

## ELECTRONICS AND INSTRUMENTATION ENGINEERING

### AY 2024 -25 Journals Publications

Sl No	Name of the author	Co-other	Title of the Manuscript	Name of the journal	SCI/SCIE	Volume and Issue	Date (M/D/Y)	ISSN Number
1.	Sumalatha Akunuri	MD. ZIA UR RAHMAN , (Senior Member, IEEE), SUMALATHA AKUNURI , D. AGABHUSHANA BABU , M. V. S. RAMPRASAD, SK. MOHAMMED SHAREEF, AND MASRESHAW DEMELASH BAYLEYEGN	A Novel Consensus Mechanism For Enhanced Security And Scalability In Electronic Health Record Management	IEEE Access	SCI/SCIE	July 2024	29 August 2024	1992- 8645
2.	Sumalatha Akunuri	Dr. K. Sudha Rani	Improving Semantic Segmentation Of Medical Images With Fine-Tuning Techniques	Journal Of Theoretical And Applied Information Technology	SCOPUS	102 (6)	31st August 2024	1992- 8645

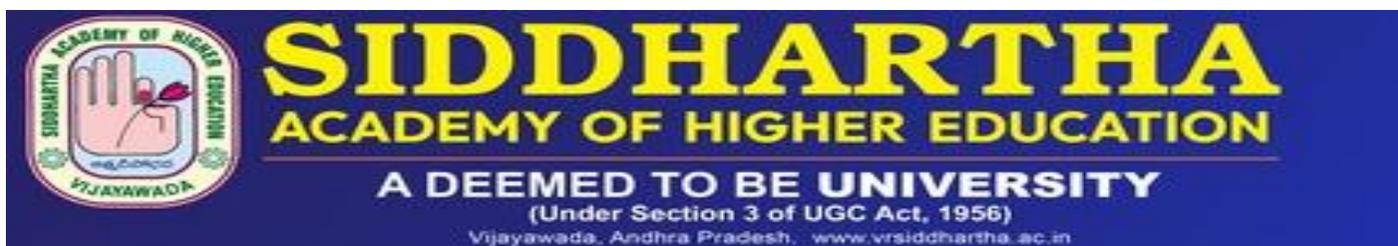
3.	Mahammad Firose Shaik	G.S.S.S.V.Krishna Mohan, B. Rama Rao, G Usandra Babu, K. S. Chakradhar, D.Nataraj	Design of IoT based Autonomous Wireless Body Area Networks to Monitor Vital Signs of COVID-19 Patients	Journal of Electrical Systems (JES)	SCOPUS	20 (3)	2024	7384-7401.
4.	Sumalatha Akunuri	M Lokeswari, Dr. Neela Victor Babu, Dr.A. Sumalatha	Soil Nutrient Variability Mapping Using Geospacial Techniques for Sustainable Agriculture in Chodavaram Mandal, Anakapalli District,A.P, India	GIS Science Journal	UGC	12 (2)	Feb 2025	2319-7706
5.	Sumalatha Akunuri	M.Lokeswari *, Dr. Neela Victor Babu, Dr. A. Sumalatha	Paddy Crop Yield Prediction by Using Soil Nutrients and Machine Learning	International Journal of Research and Analytical Reviews	UGC	11(4)	March 2025	2349-1269
6.	Sumalatha Akunuri	Kunchey. Prasanna Lakshmi, Dr. Neela. Victor Babu And Dr. A. Sumalatha,	Spatio-Temporal Assessment Of Cyclone Michaung-Induced Vegetation Changes In The Krishna Delta Using Ndvi	International Journal Of Research And Analytical Reviews (Ijrar)	UGC	11(4)	Nov 2024	2348-1269
7.	Sumalatha Akunuri	K Sudha Rani, A Suma Latha, S Sunitha Ratnam, J Bhavani, J Srinivasa Rao, N Kavitha Rao,	Lung Cancer Classification and Detection Using Deep Learning Technique	IJCSNS International Journal of Computer Science and Network Security	SCOPUS	24(10)	Oct 2024	2024-1009
8.	Kranthi Madala	Kranthi Madala, M.Siva Ganga Prasad,	Crop Mapping using Advanced Deep Learning Framework in Remote Sensing Data	International journal of Image and Graphics	SCI/SCIE	7(1)	Nov 2024	1946-7827
9.	Dr S Srinivasulu Raju	Yadav, C., Srinivasulu Raju, S. & Yenuganti, S.	A Tri-axial Resonating Beam MEMS Accelerometer.	J. Electr. Eng. Technol.	SCI/SCIE	20	Dec 2024	42835-024-01984-8

