

| Jaypee Institute of Information Technology Department of Electronics and Communication | |
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| 2025 10TH INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING AND COMMUNICATION (ICSC 2025) | |
| CONFERENCE SCHEDULE | |
| Day 1: Thursday, Feb 20, 2025 | |
| 10:00 A.M - 11:15A.M. | Inauguration by Dr. Sunil Kumar Barnwal (IAS, Additional Secretary, Department of Higher Education, Ministry of Education, Government of India) (Offline) Venue: Auditorium |
| 11:15 A.M- 11:30 A.M. | High Tea |
| 11:30 A.M- 12:30 P.M. | Keynote Talk 1: Dr. L Venkata Subramaniam, Artificial Intelligence and Quantum India Leader, IBM. (Offline) Venue: LT4 |
| 12:30 P.M - 01:45 P.M. | Technical Session 1 (* Highlighted author name is the presenter name) |
| Session-1.1.1: Communication - I (VENUE G10) (Offline) | |
| Session Chair: Dr. Anuradha Pughat | |
| Session Rapporteur: Dr. Himani Gupta, Session In-charge: Dr. Madhu Jain | |
| 1571092757 | Wideband and Tunable Terahertz Metamaterial Absorber using Vanadium Dioxide |
| | Shakti Sharma (University of Delhi, India); Shatish Kumar Gautam (Jawaharlal Nehru University, India); Ashwani Kumar (University of Delhi, India); Updesh Sharma and Shankar Dutta (DRDO, India); Manoj Kumar Khanna (UDSC, India) |
| 1571101070 | Simulation and Performance Evaluation of RIS aided Beyond 5G Systems |
| | Mariya Iftekhhar and MohdSharique (Aligarh Muslim University, India) |
| 1571101201 | Hash Based Message Authentication Code Performance with Different Secure Hash Functions |
| | Ankush Soni (BITS Pilani K.K. Birla Goa Campus, India); Sanjay K. Sahay (BITS Pilani, India); Vaishali Soni (Netaji Subhas University of Technology, India) |
| 1571088863 | Analysis of Feed Network Efficiency in Time-Modulated Elliptical Antenna Array for 5G and 6G communication systems |
| | Satish Kumar (National Institute of Technology Durgapur, India); Gopi Ram (National Institute of Technology, Warangal, India); Durbadal Mandal and RajibKar (National Institute of Technology, Durgapur, India) |
| Session-1.1.2: Intelligent Computing and Machine Learning -I (VENUE G11) (Offline) | |
| Session Chair: Dr. Neetu Singh | |
| Session Rapporteur: Dr. Harish Bishwakarma, Session In-charge: Dr. Ritu Raj | |
| 1571079916 | Stuttering Detection Using LSTM and LSTM-Attention based Convolutional Neural Network |
| | Monalisa Maity , Ishita Gupta and Dinesh Kumar Vishwakarma (Delhi Technological University, India) |

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| 1571093684 | Automated Attendee Recognition System for Large-Scale Social Events or Conference Gathering |
| | Dhruv Motwani (Avahi, USA); Ankush Tyagi (Ericsson, USA); Vipul Dabhi (DDU, India); Harshad kumar Prajapati (Dharmsinh Desai University, India) |
| 1571088812 | An Integrated Framework for Fake Review Detection and Review Summarization on Product Reviews |
| | S. Lalitha (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, India); Achu Jayan, Aditya Ithamraju , S. Tilak and Adithya N. Reddy (Amrita Vishwa Vidyapeetham, India) |
| 1571095006 | Design and Fabrication of a Economical 3D-Printed Cylindrical Luneburg Lens |
| | Maxon Okramcha (Changchun University of Science and Technology & Xiangshan 5G/6G Laboratory, China); Wang Zuobin (Changchun University of Science and Technology & International Reserach Centre for Nano Handling and Manufacturing of China (CNM), China); Ravi Kumar Arya (Zhongshan Institute of Changchun University of Science and Technology, China); Yida Fan (Changchun University of Science and Technology, China); Junwei Dong and Shiyuan Kong (Zhongshan Institute of Changchun University of Science and Technology, China); Raj Mitra (Penn State University, USA); Anant Rajput (JNU, India) |
| Session-1.1.3: Signal Processing - I (VENUE G12) (Offline) | |
| Session Chair: Prof. Bhagwati Prasad | |
| Session Rapporteur: Dr. Sumit Mahajan, Session In-charge: Dr. Monika | |
| 1571093806 | RIWAPV: Robust image watermarking in compressed domain based on adjacent pixel variation |
| | S. Mehraj, S. Mushtaq, S. A. Parah and G J. Qureshi (University of Kashmir, India); G J. Qureshi (Higher Education Department, India) |
| 1571088381 | Alzheimer's Disease Detection using Bidirectional Empirical Mode Decomposition |
| | Neha Garg (Ajay Kumar Garg Engineering College, Ghaziabad); Amit Garg (Ajay Kumar Garg Engineering College, Ghaziabad, India); Mahipal Singh Choudhry (Delhi Technological University, India) |
