



## LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

L.B.Reddy Nagar, Mylavaram – 521 230, Andhra Pradesh, INDIA.

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### ECE Dept. Research & Development Cell

#### R & D Publications for the A.Y.: 2024-2025

(From 1<sup>st</sup> July 2024 – 30<sup>th</sup> June 2025)

Dept.	SCI	ESCI	SCOPUS-J	SCOPUS-C	TOTAL	UGC/OPEN ACCESS
ECE	05	10	11	22	48	12

#### SCI Papers -05

1. Anandbabu Gopatoti, James Stephen Meka, **Poornaiah Billa**, “Hybrid medical image encryption with compression framework for Internet of Medical Things” in **Computers and Electrical Engineering**, 126(2025) 110443, June 2025. ISSN: 1879-0755  
<https://doi.org/10.1016/j.compeleceng.2025.110443>  
<https://www.webofscience.com/wos/author/record/AAV-7858-2021>  
**Q1 Journal, I.F-4.9**  
**Indexed in Scopus and Web of Science**
2. D.Ram Sandeep, S.Salma, K.Sanjay Kumar, **P. Rakesh Kumar**, Satti Sudha Mohan Reddy, Kokku Aruna Kumari, Sanjay Bandi, B.T.P. Madhav, “Material Selection to Modeling: A Comprehensive Investigation of a Conformal Circularly polarized textile antenna for wearable applications, in **IEEE Access**, June 2025  
**Indexed in Scopus**
3. S.Vijayakumar, **Lachi Reddy Poreddy**, Mohammed Mahaboob Basha, Karnam Gopi, Srinivasulu Gundala and Javed Syed, “Design of Spurious Dynamic Inverter-Based Level Shifter with Error Tolerance for Robotic Arm Controller”, **Micromachines**, November 2024, 15(12). SCIE Q2, ISSN: 2072-666X  
<https://doi.org/10.3390/mi15121431>  
<https://www.webofscience.com/wos/woscc/full-record/WOS:001384702800001>  
**Q2 Journal, I.F- 3.0**  
**Indexed in Scopus and Web of Science**
4. Srinivasa Rao Ghali, B. Prudhvi Nadh, **Prathipati Rakesh Kumar**, Moath Alathbath, B.T.P. Madhav, “Design and optimization analysis of Srichakra Shaped Conformal Antenna for off-body communication applications” in **Wireless Personal Communications**, **December 2024**, ISSN: 1572-834X, IF:1.9  
<https://doi.org/10.1007/s11277-024-11708-w>  
<https://www.webofscience.com/wos/author/record/AGE-8416-2022>  
**Q2 Journal, I.F- 1.9**  
**Indexed in Scopus and Web of Science**
5. S.K. Mastan Sharif, Rajasekhar Butta, Dhulipalla Venkata Rao, **G.L.N. Murthy**, “Improved LSTM-Squeeze Net Architecture for brain activity detection using EEG with improved feature Set” in **Biomedical Signal Processing and Control**, 101 (2025) 107222, **November 2024**, ISSN: 1746-8108.  
<https://doi.org/10.1016/j.bspc.2024.107222>  
<https://www.webofscience.com/wos/author/record/ABG-7136-2021>



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Q1 Journal, I.F-4.9

Indexed in Scopus and Web of Science

### ESCI Papers -10

1. Raja Dhanavath, Satish Kumar Injeti, **Rambabu Busi**, “Grid-Edge optimization for maximizing the utilization of solarbattery and wind biomass systems in Large-Scale Networked Microgrids to minimize overall cost” in **Journal of Active and Passive Electronic Devices**, 18(4), ISSN:1555-029X, pp.257-281

<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-4-2025/japed-18-4-p-257-281/>

<https://www.webofscience.com/wos/author/record/N-4832-2017>

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2. Raja Dhanavath, Satish Kumar Injeti, **Busi Rambabu**, “Optimization of solar-wind-battery Energy Storage systems in a Large Scale Networked Microgrids for the minimization of overall grid cost using improved butterfly optimizer” in **Journal of Active and Passive Electronic Devices**, 18(3),ISSN:1555-029X, pp.195-216

<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-3-2025/japed-18-3-p-195-216/>

<https://www.webofscience.com/wos/author/record/N-4832-2017>

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3. K. Saujanya, **B.Poornaiah**, A. Kamala Kumari, Y. Srinivasa Rao, “The Effect of Strain Pulses on PVC-Graphite Nickel Thick Film Resistors” in **Journal of Active and Passive Electronic Devices**, 18(4), pp.317-325, April 2024, ISSN: 1555-029X