10.	Sushma Chowdary P	P.Sushmachowdary, Sampath Kumar Panda and V. Praveen Naidu,	Crescent shaped novel 4 × 4 port MIMO design with defected ground structure for multiband sub 6 GHz applications	Analog Integrated Circuits and Signal Processing,	SCI/SCIE	Vol. 123	Feb 2025	doi.org/1 0.1007/s 10470- 025- 02306-2
11.	Sushma Chowdary Polavarapu	Chowdary, P.S., Panda, S.K.	Performance Analysis of a Swastika shaped MIMO Antenna for Wireless Communication Applications	Engineerin, Techn ology and Applied Science Research	SCOPUS	15(1)	February 2025	<a href="https://doi.org/10.48084/etasr.9478">https://doi.org/10.48084/etasr.9478</a>
12.	CSS Anupama	S.N., Ramesh, Sripada N.S.V.S.C. B.M.M.A., Fardan,C.S., Anupama, C. S.S.S., Acharya, Srijana C., Yoon, Cheolhee	Leveraging Cyberattack News Tweets for Advanced Threat Detection and Classification Using Ensemble of Deep Learning Models With Wolverine Optimization Algorithm	IEEE Access	SCI/SCIE	13 (2025)	Mar 2025	10.1109/ ACCESS .2025.35 50378
13.	CSS Anupama	Madhavi Katamaneni, Dr C.S.S. Anupama, Chetla Chandra Mohan, B. Balaji Bhanu, P. Swetha Nagasri, J Mano Ranjini, Paruchuri Ramya, M.Bala Chennaiah	Methodical Review Of Mutation Testing for Software Projects	Journal of Theoretical and Applied Information Technology	SCOPUS	102(24)	Dec 2024	1992- 8645
14.	POLEPOGU RAJESH	Polepogu Rajesh, Vaegae Naveen Kumar,	Modelling and Analysis of Magnitude-Squared Wavelet Coherence data for Biomedical Applications	SSRG International Journal of Electronics and Communication Engineering	SCOPUS	12(1)	Feb 2025	2348- 8549

15.	Paruchuri Srinivas	Srinivas Paruchuri, V. Vijayasri Bolisetty, D. AnandKumar, Bokkisam Venkata Sai Sailaja,	High-gain radiating sun-shaped silicon-based wideband with defected ground structured dual-port MIMO antenna operating at 3.6 THz for 6 GHz Applications	Nano Communication Networks, Volume 44, July 2025,	SCI/SCIE	Volume 41 Jan 2025	Nov 2024	100572
16.	Kalpana seelam	Seelam, K., Rani, A.D., Rambabu, K., Karuppaiah, M., Al-Asbahi, B.A. and Babu, P.S.S.	Highly Flexible OPBI Membrane as Solid-State Electrolyte for Organic-Polymer-Based Supercapacitor Applications	J Appl Polym Sci	SCI/SCIE	142(27)	Jan 2025	<a href="https://doi.org/10.1002/app.57115">https://doi.org/10.1002/app.57115</a>
17.	M.Srinivas	M. Srinivas1 · G. Ravi Kumar Reddy2 · Subbu Sangeethapriya3 et al,	Design and Fabrication Development of Slotted T-Shaped Patch Antenna with Symmetrical CPW Feed for IOT and ITU Applications	Plasmonics	SCI/SCIE	2024 (2)	Nov 2024	<a href="https://doi.org/10.1007/s11468-024-02553-5">https://doi.org/10.1007/s11468-024-02553-5</a>
18.	Dasari Anusha	Dasari Anusha et al.	Building Robust Iot Networks With Dynamic Layer Prioritization And Predictive Fault Management Process	Journal of Theoretical and Applied Information Technology,	SCOPUS	1036 (26)	Nov 2024	1992-8645
19.	K Umamaheswari	V. Vijayasri Bolisetty, K Uma Maheswari, Chandana SriLakshmi, U. Yedukondalu, K.V. Vineetha	Analysis of a Tetra-Band Microwave Bandpass Filter for Satellite Communication Applications	International Journal of Microwave And Optical Technology	SCOPUS	20(2)	Mar 2025	3529-11