| 1571088389 | Optimizing the Performance of Hybrid Software Defined Network (SDN) through Metaheuristic Algorithms |
| | Deepak Bishla (Manav Rachna International Institute of Research and Studies, India); Brijesh Kumar (MRIIRS, India) |
| 1571095059 | Investigating the impact of Hilbert vibrational decomposition on chaos based image encryption algorithm |
| | Vinay Kumar Sharma (Rajasthan Technical University Kota, India); Jankiballabh Sharma (Rajasthan Technical University, India) |
| 1571100753 | Automated Nuclei Segmentation using Shearlet based Unsharp Masking |
| | Shivam Mishra (IIITDM, Jabalpur, India); Amit Vishwakarma (IIITDM JABALPUR, India); Ronak Vimal (IIITDM Jabalpur, India); Anil Kumar (IIITDMJ Jabalpur, India) |
| 1571088677 | Design and Implementation of FIR Filter using Different Architectures: A Comparative Study |
| | Teena Soni , Anil Kumar and Manoj Kumar Panda (IIITDM Jabalpur, India) |

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| Session-1.1.4: Intelligent Computing and Machine Learning– II (Online Session-LT4) | |
| Session Chair: Prof. Vishal Bhatnagar | |
| Session Rapporteur: Dr. Piyush Sharma, Session In-charge: Dr. Ankur Gupta | |
| 1571101269 | RADAR: Robust Anomaly Detection and Recognition for IoT Botnet Attacks using Hyper-Dimensional Models |
| | Abdullah M Alqarni, Faiz S Alshehri and Majed S Alharbi (Sacred Heart University, USA); Nitin Talreja (United Health Group, USA); Sajal Bhatia (Sacred Heart University, USA) |
| 1571101208 | Optimizing Resource Utilization of Big Data in Healthcare for Cardiovascular Disease Prediction |
| | G. Vallathan (Geethanjali College of Engineering and Technology, India); G. Karthi (Saveetha Engineering College, India); G. Venkateshwarlu (Geethanjali College of Engineering and Technology, India); B. Sundaramurthy (Vinayaka Missions KirupanandaVariyar Engineering College, India) |
| 1571097642 | Barley Root and Shoot Growth Dynamics in Deep Water Culture Hydroponics: Comparative Analysis using AquaCrop Simulator |
| | Monica Dutta (Chitkara University, India); Deepali Gupta and Deepam Goyal (Chitkara University Institute of Engineering and Technology, India); V. Senthil (Government Engineering College, Bodinayakanur, Tamil Nadu, India) |
| 1571099780 | Transforming Healthcare with AI: Multimodal VQA Systems and LLMs |
| | SowthikaSemmandampalayamVengatachalam (Kongu Engineering College,India); ThamilselvanRakkiannan (Kongu Engineering College, India) |
| 1571086512 | Detecting Alzheimer’s Disease (gender-based) using different machine learning approaches |
| | Nikhil Bisht , Harendra Singh Negi (Graphic Era Deemed to be University, India) Richa Indu , Sushil Chandra Dimri , Bhawmesh Kumar and Atika Gupta |
| 1571098677 | Federated Learning for Detecting Anomaly in IoT Networks |
| | Vikas Tomar , Vikas Kumar Jain and Anil Kumar Yadav (VIT Bhopal University, India); Shiv Shankar Prasad Shukla (VIT BHOPAL University, India); Dharmveer Rajpoot (Jaypee Institute of Information Technology, Noida, India) |
| 01:45 P.M - 02:30 P.M. | Lunch |
| 02:30 P.M- 03:30P.M. | Keynote Talk 2: Prof. (Dr.) Bhim Singh SERB National Science Chair & Emeritus Professor FNAE, FNA, FNASc, FASc, FTWAS, FIEEE, FIET, FIETE, FIE (I), C. ENGR Department of Electrical Engineering Indian Institute of Technology Delhi (Offline) VENUE: LT4 |
| 03:30 P.M- 03:45P.M. | Tea |
| 03:45 PM- 05:00 P.M. | Technical Session 2 (* Highlighted author name is the presenter name) |
| Session-1.2.1: VLSI Technology and Embedded Systems – I (VENUE G10) (Offline) | |
| Session Chair: Prof. N. S. Beniwal | |
| Session Rapporteur: Dr. Madhu Jain Session In-charge: Dr. Himani Gupta | |
| 1571095282 | Design and Simulation of Low Power Leakage- Controlled SRAM Cell |
| | Avinash Singh , Rajeev Kumar Chauhan and Saurabh Kumar (Madan Mohan |

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| | Malaviya University of Technology, India); Prince Kumar Singh (Madan Mohan Malaviya University Technology Gorakhpur, India) |
| 1571095066 | Analyzing Trap Charge Impact in Dopant Hetero-Material TFET via Interface Engineering |
| | DipanshuKosre (NITRR, India); Bandi Venkata Chandan (National Institute of Technology, Raipur, India); Ajay Raghuvanshi (National Institute of Technology Raipur, India); Kaushal Kumar Nigam (National Institute of Technology, Raipur, India) |
| 1571088215 | Design and optimization of FinFET based Baugh-Wooley multiplier using PFAL |
| | NadakuditiGnashmika, K V L Manasa, Tenneti Sai Sasank and Shelja Kaushal (Vellore Institute of Technology, India) |