<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-4-2025/japed-18-4-p-317-325/>

Indexed in Web of Science

4. **Kodali Rani Rudrama**, Vallabhuni Tulsi Naga Kalyan, Bachalakuri shini, Marampudi Vamsi, “Design and Analysis of a Triple-Band Stacked T-Polyimide Antenna for WBAN Applications” in Progress in Electromagnetics Research C, 155, 177-187, **May 2025**, ISSN:1937-8718

<http://dx.doi.org/10.2528/PIERC25021403>

<https://www.scopus.com/authid/detail.uri?authorId=57216372961>

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5. Mohammed Mahaboob Basha, Pendli Pradeep, **Srinivasul Gundala**, Javed Syed, “Design of Compact and high gain dual-band four-port MIMO antenna array for mm-wave 5G communications”, **Results in Engineering**, 2025, **January 2025**, 25,ISSN: 2590-1230

<https://doi.org/10.1016/j.rineng.2025.104153>

<https://www.webofscience.com/wos/author/record/AAD-5051-2020>

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6. B.Prudhvi Nadh, **Banothu YVNR Swamy**, Yarlagadda Ramakrishna, D Anveshini, Srinivasa Rao Kandula, Lokesh Raju V, Priyanka Das, BTP Madhav, “Design of Compact



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true wireless stereo (TWS) antenna in earphones for wearable communication applications” in **Engineering Research Express**, 7(2025) 015322, **January 2025**

<https://doi.org/10.1088/2631-8695/ada873>

<https://www.webofscience.com/wos/author/record/AGA-1049-2022>

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7. **M. Venkata Sudhakar**, “High-Speed voltage level-up shifter with wide range conversion for system-on-chip applications” in **Engineering Research Express**, **November 2024**, **ISSN**: 2631-8695

<https://iopscience.iop.org/article/10.1088/2631-8695/ad923c>

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8. Mohammed Mahaboob Basha, **Srinivasulu Gundala**, V Madhurima and Arfat Ahmad Khan, “Design of energy-efficient full subtractor circuit at near threshold computing for signal processing application” in **Engineering Research Express**, 6(4), **October 2024**, **ISSN**: 2631-8695

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9. **Rambabu Busi**, **Satyanarayana Talam**, Ch. Karthikeya Reddy, T. Ashok Reddy, R. Gowtham Arun Kumar R. Naveen, Ch. Jyothi ram and M. Harshada (2024), “Design, Simulation and Optimization of MEMS-based Piezoresistive Biosensor with Stress Concentration Region for Biosensing Applications” in **The Journal of Active and Passive Electronic Devices (JAPED)** USA, Vol.18. Issue. 1-2, P.P. 153-160, 2024. **October 2024**, **ISSN**: 1555-0281 (P) 1555-029X (O)

<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-2-2024/japed-18-2-p-153-160/>

<https://www.webofscience.com/wos/author/record/N-4832-2017>

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10. M. Mahaboob Basha, **Srinivasulu Gundala** and **Rambabu Busi** (2024), “Minimization of Leakage Current Control in CMOS Adder Circuits Using Parametric Variations” published in **The Journal of Active and Passive Electronic Devices (JAPED)**, Vol.18. Issue. 1-2, P.P. 105-118, 2024. **October 2024**, **ISSN**: 1555-0281 (P) 1555-029X (O)

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### Scopus Papers-11

1. Anil Kumar Pallikonda, Anil Kumar Katragadda, Jagadeeswara Rao Annam, **V.V. Rama Krishna**, Sai Sirisha Chittineni, Eswar Patnala, Vipparla Aruna, “Optimizing Real Time IOT Processing with Hybrid Edge Cloud Architecture for enhanced latency and energy



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efficiency, in Journal of Theoretical and Applied Information Technology, June 2025, 103 (12)

<https://www.jatit.org/volumes/Vol103No12/16Vol103No12.pdf>

Indexed in Scopus

2. Bethala Ramya, Jagadeeswara Rao Annam, V Sitarahalakshmi, **V.V. Rama Krishna**, K.Trinadh, Ravi Kumar, Rednam S S Jyothi, Krishna Suresh, Anil Kumar P, “Deploying Lightweight Mobilenet Models on Edhe devices for energy efficient real time AI in IOT Networks” in **Journal of Theoretical and Applied Information Technology**, 103(11), **June 2025**, ISSN: 1992-8645