20.	Dr.Paruchuri Srinivas	Bolisetty V Vijayasri, P. Srinivas, P. Durgaprasadarao, U. Yedukondalu, Merugumalli Rama Krishna, K. V. Vineetha	Equivalent Circuit Based Microstrip Patch Antenna for N77 and N78 Applications	International Journal of Microwave And Optical Technology	SCOPUS	20(3)	May 2025	0975-8887
21.	Rajesh Polegopu	Polegopu, R., Vanapalli, S. S., Vanapalli, S. V., Diyya, N. P., Vandila, M., Valluri, D., ... Gelli, P.	Integrating genomics & AI for precision crop monitoring and adaptive stress management., 18–	Informatyka, Automatyka, Pomiary W Gospodarce I Ochronie Środowiska	SCOPUS	15(2)	Jun 2025	<a href="https://doi.org/10.35784/iapgos.7484">https://doi.org/10.35784/iapgos.7484</a>
22.	P Sushma Chowdary	SK Panda	Analysis of A Wide Band Swastik Shaped MIMO Antenna for Wireless Communication Applications	International Journal of Microwave & Optical Technology	SCOPUS	20(1)	Jan 2025	1553-0396
23.	Dasari Anusha	Dasari Anusha et.al	Intelligent Steganography: Cnn-Based Data Hiding In Edge Regions And Non-Overlapping Blocks	Journal of Theoretical and Applied Information Technology	SCOPUS	103(13)	July 2025	1992-8645

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## ELECTRONICS AND INSTRUMENTATION ENGINEERING

### AY 2024 -25 Conference Publications

SI No	Name of The Teacher	Title of The Paper	Title of The Proceedings of The Conference	Affiliating Institute at The Time of Publication	Name of The Publisher	Date (M/D/Y)	
1.	kalpana seelam	Monitoring of Hazardous Gases in Cattle Manure Pits for Protection of Cattle Farm Workers	2024 International Conference on Intelligent Systems for Cybersecurity (ISCS), Gurugram, India	Gurugram, India	SCOPUS	05-03-2024	05-04-2024
2.	kalpana seelam	Detection of Bacteria on Food using Deep Learning New Delhi, India, 2024	2024 First International Conference on Electronics, Communication and Signal Processing (ICECSP)	New Delhi, India	SCOPUS	08-08-2024	08-10-2024
3.	Vijaya Lakshmi Korupu	Smart Traffic Control: Leveraging DQN for Improved Urban Mobility	2024 Control Instrumentation System Conference (CISCON)	Manipal Institute of Technology, MAHE, Manipal, India.	SCOPUS	08-02-2024	08-03-2024