| 1571085486 | Optimized Channel Length and Off state current for InAs/Si Heterojunction TFET |
| | Mr. Mayank Sachan (National Institute of Technology Delhi); Wangkheirakpam Vandana Devi (National Institute of Technology Manipur, India); Dr. Manisha Bharati (National Institute of Technology, Delhi, India) |
| 1571096224 | Efficient Disease Diagnosis Platform: Multi-Model Solution for Early Health Condition Detection |
| | K Nisha (JIIT, Noida, Sector 62, Uttar Pradesh, India); Shruti Kalra and Ruby Beniwal (JIIT, India) |
| Session-1.2.2: Intelligent Computing and Machine Learning – III (VENUE G11) (Offline) | |
| Session Chair: Prof. Vinod Kumar Yadav | |
| Session Rapporteur: Dr. Ritu Raj, Session In-charge: Dr. Harish Bishwakarma | |
| 1571098930 | Intelligent Malware Detection Using Sentence Transformer and Hybrid Deep Learning Architecture |
| | Sanjeev Kumar (C-DAC Mohali, India); Yudhishtira Sapru (Indian Computer Emergency Response Team, India); SugandhaSapru (Panjab University, Chandigarh, India); B. Janet (National Institute of Technology, India) |
| 1571088845 | An Empirical study of Loss Functions for Aspect Category Detection in Imbalanced Data Scenario |
| | Nilanjana Das and Shahin Ara Begum (Assam University, Silchar, India) |
| 1571094996 | Corn disease severity estimation using U2Net based convolution neural network |
| | Sunil Bhardwaj (Nitttr Chandigarh sector 26, India & Punjab University, India); Meenakshi Sood (National Institute of Technical Teachers Training and Research, Chandigarh, India); Amod Kumar (NITTTR, Chandigarh, India) |
| 1571095166 | A comparative analysis of machine learning techniques for identification and categorization of dermatological disorders |
| | Tanya Shakya and Nikita Joshi (IMS Ghaziabad University Courses Campus, India) |
| 1571103123 | Cutting Edge Weapon Detection in Real-Time CCTV Videos |
| | Ajinkya Keshav Bamnolkar and Ashutosh Rajesh Gadge (GH Raison College of Engineering and Management, India); Kartik RamhariKhakre and Manisha G Waje (G H Raison College of Engineering and Management Pune, India); Vaishali Raut (Pune & GHRCEM, India); Mohd Salman Khan (JIIT Noida, India) |
| Session-1.2.3: Intelligent Computing and Machine Learning – IV (VENUE G12) (Offline) | |

| Session Chair: Prof. Arun Sharma | |
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| Session Rapporteur: Dr. Monika, Session In-charge: Dr. Sumit Mahajan | |
| 1571088821 | Predicting Stock Market Movements in Response to Global Events |
| | N H Shrinandh, Sanidhya Sharma, Shivram Mohan and Minakshi M Unnithan (Amrita Vishwa Vidyapeetham, India); S Lalitha (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, India) |
| 1571088720 | Cryptanalysis of RFID Based Authentication Scheme for IoT Environment |
| | Aarti Goel (Netaji Subhas University of Technology, India); Devender Kumar (NSUT, India); Deepak Kumar Sharma (Indira Gandhi Delhi Technical University for Women) |
| 1571100932 | Automated Weed Detection Using YOLOv8: A Deep Learning Approach for Indian Agriculture |
| | Somay Raj Singh (JSS Academy of Technical Education, Noida, India); Gayatri Sakya (JSS University Noida); Monika Malik (JSS ACADEMY OF TECHNICAL EDUCATION NOIDA & IIIT NOIDA, India); Chhaya Grover (JSS Academy of Technical Education, Noida, India) |
| 1571098463 | Advances in Negative Capacitance FinFET Technology: Insights into Design Innovations and Performance Enhancements |
| | Shubhda Kaushik and Rishu Chaujar (Delhi Technological University, India) |
| 1571098343 | A Review on Remote Patient Monitoring Systems |
| | Kunaal Das, Rahul Jathvani and Swati Vaid (Inderprastha Engineering College, India) |
| 1571100011 | Advancing Grammatical Error Correction for English Text: A Comparative Study of Bahdanau Attention and Multi-Head Attention Models |
| | Khushi Garg and Samarth Soni (IIIT, India); Richa Gupta (Jaypee Institute of Information Technology, NOIDA, India); Neetu Singh (Bobbie AI, India) |
| Session-1.2.4: VLSI Technology and Embedded Systems – II (Online Session – LT4) | |
| Session Chair: Prof. Manish Goswami | |
| Session Rapporteur: Dr. Ankur Gupta, Session In-charge: Dr. Piyush Sharma | |
| 1571100728 | Exploring Circuit Families for Optimizing 3×2 Multiplier: Design and Analyses |
| | Rohan Raj (Vellore Institute of Technology, India); Navaneeth M (Vellore Institute of Technology Vellore Tamil Nadu India, India); Satheesh Kumar S (Vellore Institute of Technology, India) |