<https://www.jatit.org/volumes/Vol103No11/11Vol103No11.pdf>

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3. Ching-Lun Su, Po-Hsun Chiu, Ruey-Ming Kuong, Hsyang-Chan Chen, Yen-Hsyang Chu, **A. Narendra Babu**, P.S. Brahmanandam, New Chunh-Li Meteor RADAR in Taiwan- Preliminary Results” in Proceedings of Engineering Sciences, 7(1), January 2024

<https://oaji.net/articles/2023/8593-1741538575.pdf>

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4. D. Jyothi, **P. James Vijay**, M.Kishore Kumar, R. Venkata Lakshmi, “Design of an improved method for Intrusion Detection using CNN, LSTM and Block Chain” in **Journal of Theoretical and Applied Information Technology**, 103(1), **January 2025**, pp.1-22, ISSN: 1817-3195

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5. **Ravi Kumar Kandagatla**, Surya Teja K, Ramya S, Vijaya Kumar P, Dileep Kumar P, “Design of a high Gain Low Noise Amplifier at 3.3 GHz using CMOS Technology”, in **Engineering Access**, 11(1), **December 2024**, pp.45-49, ISSN:2730-4175

<https://ph02.tci-thaijo.org/index.php/mijet/article/view/253867>

<https://www.scopus.com/authid/detail.uri?authorId=57194103955>

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6. Moammed Mahaboob Basha, P. Bhuvanswari, V. Madhurima, **Lachi Reddy Poreddy**, Srinivasulu Gundala, “Machine Learning Enabled System for Screening Covid-19 kind of disease for dense population sector” in **Engineering Access**, 11(1), **December 2024**, pp.128-133, ISSN:2730-4175

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7. Pradeep M, Ch Venkanna, **V. Ravi Sekhara Reddy**, G. Sudhavani, B Keerthi Samhitha, Kurra Upendra Chowdary, “Convolutional-Neural-Networks based detection of the Pneumonia disease-An Emperical Investigation”, in **Journal of theoretical and applied information technology**, 102(21), **November 2024**, ISSN:1992-8645, pp.7969-7977.

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**Indexed in Scopus**

8. **Ravi Kumar Kandagatla**, V. Jayachandra Naidu, P.S.Sreenivasa Reddy, Sivaprasad Nandyala, “Speech Enhancement using Joint Time and DCT processing for Real Time Applications” in **International Journal of Image, Graphics and Signal Processing (IJIGSP)**, 16(5), **October 2024**, **ISSN**: 2074-9082

<https://doi.org/10.5815/ijigsp.2024.05.02>

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9. **Muppidi Venkata Sudhakar**, “Distortion-tolerant on-off keying preemphasis signal transmission for a 10Gbps indoor visible light communications” in **Journal of Optical Communications**, **September 2024**, **ISSN**: 2191-6322

<https://doi.org/10.1515/joc-2024-0160>

<https://www.scopus.com/authid/detail.uri?authorId=55786607000>

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10. Mahammed Rafi.G, R. R. Dhanalakshmi, **Rambabu. B**, “Design of Multi-loop PI controller for minimum phase system level regulation in a quadruple tank: A method for Constraint optimization” in **International Journal of Electrical and Electronics Research (IJEER)**, 12(3), **July 2024**, **ISSN**:2347-470X

<https://doi.org/10.37391/IJEER.120315>

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11. **Ravi Kumar Kandagatla**, Vineela Malapati, Krishnaveni Cherukuri, Bharadwaj Sindhe, Vijaya Kumar P, Bala Krishna T, “ Sea Clutter Suppression using Neural Network”, in **Maritime Technology and Research**, 7(1), **July 2024**, **ISSN**: 2651-205X

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### **Scopus Conference Proceedings-22**

1. **B.Y.V.N.R.Swamy**, M. Sambasiva Reddy, M.Serishma, K. Lokesh, M. Mounika, S.K.Abdul Mushtaq, “IoT based vehicle accident and alcohol detection system by using GSM and GPS” in AIP Conference Proceedings, in 1<sup>st</sup> International Conference on Emerging Technologies in Engineering and Science, ICETES 2023, Kanchikacherla during 11-08-2023 to 12-08-2023 (**Online February 2025**), 3162(1)