4.	Mahammad Firose Shaik	Harnessing Deep Neural Networks for Accurate PCOS Diagnosis from Medical Images	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCI GST)	Vijayawada, India	SCOPUS	07/18/2024	07/19/2024
5.	K Umamaheswari	IoT based ESP32-C3 Driven Smart Energy Meter	15th International Conference on Advances in Computing, Control, and Telecommunication Technologies	Hyderabad, India.	SCOPUS	12/22/2024	12/23/2024
6.	Korupu Vijaya Lakshmi	Webcam-Guided Rover Control for Medical Waste Transport.	2024 4th International Conference on Sustainable Expert Systems (ICSES),	Kaski, Nepal.	SCOPUS	10/15/2024	10/17/2024
7.	Sumalatha Akunuri	Forecasting Global Recession and It's Likely Fallout on India's Economy Using Machine Learning Techniques	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCI GST)	18-19 July 2024, VRSEC, Vijayawada, India.	SCOPUS	7/18/2024	7/22/2024
8.	Kranthi Madala	Safe Streets Initiative by Open Manhole Detection	13th International conference on Electrical Measurements and Instrumentation Engineering	in association with ACEECOM	SCOPUS	4/24/2024	4/25/2024
9.	Kranthi Madala	Silksage: Empowering Sericulture with Intelligent Environmental Monitoring and Control	Hinweis second international conference on Advanced Research in Engineering and Technology	Trivandrum Kerala, India	SCOPUS	2/24/2024	2/25/2024
10.	Dr. Swathi Nadipineni	Drowsiness Detection using DCCNN Algorithm	15th International Conference on Advances in Computing, Control, and Telecommunication Technologies	Hyderabad, India.	SCOPUS	2/23/2024	2/24/2024
11.	Dr.N.Swathi	Smart Drainage Monitoring System and Clog Detection with IoT	15th International Conference on Advances in Computing, Control, and Telecommunication Technologies	Hyderabad, India.	SCOPUS	2/23/2024	2/24/2024
12.	Dr. N Swathi	Crash Shield: An Advanced Airbag System for Enhanced Bike Safety	2024 IEEE International Conference on Intelligent Systems, Smart and Green	<u>Visakhapatnam, India</u>	SCOPUS	11-02-2024	11-03-2024

			Technologies (ICISSGT)				
13.	kalpana seelam	Non-Invasive Prediction of Vitamin-D Status by Using Machine Learning Algorithm	2024 International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS)	Bengaluru, India,	SCOPUS	12/17/2024	12/18/2024
14.	kalpana seelam	Rover-for Small Scale Plastic Collecting Applications	2024 5th International Conference on Smart Electronics and Communication (ICOSEC)	Trichy, India.	SCOPUS	9/18/2024	9/20/2024
15.	Mrs K. Niharika	Enhancemet of Network Security in Mobile Adhoc Networks using USASFO Algorithm for IoT Applications	Proceedings of the 5th International Conference on Data Intelligence and Cognitive Informatics (ICDICI-2024)	Tirunelveli, India	SCOPUS	11/18/2024	11/20/2024
16.	Dasari Anusha	Identifying Bikers Without Helmets and Triple Riding Automatically	ICST Institute for Computer Sciences, Social Informatics and Telecommunications Engineering	2025 Published by Springer Nature Switzerland AG	SCOPUS	04-05-2024	04-07-2024
17.	Jalalu Guntur	BRAIN TUMOR DETECTION USING CNN.	Fifteenth International Conference on Recent Trends in Information, Telecommunication and Computing, ITC 2024	Bengaluru, India	SCOPUS	1/26/2024	1/27/2024
18.	Jalalu Guntur	SMART DOOR LOCKING SYSTEM WITH RFID TECHNOLOGY	Fifteenth International Conference on Recent Trends in Information, Telecommunication and Computing, ITC 2024	Bengaluru, India	SCOPUS	1/26/2024	1/27/2024
19.	Dr.Prasanti Korapati	Smart Pothole Detection and Real-Time Monitoring using GPS Technology	International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI-2025)	Erode, India	SCOPUS	1/20/2025	1/22/2025
20.	Prasanti Korapati	Design and Simulation of Surface Acoustic Wave Sensor in COMSOL Multiphysics for Detection of Acetone	International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI-2025)	Erode, India	SCOPUS	1/20/2025	1/22/2025
21.	Prasanti Korapati	Mitigating Train Platform Gap Accidents through Automated Detection and	Second International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS-	Erode, India	SCOPUS	10/23/2024	10/25/2024