| 1571098100 | Assistive System for Monitoring Malnutrition in Children |
| | Sushant Mannolkar (MS Ramaiah Institute of Technology, Bangalore, India); Sara Mohan George (M S Ramaiah Institute of Technology, India); Mannitha R, Navya P and Divanapu Prathibha Bharathi (MS Ramaiah Institute of Technology, Bangalore, India) |
| 1571068259 | Compressor-Based Approach for Power-Optimized Error-Tolerant High Accurate Approximate Multipliers Design and Implementation |
| | Mrs. Lakshmi Sowjanya Koneru (NIT WARANGAL, India & V r siddhartha engineering college (Deemed to be university), India), Shravya Manchala, Dr. Prakash Kodali |

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| 1571069002 | Optimised Power-Efficient Design of Approximate Multiplier using Approximate Compressor |
| | Lakshmi Sowjanya Koneru (NIT WARANGAL, India & V r siddhartha engineering college (Deemed to be university), India), Bodigam Chaithanya, Prakash Kodali |
| 1571098542 | Explainable AI in Credit Card Fraud Detection: SHAP and LIME for Machine Learning Models |
| | Chirumamilla Satya Keerthana (Indian Institute of Technology Kanpur, India); Siri Chadana Nalluri, Simrah Muskaan and Poorvie Sadagopan (Indian Institute of Technology, Kanpur, India) |
| 1571087145 | Design and optimization of efficient CNN hardware of digital number recognition for low power |
| | Prakash Kumar and Anshuj Jain (Rabindranath Tagore University, India); Laxmi Singh (Rabrindranath Tagore University, India) |
| Day 2: Friday, Feb 21, 2025 | |
| 09:00 A.M - 10:00 A.M. | Keynote Talk 3: Dr Manish Kumar Hooda, Director, Indian semiconductor Mission & Head, Technology, development, SCL, Chandigarh Director , Meity, India (Offline) VENUE: LT4 |
| 10:00 A.M - 10:15 A.M. | High Tea |
| 10:15 A.M - 11:15 A.M. | Keynote Talk 4: Prof. Ananjan Basu Professor, Centre for Applied Research in Electronics IIT Delhi (Offline) VENUE: LT4 |
| 11:15 A.M - 12:30P.M. | Technical Session 3 (* Highlighted author name is the presenter name) |
| | Session-2.1.1: VLSI Technology and Embedded Systems – III (VENUE G10) (Offline) |
| | Session Chair: Dr. Baljit Kaur |
| | Session Rapporteur:Dr.Manika Jha , Session In-charge: Mohd Salman Khan |
| 1571095076 | Design and Simulation of High Sensitivity AlGaIn/GaN Based MOS-HEMT Biosensor for Biomolecule Detection |
| | Rakesh Kumar (National Institute of Technology Raipur, India); Bandi Venkata Chandan and Kaushal Kumar Nigam (National Institute of Technology, Raipur, India); Ashish Kumar, Adil Tanveer and Hitesh Kumar (NIT Raipur, India) |
| 1571098949 | Study and Experimental Analysis of High-Performance Low-Power ALU using FinFET Device |
| | Rahul Kumar (National Institute of Technology, Delhi, India); Dhandapani Vaithiyanathan (National Institute of Technology Delhi, India); Jyoteesh Malhotra (National Institute of Technology, Delhi, India); Preeti Verma and Baljit Kaur (National Institute of Technology Delhi, India) |
| 1571100879 | Latch and Flip-Flop Design Using Memristors and Transmission Gates with Timer Counter Implementation |

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| | | Aditya Rayer , Mavulluru Ganesh and LaviTanwar (Delhi Technological University, India) |
| | 1571101301 | First-Order Current-Mode All-Pass Frequency Selective Circuit with Single DCCII and Minimal Component Count |
| | | Khushbu Bansal and Jitendra Mohan (Jaypee Institute of Information Technology, India); Bhartendu Chaturvedi (Jaypee Institute of Information Technology, Noida, UP, India) |
| | 1571101234 | An Efficient Automatic Car Parking Slot Allocation System |
| | | N Srivani, Prasanth A , K Srija and Chinthala Ramesh, Jayashree M. Oli (Amrita School of Engineering Amrita Vishwa Vidyapeetham Bengaluru, India); Jayashree M. Oli (Amrita School of Engineering, Bangalore, India) |
| | 1571095113 | Engineering Interfaces to Address Trap Charge Challenges in Dopant-Free TFET |
| | | Madhura Prashant Bakshi , Bandi Venkata Chandan and Kaushal Kumar Nigam (National Institute of Technology, Raipur, India); Ashish Kumar, Adil Tanveer and Ashok Vaddeswarapu (NIT Raipur, India) |
| | Session-2.1.2: Intelligent Computing and Machine Learning – V (VENUE G11) (Offline) | |
| | Session Chair: Dr. Shelly Sachdeva | |
| | Session Rapporteur: Dr. Aanchal Agarwal, Session In-charge: Ms. Vaishali Sharma | |
| | 1571101048 | Geneto-Neuro-Fuzzy Solution for Detection of Early Prostate Cancer |
