padma	Molecular nanomagnet chemical design with a solid foundation in data mining, dashboards, and statistics	Indian Journal of Technical Education	0971-3034	2022-23
12	Mrs. K. Rama Lakshmi , Mr. Indraganti Venkata Ravi Kumar , Mrs. V. Lavanya	Analyzing Breast Cancer Images Histopathologically using Deep Learning	Juni Khyat	2278-4632	2022-23
13	Dr. S. Gopinath , Mrs. G. Santhi Kumari , Dr. B. Nageswara Rao	ALU-based low-power architecture is based on clock gating and a carry select adder.	Journal of Management and Entrepreneurship	2229-5348	2022-23
14	Mrs. M. Supriya , Mrs. Eda Suma Mr. T. Jerry Alexander	Developing a Network-Enabled Product for Women's Protection	Indian Journal of Technical Education	0971-3034	2022-23
15	Mrs. Bellamkonda Pavani , Mr. S. Chanti , Mrs. M. Maha Lakshmi	A Rounding-Based Approach to the Construction of an Effective Approximate Multiplier	Juni Khyat	2278-4632	2022-23
16	Mr. A.R.V S Gupta , Mr. D. Rahulkhanna , Mrs. K. Satisha	A Survey of Distributed Intelligence and Its Applications in Multi-Robot Ensembles	Journal of Management and Entrepreneurship	2229-5348	2022-23
17	Mrs. K. Radha , Mr. Nalluri Surya Narayanamurthy ,	Guidelines for Safe and Effective Engineering of Internet of Things Devices Utilizing Machine Learning	Journal of Management and	2229-5348	2022-23



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	Mr. Male Nagesh		Entrepreneurship		
18	Mr. Marlapudi Murali , Mrs. A S K S Sindhu , Mrs. Rachapotu Sindhu	Arm Controlled via Hands-Free Technology	Indian Journal of Technical Education	0971-3034	2022-23



**ECE STAFF RESEARCH PUBLICATIONS – JOURNALS**

**2021-22 International Journals**

**(SCI-3, Scopus-1, UGC-13)**

S. No	Name of the Author	Title of the Paper	Name of the Journal	ISSN	Year of publication
1	Dr. B Subrahmanyeswara Rao & Dr.K.Balamurugan	Performance Analysis of Optad-NoC: A Novel Optimized Routing Algorithm and Intelligent Router for 3D Network-on-Chip	Wireless Personal Communications	0929-6212 (print); 1572-834X (Online)	24-08-2021
2	Mr.Srilali Siragam, Dr.RS Dubey,	Synthesis and investigation of dielectric ceramic nanoparticles for microstrip patch antenna applications	Journal Scientific Reports Vol 12, Issue 1 Pages 3929	2045-2322	10-03-2022
3	Dr.RS Dubey & Dr.S Srilali,	Synthesis and characterization of Zn <sub>x</sub> -1Al <sub>2</sub> O <sub>4</sub> (TiO <sub>2</sub> ) <sub>x</sub> nano composite ceramics and their humidity sensing properties.	Journal of Materials Science	0022-2461 / 1573-4803 57, Pp 2636–2649	03-01-2022
4	Dr.K.Balamurugan	Roadmap for Machine Learning based Network-on-Chip (M/L NoC) Technology and its analysis for Researchers	Journal of Physics Communications	2399-6528	18-02-2022
5	Mrs. Gudapati Blessy Christina, Mr. Kurada Veerabhadra C Rao	Voice Commands for Electronics with Bluetooth-Based Spoken Inquiries	Indian Journal of Technical Education	0971-3034	9(2) July 2021
6	Dr.B, Subrahmanyeswara Rao, Mr. Kurella Ayyappa Ravi Kiran, Mr. Legalla Anjaneyulu	CRNN and GRU reinforcement learning for audio captioning	Juni Khyat	2278-4632	11(1) 2021
7	Mrs. Mutyalapalli Kanaka Durga, Mrs. K. Aparna Jyothi, Mrs. Rachapotu Sindhu	Pattern Formation and Adaptation in Multi-Robot Systems	Journal of Management and Entrepreneurship	2229-5348	10(1) Jan 2021
8	Mr. Vungarala Satya Kishore, Mr. Marlapudi Murali, Mrs. A S N V	An Internet-of-Things and fog computing-based exam security system	Indian Journal of Technical Education	0971-3034	9(1) Jan 2021