		Intervention	2024)				
22.	Prasanti Korapati	Design and Optimization of Electromagnetic Braker	International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI-2025)	Erode, India	SCOPUS	1/20/2025	1/22/2025
23.	Prasanti Korapati	Turbine Lube Oil Monitoring and Analysis Using IOT,2024,	2024 International Conference on Expert Clouds and Applications (ICOECA)	Bengaluru, India	SCOPUS	4/18/2024	4/19/2024
24.	sankalp paliwal	Machine Learning-Driven Analysis of Soil Nutrients and Environmental Factors for Optimized Crop Selection in Sustainable Agriculture	Proceedings of the International Conference on Sustainability Innovation in Computing and Engineering (ICSICE 2024)	Atlantis Press Netherlands	SCOPUS	12/30/2024	12/31/2024
25.	CH Jayalakshmi	IoT based Soil Nutrient Monitoring and Analysis System	5th International Conference on Iot based Control Networks and Intelligent Systems(ICICNIC 2024)	John Institute of Technology, Bangalore.	SCOPUS	12/17/2024	12/18/2024
26.	Jayalakshmi Ch	Mobile Control Robot Using DTMF	Hinweis Second InternationalConference on Control System and SignalProcessing (CSSP),	April 27-28, 2024 - Bengaluru, India.	SCOPUS	4/27/2024	4/28/2024
27.	Dr S Srinivasulu Raju	Gate Guard: Streamlining Agriculture with Smart Water Gate System	2024 3rd International Conference on Automation, Computing and Renewable Systems (ICACRS)	Pudukkottai, India, 2024.	SCUPUS	12-04-2024	12-06-2024
28.	Sushma Chowdary Polavarapu	UV Light Pest Control System Enhanced By Deep Learning	2024 First International Conference on Software, Systems and Information Technology (SSITCON)	Tumkur, India	SCOPUS	10/18/2024	10/19/2024
29.	Jalalu Guntur	Solar Solutions: Outdoor Air Purifier Fighting Against Urban Pollution	2024 IEEE International Conference on Intelligent Systems, Smart and Green Technologies	Visakhapatnam, India	SCOPUS	11-02-2024	11-03-2024

30.	Jalalu Guntur	Portable Electric Tiller And Cutter Machine	2024 IEEE International Conference on Intelligent Systems, Smart and Green Technologies	Visakhapatnam, India	SCOPUS	11-02-2024	11-03-2024
31.	CSS Anupama	Automatic Robot for Rail Crack Detection System	8th International Conference on Computational Systems and Information Technology for Sustainable Solutions (CSITSS 2024)	R.V. College of Engineering, Bangalore.	SCOPUS	11-07-2024	11-11-2024
32.	Mahammad Firose Shaik	Detecting Parkinson's Disease at an Early Stage Using Bagging Technique: An Approach Employing Machine Learning	International Conference on Advanced Computing and Communication Systems (ICACCS)	Coimbatore, India.	SCOPUS	03-14-2024	03-15-2024
33.	Mahammad Firose Shaik	<u>Maximizing WSN Lifetime Through Hierarchical Clustering for Efficient Energy Utilization and Prolonged Network Operation</u>	International Conference on Advanced Computing and Communication Systems (ICACCS)	Coimbatore, India.	SCOPUS	03-14-2024	03-15-2024
34.	Pillagolla Durgaprasada Rao	Image-Based Pest Detection and Identification System for Agriculture	2024 4th International Conference on Pervasive Computing and Social Networking (ICPCSN	Salem, India	SCOPUS	03-03-2025	03-03-2025
35.	Pillagolla Durgaprasada Rao	High Precision Blood Glucose Measurement from Breath Analysis	INTERNATIONAL CONFERENCE ON INNOVATIVE APPROACHES IN ENGINEERING & TECHNOLOGY: ICIAET-24 5-6 April 2024,	Proddatur, India	SCOPUS	04-05-2025	04-06-2025
36.	Dr.Sumalatha Akunuri	Design and Deployment of Anti-smog Gun for clean air in Urban areas	2025 International Conference on Emerging Smart Computing and Informatics (ESCI)	AISSMS Institute of Information Technology, Pune, India.	SCOPUS	03-05-2025	03-07-2025
37.	Sumalatha A	Smart Women's Safety Bangle: Innovative Wearable	3rd International conference on Advancements in Electrical,	CVRCE, Hyderabad	SCOPUS	04-04-2025	04-05-2025