| | | Duke Oghorodi (Delta State University of Science & Technology, Ozoro, Nigeria); Igulu Kingsley (Kenule Beeson Saro-Wiwa Polytechnic, Nigeria); Thipendra P Singh (Bennett University, Greater Noida, Uttar Pradesh, India); Edafe J. Atajeromavwo (Delta State Polytechnic, Ogwashi-uku, Nigeria); Wilson Nwankwo (Delta State University of Science & Technology, O, Nigeria) |
| | 1571094598 | Regional Analysis of Influential Meteorological Factors in Monthly Precipitation Forecasting Using Machine Learning |
| | | Vinita Sangwan and Rashmi Bhardwaj (Guru Gobind Singh Indraprastha University, Dwarka, Delhi, India) |
| | 1571101044 | An Intelligent Approach to Cost-effective Management of Typhoid Fever in Children |
| | | Kingsley T. Igulu (Kenule Beeson Saro-Wiwa Polytechnic, Nigeria); Thipendra P Singh (Bennett University, Greater Noida, Uttar Pradesh, India); Tosin C. Olayinka (Wellspring University, Benin City, Edo State, Nigeria); Ojei H. Onyijen (Ambrose Alli University Ekpoma, Nigeria); Edwin Onatuyeh (Delta State University of Science & Technology, Nigeria); Wilson Nwankwo (Delta State University of Science & Technology, O, Nigeria) |
| | 1571098127 | Comparative Analysis of Object Detection Accuracy in Diverse Background Conditions |
| | | Aparajita Sheoran (Jaypee Institute of Information Technology, India); Aman Tripathi (Jaypee Institute of Information Technology, Noida, India); Ankur Bhardwaj (Jaypee Institute of Information Technology Noida, India) |
| | 1571072046 | Predicting Daily Rainfall Amount Using Random Forest, Multivariate Linear Regression and Extreme Gradient Boosting |
| | | Barun Kumar, Punam Kumari and Ajit Kumar (Galgotias University Greater Noida, India); Sanjeev Kumar Prasad (Galgotias University, India) |
| | Session-2.1.3: Intelligent Computing and Machine Learning – VI (VENUE G12) (Offline) | |
| | Session Chair: Prof. Ashish Srivastava | |

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| | Session Rapporteur: Dr. Shivani, Session In-charge: Ms. Jyoti Deshwal Yadav | |
| | 1571100727 | Generative AI Meets IoT: A Bibliometric Mapping of Research and Development |
| | | Parneet Kaur (Chitkara University Punjab, India); Deepali Gupta (Chitkara University Institute of Engineering and Technology, India); Mudita Uppal (Chitkara University, India) |
| | 1571099395 | Real Time Machinery Health Detection Via Thermal Imaging |
| | | Jahiya Khan (Defence Institute of Advanced Technology, Girinagar, Pune, India); Manisha J Nene (Defence Institute of Advanced Technology, India) |
| | 1571095128 | Generating Avatar Using HamNoSys and SiGML for British Sign Language |
| | | Harshit Singh and Ashish Mishra (Jaypee Institute of Information Technology, India); Rahul Dubey (Madhav Institute of Technology and Science, India); Vipin Tiwari (Symbiosis Institute of Technology, Symbiosis International (Deemed) University, Pune., India) |
| | 1571098505 | Integrating Facial Image Data for Autism Identification: A Comparative Evaluation of Deep Learning Classifiers |
| | | Khushi Jindal (Indira Gandhi Delhi Technical University for Women, India); Jitendra Narayan (CSIR IGIB, India); D. K. Tayal (IGDTUW, India) |
| | 1571100954 | Dual mode Biquadratic fractional order filter using VDTA |
| | | Dhairya Vardhan (Bharat electronics limited, India); Sachin Nath Agarwal (Bharat Electronics Limited, India) |
| | Session-2.1.4: Communication– II (Online Session – LT4) | |
| | Session Chair: Prof. Basant Kumar | |
| | Session Rapporteur: Dr. Niraj Kumar, Session In-charge: Dr. Ajitkumar | |
| | 1571098078 | Enhanced Image Steganography using Customized Differences between the Neighboring Pixels |
| | | Maulana Alirridlo , Adifa Widyadhani Chanda D’Layla , Ntivuguruzwa Jean De La Croix and Tohari Ahmad (InstitutTeknologiSepuluhNopember, Indonesia) |
| | 1571098080 | Enhanced Data Hiding Based on First, Middle, and Last Order Pixel in Spatial Domain Images |
| | | Mr. Rahmad Hidayat (InstitutTeknologiSepuluhNopember, Indonesia & STAIN Sultan Abdurrahman Kepulauan Riau, Indonesia); Mrs. Adifa Widyadhani Chanda D’Layla , Mr. Ntivuguruzwa Jean De La Croix and Prof. Tohari Ahmad (InstitutTeknologiSepuluhNopember, Indonesia) |
| | 1571089205 | 5G Network Slicing Prediction Using Explainable Artificial Intelligence(X-AI) |
| | | MWP Maduranga (Sri Lanka Technology Campus Padukka, Sri Lanka); HKIS Lakmal (NSBM Green University Town, Sri Lanka); UdeshOruthota (Sri Lanka Technological Campus, Sri Lanka); Valmik Tilwari (Indian Institute of Information Technology, Guwahati, India); Debashree Sharma (Institute of Information Technology, Guwahati, India); SamiruGayan (University of Moratuwa, Sri Lanka) |