<https://doi.org/10.1063/5.0242388>

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2. Kamireddy Vijay Chandra, C.V. Rambabu, D.Manju, N. Syamala, **Poornaiah Billa**, “Unveiling the Depths of Stromal Layer Analysis with Deep Learning: Harnessing Mobilenet V2 Algorithm for Comprehensive Insights” in IEEE 2025 15<sup>th</sup> International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), January 2025 (**Online April 2025**), ISBN: 979-8-3503-5623-6

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3. Sirisha J, Sarath Chandra, B Madhavi, **Boggula Lakshmi Thirupathamma**, Tejaswi Vallabhapurapu, Naveen Kumar Penjarla, “Advanced Deep Learning Techniques for Accurate Detection of Pathological Infant Cry Signals”, in 2024 4<sup>th</sup> International Conference on Soft Computing for Security Applications (ICSCSA), ISBN: 979-8-3315-1572-0,

<https://doi.org/10.1109/ICSCSA64454.2024.00047>

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4. V.L. Bhavani Maddirala, Divya Chaturvedi, Arvind Kumar, **Ramesh Reddy Bojja**, A QMSIW based antenna sensor for breast tumor detection, in **3<sup>rd</sup> IEEE Microwave antenna amd propogation conference (MAPCON-2024) during 09-12-2024 to 13-12-2024 at Novotel HICC, Hyderabad**, India organized by IEEE MTT/AP/EMC Society Hyderabad Jt.Chapter, ISBN: 979-8-3503-7969-3 (Online March 2025)

<https://doi.org/10.1109/MAPCON61407.2024.10923142>

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5. Kamireddy Vijay Chandra, C.V.Rambabu, S.Bhargav, K.Sudha Rani, **Poornaiah Billa**, “Skin Cancer classification: A comparative analysis of EfficientNet and hybrid model (Xception+Efficient NET+GCN)” in **2024 First international conference on Innovations in Communications, Electrical and Computer Engineering (ICICEC)** during 24-10-2024 to 25-10-2024 (**Online 30-12-2024**), ISBN: 979-8-3503-7651-7

<https://doi.org/10.1109/ICICEC62498.2024.10808717>

**Indexed in Scopus**

6. Kamireddy Vijay Chandra, C.V.Rambabu, S.Bhargav, K.Sudha Rani, **Poornaiah Billa**, “Skin Cancer classification: A comparative analysis of ResNet 50 and hybrid model (Xception+Efficient NET+GCN)” in **2024 First international conference on Innovations in Communications, Electrical and Computer Engineering (ICICEC)** during 24-10-2024 to 25-10-2024 (**Online 30-12-2024**), ISBN: 979-8-3503-7651-7

<https://doi.org/10.1109/ICICEC62498.2024.10808818>

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7. **Poornaiah Billa**, J. Divya, P. Lakshmi Lavanya, M.Vidya, “Efficient Detection of Lung Diseases using Deep Learning Through Scan Images” in **1<sup>st</sup> International Conference on “Computational Intelligence for Security, Communication and Sustainable Development (CISCSD)** on 5<sup>th</sup>-6<sup>th</sup> August 2024 organized by **Dr.B.R.Ambedkar Institute of Technology, Port Blair, Andaman & Nicobar Islands.**, ISSN:979-8-3503-6540-5 (Online Feb 2025)

<https://doi.org/10.1109/CISCSD63381.2024.00058>

**Indexed in Scopus**

8. **Poornaiah Billa**, Uday Kiran, Y. Jigeesha, B. Baby Shalini “Design and Implementation of 4-bit synchronous up counter using GPKD 45 Technology” in **1<sup>st</sup> International Conference on “Computational Intelligence for Security, Communication and Sustainable Development (CISCSD)** on 25-26 April 2024 organized by



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**Dr.B.R.Ambedkar Institute of Technology, Port Blair, Andaman & Nicobar Islands.**

ISSN:979-8-3503-6540-5 (Online Feb 2025)

<https://doi.org/10.1109/CISCSD63381.2024.00065>

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9. **M.Ramya Harika**, Papana Krishna Reddy, Chaitanya Jannu, Veeraswamy Parisae, Chinta Venkata Murali Krishna, G.L. Madhumati, “Real Time Speech Enhancement using Triple attention U-Net”, in **4<sup>th</sup> International Conference on Artificial Intelligence and Signal Processing (AISP)** held at VIT-AP, Amaravathi during 26-10-2025 to 28-10-2025 (Online February) ISBN: 979-8-3503-5065-4.