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	Lakshmi Kantham				
9	Kurella Ayyappa Ravi Kiran , Mr. Challa Kanaka Lingeswararao , Mr. T Jerry Alexander	A state-of-the-art review of network and mobile communication technologies	Juni Khyat	2278-4632	11(2) 2021
10	Mr. Molugumati Premchand , Mrs. K. Rama Lakshmi , Mrs. Donga Hinduja	Accelerating nonnegative matrix factorization on many-core and multicore systems	Journal of Management and Entrepreneurship	2229-5348	11(1) Jan 2022
11	Mr. B. Subrahmaneswara Rao , Mr. G. Ashok Jeevan , Mrs. G. Lakshmi Prasanna	Semantic Thing-to-Service Matching Method in Industrial IoT Environments	Indian Journal of Technical Education	0971-3034	9(2) July 2021
12	Mrs. Eda Suma , Mr. L.V.S. Narayana , Mrs. G. Santhi Kumari	Improving the Vehicle-to-Vehicle Channel Non-Geometric Stochastic Model Outside the WSSUS	Juni Khyat	2278-4632	12(1) 2022
13	Mrs. Velpuri Padma , Mrs. V. Lavanya	Examining how cyber criminals target certain parts of Internet of Things infrastructures	Journal of Management and Entrepreneurship	2229-5348	10(2) Dec 2021
14	Dr. B. Subrahmaneswara Rao , Mr. M. Prem chand	Super-resolution of picture using an anchored deep network	Indian Journal of Technical Education	0971-3034	9(2) July 2021
15	Mrs. A S K S Sindhu , Mrs. M. Maha Lakshmi , Mr. Legalla Anjaneyulu	Optimization Algorithm Inspired by Artificial Bee Colonies to Improve Wireless Network Routing	Juni Khyat	2278-4632	12(2) 2022
16	Mr. Juluru Eswaranarasimha Abhilash , Mrs. Bellamkonda Pavani , Mrs. K. Radha	An Automatic Method for Detecting White Blood Cell Cancer in Bone Marrow Micrographs using Convolution Neural Networks	Journal of Management and Entrepreneurship	2229-5348	10(2) Dec 2021
17	Mr. Indraganti Venkata Ravi	Automatic number plate recognition system based on Optical Character	Indian Journal of Technical	0971-3034	10(1)





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	Kumar , Mr. Male Nagesh , Mrs. Medikenda Radha Rani	Recognition	Education		Jan 2022
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**ECE STAFF RESEARCH PUBLICATIONS - JOURNALS**

**2020-21 International Journals**

**(SCI-6, UGC-1)**

S.No	Name of the Author	Title of the Paper	Name of the Journal	ISSN	Year of publication
1	Dr. B Subrahmanyeswara Rao	Accurate Leukocoria predictor based on deep VGG-net CNN Technique	IET Journals	1751-9659	Aug - 2020
2	Mr.Srilali Siragam, Dr.Raghvendra S Dubey	Synthesis and investigation of dielectric properties of nanoceramic composite material for microwave applications.	Micro & Nano Letters, IET Digital Library	Volume 15, Issue 15, 30, pp 1156 – 1161 (E) 1750-0443	13-11-2020
3	Dr. S. Saravanan and Dr.R. S. Dubey	Electrochemical Growth and Characterization of ZnO Nanostructures for Dye-Sensitized Solar Cells	Micro & Nano Letters	1750-0443 15(12), 840-844	10-06-2020
4	Dr. S. Saravanan	Optical Pathlength Enhancement in Ultrathin Silicon Solar Cell Using Decorated Silver Nanoparticles on Aluminium Grating	Nanosystems: Physics, Chemistry, Mathematics (NPCM)	2220-8054, 2305-7971 Pp 86-91	2020
5	Dr. S. Saravanan and Dr.R. S. Dubey	Synthesis of SiO <sub>2</sub> Nanoparticles by Sol-Gel Method and Studies for their Optical and Structural Properties	Romanian Journal of Information Science and Technology, , vol 1, 105-112	14538245	2020
6	Dr. S. Saravanan and Dr.R. S. Dubey	One-Dimensional Photonic Crystals (Si/SiO <sub>2</sub> ) for Ultrathin Film Crystalline Silicon Solar Cells	Nanosystems: Physics, Chemistry, Mathematics (NPCM)	11 (2), 189-194 2220-8054, 2305-7971	<b>2020-2021</b>
7	Dr.N Kopperundevi	Enhancement of Water Submerged Images Using Fusion Technique	Design Engineering	0011-9342 pp 300-308	10-05-2021