| | 1571100919 | Honeypot-Based Security System for Intrusion Detection and User Protection |
| | | Ms. Animela Niharika (Amrita Vishwa Vidyapeetham, India); Mr. Konapala Neehar Phani (Amrita Vishwa Vidyapeetham, Bengaluru, India); Mr. Kalagara Venkata Sampath Raj (Amrita Vishwa Vidyapeetham, India); Mr. Sagar |

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| | | Basavaraju (Amrita Vishwa Vidyapeetham, Amrita University, India) |
| | 1571098083 | Enhancing Data Security Through Double Steganography Approaches |
| | | Mr. Irfan Mirda , Mrs. Adifa Widyadhani Chanda D' Layla, Mr. Ntivuguruzwa Jean De La Croix and Prof. Tohari Ahmad (Institut Teknologi Sepuluh Nopember, Indonesia) |
| | 1571088464 | Neural Network-Based Evaluation of Energy Consumption across Diverse Zones |
| | | Manish Sehjihta (Jaypee University of Information Technology, India); Shruti Jain (Jaypee University of Information Technology, Wagnaghat, India) |
| 12:30 P.M - 01:45 A.M. | Technical Session 4 (* Highlighted author name is the presenter name) | |
| | Session-2.2.1: Communication – III (VENUE G10) (Offline) | |
| | Session Chair: Prof. Vineet Khandelwal | |
| | Session Rapporteur: Dr. Mohd Salman Khan, Session In-Charge: Dr. Divya Kaushik | |
| | 1571081246 | Study of RSSI and Throughput in Identical Residential Units with Various Wi-Fi Configurations |
| | | Varun Kumar (Indian Institute of Information Technology Vadodara, India); Sakshi Somani (Indian Institute of Information Technology, Vadodara, India); Hari Gopal Jarupla (IIIT vadodara, India) |
| | 1571086356 | A Wideband Polarization-Independent Metasurface Absorber using Vanadium Dioxide (VO₂) |
| | | Soumava Biswas and Sreejita Samanta (University of Calcutta, India); Ajeet Singh Verma (IIT BHU Varanasi, India); Somak Bhattacharyya (IIT (BHU), India) |
| | 1571099506 | Performance Evaluation of GSSMM and EISPA in Mobile Edge Computing Environment |
| | | Aryman Gupta and Akanksha Tandon (NIT Rourkela, India); Sanjeev Patel (National Institute of Technology Rourkela, India); Anil Saini (Bajaj Auto Limited Pune, India) |
| | 1571086353 | A polarisation insensitive broadband absorbing metasurface based on phase change material |
| | | Sreejita Samanta and Soumava Biswas (University of Calcutta, India); Ajeet Singh Verma (IIT BHU Varanasi, India); Somak Bhattacharyya (IIT (BHU), India) |
| | 1571095114 | HMSIW-Based MIMO Antenna with Enhanced Isolation for Advanced V2X Communication |
| | | Mr. Shaik Mahaboob Subani (Acharya Nagarjuna University, India); Dr. S Nagakishore Bhavanam (Mangalayatan University Jabalpur, India); Mrs. Vasujadevi Midasala (JNTUA, India); Dr. M. Gopi Krishna (Acharya Nagarjuna University, India) |
| | 1571100962 | V2I communication coverage analysis for VANET: A case study for city of Bengaluru, India |
| | | Mr. Suyash Sharma and Dr. Satish S. Bhojannawar (KLE Technological University, India) |
| | Session-2.2.2: Signal Processing – II (VENUE G11) (Offline) | |
| | Session Chair: Prof. Vivek Dwivedi | |
| | Session Rapporteur: Ms. Vaishali Sharma, Session In-charge: Dr. Nitin Muchhal | |

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| 1571101047 | Functional Connectivity and Power Spectral Density Analysis of EEG Signals in Meditation |
| | Sahil Attri and RajashriKhanai (KLE Technological University, India) |
| 1571088479 | Automated snoring detection system using synchrosqueezed wavelet transform |
| | DhanhanjayPachori, Ardhish Kunal Patel and Tapan Kumar Jain (Indian Institute of Information Technology, Nagpur, India) |
| 1571095078 | Automated classification of snoring and non-snoring sound signals based on singular superlet transform |
| | DhanhanjayPachori , Kamal Raj and Tapan Kumar Jain (Indian Institute of Information Technology, Nagpur, India) |
| 1571088443 | Skin Cancer Classifier: Performance Enhancement using Deep Learning Models |
| | Swati Mishra (JAYPEE Institute of Information and Technology, NOIDA, India & JSS Academy of Technical Education NOIDA, India); Megha Agarwal (Jaypee Institute of Information Technology, India) |
| Session-2.2.3: Intelligent Computing and Machine Learning – VII (VENUE G12) (Offline) | |
| Session Chair: Prof. Thipendra P Singh | |
| Session Rapporteur: Ms. Jyoti Deshwal Yadav, Session In-charge: Dr. Rahul Kumar | |
| 1571101002 | Advancing Blockchain-Based Systems to Enhance Security and Privacy in Healthcare Data Management Practices |