		Technology for Real time Personal Security	Electronics,Communication, Computing and Automation (ICAECA 2025).				
38.	Dr.A.Sumalatha	Real - Time Aqua-Culture Pollution Identification Using Deployed RC Boat and IoT: A Step Towards Sustainable Aquatic Environments	1st International conference on recent trends in embedded, computing, control and automation (ICRTECCA 2025).	CVRCE, Hyderabad	SCOPUS	4/23/2025	4/24/2025
39.	Srinivas Maganti	Automatic emergency ventilator using Arduino with MAX30102 sensor	AIP Conf. Proc.	AIP Conf. Proc.	SCOPUS	04-05-2024	04-06-2024
40.	Srinivas Maganti	Wireless Caller ID Display for Bikers	AIP Conf. Proc.	AIP Conf. Proc.	SCOPUS	04-05-2024	04-06-2024
41.	Mrudula kilaru	Fraud Detection and Prevention in E-Commerce: Machine Learning Approaches to Secure Transactions	2025 First International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies (CE2CT)	Bhimtal, Nainital, India	SCOPUS	2/21/2025	2/22/2025
42.	Mrudula kilaru	Adaptive Learning Systems: Integrating IoT Sensors with Machine Learning for Dynamic Curriculum Adjustment	2025 International Conference on Pervasive Computational Technologies (ICPCT)	Greater Noida, India	SCOPUS	02-08-2025	02-09-2025
43.	Korupu Vijaya Lakshmi	Intelligent Quadruped Robot Locomotion using PPO Agent	6th International Conference of Emerging Technology (INCET 2025)	Jain College of Engineering Belagavi, India	SCOPUS	5/22/2025	5/24/2025
44.	Dr.Paruchuri Srinivas	Enhancing Road Safety: Speed Bump Warning Technologies	2024 IEEE 11th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)	Shri Ramswaroop Memorial College of Engineering & Management Lucknow, India.	SCOPUS	11/28/2024	11/29/2025
45.	Dr.A.Sumalatha	Eco Dynamic Dygester: A Pioneering Approach to Generate Clean Energy From Organic Food Waste	3rd Internationa conference on Communication, Security and Artificial Intelligence	Galgotias University Greater Noida, UP	SCOPUS	4/6/2025	4/4/2025

46.	Dr.A.Sumalatha	Thermoelectric Energy Harvesting From Non-Biodegradable Dry Waste	2024 5th International Conference on Recent Trends in Computer Science and Technology (ICRTCST)	Jamshedpur, India	SCOPUS	4/16/2024	4/15/2024
47	P. Rajesh	Solar- Powered Grass Cutter with Bluetooth Control	8th International Conference on Innovative Computing and Communication (ICICC-2025)	NewDelhi, India	SCOPUS	2/14/2025	2/14/2025
48	VATTIKUTI NAGA PRUDHVI RAJ	Lung Diseases Detection Using Deep Learning On NVIDIA Jetson Nano	2024 International Conference on Recent Innovation in Smart and Sustainable Technology (ICRISST)	Bengaluru, India,	SCOPUS	7/10/2024	8/10/2024
49	VATTIKUTI NAGA PRUDHVI RAJ	Acute Lymphoblastic Leukemia Classification With Jetson Nano	2024 2nd International Conference on Device Intelligence, Computing and Communication Technologies (DICCT)	Dehradun, India,	SCOPUS	12/10/2024	13/10/2024
50	Polepogu Rajesh	Building and Simulating an Effective Wireless Power Transfer Mechanism for Electric Vehicles	7th International Conference on Innovative Computing and Communication (ICICC-2024)	NEW DELHI	SCOPUS	19/10/2024	20/10/2024

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