<https://doi.org/10.1109/AISP61711.2024.10870819>

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10. Mohammed Mahaboob Basha, P.Sai Rama Shashank, G. Rushikesh, K. Varsha Reddy, G. Ganesh Kumar, **Srinivasulu Gundala**, “Distributed Arithmetic Based FIR FPGA Implementation, in **15<sup>th</sup> International Conference on Computing, Communication and Networking Technologies**, held at **IIT-Mandi** during 24-06-2024 to 28-06-2024. (Online November) ISBN: 979-8-3503-7024-9

<https://doi.org/10.1109/ICCCNT61001.2024.10725340>

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11. **Kola Balavani**, V.Akshara, E.Venkata Sandeep, M.Charan Sai, K. Raghava Rao, B. Naresh Kumar Reddy, “Enhanced PSO Integrated Machine Learning for Launch Vehicle Engine Temperature and Pressure Monitoring for Risk Prediction” in **15<sup>th</sup> International Conference on Computing, Communication and Networking Technologies**, held at **IIT-Mandi** during 24-06-2024 to 28-06-2024 (Online November) ISBN: 979-8-3503-7024-9.

<https://doi.org/10.1109/ICCCNT61001.2024.10725589>

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12. Naga Swathi Nidamanuru, Kommalapati Rajesh, U. Srinivasarao, Kalpana Koppolu, **Kola Balavani**, Mogadala Vinod Kumar, “Property Price Estimation using Machine Learning and implementing a website using HTML, CSS and Javascript” in **15<sup>th</sup> International Conference on Computing, Communication and Networking Technologies**, held at **IIT-Mandi** during 24-06-2024 to 28-06-2024. (Online November) ISBN: 979-8-3503-7024-9

<https://doi.org/10.1109/ICCCNT61001.2024.10724138>

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13. Mohammed Mahaboob Basha, Krishna Samalla, **Srinivasulu Gundala**, Nouchu Rahul, Dadapak Sriya, Salluri Deepika, Exploring energy efficient area optimized one-bit full Subtractor circuit for



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Signal processing application using CMOS and FinFET Technology, in **2024 IEEE 2nd International Conference on Networking, Embedded and Wireless Systems (ICNEWS)**, on 22-23 August 2024 organized by **BMS college of Engineering, Bangalore. (Online 29 October 2024), ISBN: 979-8-3503-6746-1**

<https://doi.org/10.1109/ICNEWS60873.2024.10730942>

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14. V.Madhurima, M.Bharathi, **Srinivasulu Gundala**, M Mahaboob Basha, M Poornima, G Sandhya Kumari, “Novel Method for Bone cancer detection using Segmentation and classification with CNN”, in **2024 5<sup>th</sup> International Conference on Electronics and Sustainable Communication Systems (ICESC)**, at Coimbatore India, during 7-9 August 2024 (**Online 2 October 2024**) ISBN:979-8-3503-7994-5

<https://doi.org/10.1109/ICESC60852.2024.10689931>

**Indexed in Scopus**

15. Mohammed Mahaboob Basha, Vadde Seetharama Rao, **Lachi Reddy Poreddy**, V.Madhurima, Srinivasulu Gundala, Ovidiu Petru Stan “Implementation of Full Adder Cells for Ultra Low Power Energy Efficient Computing Applications”, in **2<sup>nd</sup> International Conference on Sustainable Computing and Smart Systems (ICSCSS 2024)** organized by **Hindusthan College of Engineering and Technology**, Coimbatore, India on 10-07-2024 to 12-07-2024., (**Online 20 August 2024**), ISBN: 979-8-3503-7999-0

<https://doi.org/10.1109/ICSCSS60660.2024.10625340>

**Indexed in Scopus**

16. Madhavi Mallam, **M.K.Linga Murthy**, Tatikonda Sri Devi, Jami Venkata Suman, Dr.Subba Rao Polamuri, “Stock Market Price Prediction using Machine Learning” in 2024 Second International Conference on Advances in Information Technology (ICAIT-2024), during 24-27 July 2024, (**04 October 2024**), **ISBN: 979-8-3503-8386-7**

<https://doi.org/10.1109/ICAIT61638.2024.10690737>

**Indexed in Scopus**

17. **B.Y.V.N.R. Swamy**, Teladala Chanakya, Karedla Sri Vijay Kumar, Jetipiti Sravani (**20761A04F0**), “Design of 4X4 MIMO Antenna for 5G applications” in **Asia Pacific Conference on Innovation in Technology (APCIT 2024)** during 26 to 27 July 2024 at **Vidyavardhaka College of Engineering, Mysuru. (Online September 2024), ISBN: 979-8-3503-6153-7**

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