| | MonaliGulhane (University of Nagpur, India); Nitin Rakesh (Symbiosis Institute of Technology Nagpur, India & SIT Nagpur, India); Saurav Dixit (Centre of Research Impact and Outcome Chitkara University, India); Rashmi Sharma (Symbiosis Institute of Technology, Nagpur, India & Symbiosis International University, Pune, India); Sandeep Kumar (SR University, India) |
| 1571094222 | Analyzing the Efficacy of Machine Learning Models towards Forecasting the Influence Spread of Nodes in Complex Networks |
| | Megh Singhal and Bhawna Saxena (Jaypee Institute of Information Technology, Noida, India) |
| 1571101026 | 'Predicting Customer Churn Rate using Machine Learning |
| | Deep Raut (Symbiosis Institute of Technology Nagpur Campus Symbiosis International, India); Arya Nimje and DevanshuBhagwatkar (Symbiosis Institute of Technology, Nagpur Campus, India); (Symbiosis Institute of Technology Nagpur, India & SIT Nagpur, India); Rashmi Sharma (Symbiosis Institute of Technology, Nagpur, India & Symbiosis International University, Pune, India); MonaliGulhane (University of Nagpur, India) |
| Session-2.2.4: Intelligent Computing and Machine Learning - VIII (Online Session – LT4) | |
| Session Chair: Prof. Jasmine Saini | |
| Session Rapporteur: Dr. Ajit kumar, Session In-charge: Dr. Prabhakar Jha | |
| 1571099137 | Deep Learning for Facial Emotion Recognition: Insights from EmoNet |

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| | G. Vallathan (Geethanjali College of Engineering and Technology, India); SenthilkumarMeyyappan (NallaMalla Reddy Engineering College, India); M. Raman Kumar (NallaMalla Reddy Engineering College, India & JNTU Hyderabad, India); M. Gowthami (Vinayaka Missions KirupanandaVariyar Arts and Science College Vinayaka Missions, India) |
| 1571098553 | AI-Driven Real-Time Exercise Repetition Counting System |
| | Ratan Lal , Rikriti Koirala, Sai Swathi Thota and Khaja Nayab Rasool Shaik (Northwest Missouri State University, USA) |
| 1571093666 | Formation of Use Case Scenario Based on Use Case Diagram Using Text Semantics for IdVar4CL Application Development |
| | Maritza Amalia IkaLaksana , YudiPriyadi and Yanuar Firdaus Arie Wibowo (Telkom University, Indonesia) |
| 1571101214 | Challenges in Infrared Small-Target Detection: A Benchmark of YOLO Models on UAV and Bird Infrared Imagery |
| | Swapnil Shahapurkar, Pratiksha Angadi , Chandni Kumari, Prashant Uppar and Prema T. Akkasaligar (KLE Technological University, India) |
| 1571093669 | Functional and Non-Functional Requirement (FR and NFR) Formation Based on Requirement Elicitation Using Text Semantics in IdVar4CL Artifact |
| | NaylaFatimatuzzahra and YudiPriyadi (Telkom University, Indonesia); Rio Nurtantyana (National Research and Innovation Agency, Indonesia & Telkom University, Indonesia) |
| 1571088768 | Classification of 3D Dynamic Contrast Enhanced Breast Tumor MRI Images Using CNN |
| | Anjana Divakaran , J. Glory. Precious and S.P. Angeline Kirubha (SRM Institute of Science and Technology, India) |
| 01:45 P.M-02:30 P.M. | LUNCH |
| 02:30 P.M - 04:00 P.M. | Technical Session 5 (* Highlighted author name is the presenter name) |
| | Session-2.3.1: Communication –IV (VENUE G10) (Offline) |
| | Session Chair: Prof. Sandeep K Singh |
| | Session Rapporteur:Dr. Divya Kaushik, Session In-charge: Dr. Manika Jha |
| 1571101185 | Blockchain Enabled Data Communication Scheme for Vehicular Named Data Networks' |
| | Anu Kaushik , and Rasmeet S Bali (Chandigarh University, India) |
| 1571093305 | Quantum Polarization in Two-Mode Generalized Binomial State |
| | Anjali Jatwani and Amit Verma (Jaypee Institute of Information Technology, Noida, India) |
| 1571088809 | Design and Performance Analysis of a 16-Channel DWDM RoF System Using 112 Gbps Coherent DP-QPSK Modulation |
| | Ms. Priyanka Thakur and Dr. Manisha Bharati (National Institute of Technology, Delhi, India) |

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| 1571060519 | Statistical Analysis and Unsupervised Clustering of Faults in Grid-Connected Solar PV Systems Using K-Means |
| | Vinay Singh and Ruby Beniwal (Jaypee Institute of Information Technology, India) |
| 1571095117 | Leveraging Machine Learning for Predicting Molecular Refractivity in Drug Toxicology |
| | Saloni Joshi and Reema Gabrani (Jaypee Institute of Information Technology, India); Ruby Beniwal (JIIT, India) |
| 1571100755 | Performance Enhancement of IRS-assisted Communication Systems Under Rayleigh Fading Channels |
| | Ravneet Chawla (Jaypee Institute of Information Technology, India); Bajrang Bansal (Jaypee Institute of Information Technology, Noida, India) |
| Session-2.3.2: VLSI Technology and Embedded Systems – IV (VENUE G11) (Offline) | |
| Session Chair: Prof. R. K. Dwivedi | |
| Session Rapporteur: Dr. Nitin Muchhal, Session In-charge: Dr. Aanchal Agarwal | |
| 1571098955 | A Study On Thickness Optimization And Variation In Lead Free Perovskite CH₃NH₃SnBr₃ |
| | Aryan Sharma and Atul Srivastava (Jaypee Institute of Information Technology, India) |
| 1571098547 | Tuning of Piezoelectric Energy Harvester for Self Powered Pacemaker Application |
| | Ojas Chauhan and Shradha Saxena (Jaypee Institute of Information Technology, Noida, India) |
| 1571064308 | Temperature Sensitivity Analysis of Electrically Doped GaSb/GaAs Heterojunction TFET |
| | Priyanka Kwatra (Jaypee Institute of Information Technology, India); Vinay Anand Tikkiwal (JIIT, Noida & ECE, India); Mukesh Kumar Bind (Jaypee Institute of Information Technology, Noida, India); Dharuv Verma and Jatin Pathak (Jaypee Institute of Information Technology Noida, India) |
| 1571096245 | Beyond Limits: Machine Learning Driven Reliability Forecasting for Nanoscale ULSI Circuits |
| | Karan Singh (Jaypee Institute of Information Technology, India); Shruti Kalra (JIIT, India) |
| 1571096238 | Reliability-Aware Machine Learning Prediction for Multi-Cycle Long-Term PMOS NBTI Degradation in Robust Nanometer ULSI Digital Circuit Design |
| | Karan Singh (Jaypee Institute of Information Technology, India); Shruti Kalra (JIIT, India) |
| 1571064367 | Sensitivity Analysis of a Polarity-Controlled Tunnel Field-Effect Transistor-based Biosensor |
| | Mukesh Kumar Bind (Jaypee Institute of Information Technology, Noida, U.P., India); Sajaivir Singh (Jaypee Institute of Information Technology, Noida, U. P., India); Kaushal Kumar Nigam (National Institute of Technology, Raipur, Chhattisgarh, India) |
| Session-2.3.3: VLSI Technology and Embedded Systems – V (VENUE G12) (Offline) | |

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| Session Chair: Prof. Jitendra Mohan | |
| Session Rapporteur: Dr. Rahul Kumar, Session In-charge: Dr. Shivani | |
| 1571095045 | CapsNet-Based Deep Learning Approach for Robust Image Forgery Detection |
| | Deepak Joshi (Jaypee Institute of Information Technology, Noida, India); Abhishek Kashyap (Jaypee Institute of Information Technology, India); Parul Arora (JIIT, India) |
| 1571099688 | Exploring SRAM Layout Using Open-Source Tools: A Case Study with Skywater 130nm PDK, Magic, Xschem, ngSpice, and OpenRAM |
| | Om Bhatt , Darshana Sankhe , Avinash More (NMIMS, India) |
| 1571088756 | Progressive Use of IoT and 5G network-based systems post COVID-19 pandemic |
| | Vishwajeet Vishwajeet (Sharda University, Greater Noida, India); Pallavi Gupta (Sharda University, India); Arvind Kumar (Sharda University Greater Noida, India); Ayushi Singh (Dayalbagh Educational Institute, India) |
| 1571088766 | Use of AI/ML-based systems in healthcare domain in reference with COVID-19 pandemic |
| | Ayushi Singh (Dayalbagh Educational Institute, India); Vishwajeet (Sharda University, Greater Noida, India) |
| 1571095011 | Implementation of High Speed Cascode Cross -Coupled Stage Comparator in CMOS Technology |
| | Ms. Nishi Pandey (Rabindranath Tagore University, India); Dr. Laxmi Singh (Rabindranath Tagore University, India); Abhishek Agwekar |
| Session-2.3.4: Signal Processing -III – (Online Session – LT4) | |
| Session Chair: Dr. Vipin Balyan | |
| Session Rapporteur: Dr. Prabhakar Jha, Session In-charge: Dr. Niraj Kumar | |
| 1571100783 | Binarization in DeepFake Audio Detection: A Comparative Study and Performance Analysis |
| | Saliq Gowhar and Atul Pandey (National Institute of Technology Karnataka, India); Bhawana Rudra (National Institute of Technology Karnataka, Surathkal, India) |
| 1571098516 | Adaptive CEEMD-SVD Joint Denoising Algorithm via Aquila Optimization in FMCW Radar |
| | Jiixin Cao , Huiyue Yi , Wuxiong Zhang and Hui Xu (Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, Shanghai, China) |
| 1571094966 | Adaptive Logistic Regression Leveraging Arctan in Active Learning |
| | Sananda Kumar (KIIT University, India) |
| 1571076535 | A Sigmoid Filter Proportionate Normalized LMS Algorithm for Sparse Systems |
| | Deepak Kumar Rout (KIIT University, Bhubaneswar, India); Ansuman Patnaik , Mrs Rosalin and Satish Kumar Gannamaneni (KIIT University, India) |
| 1571083977 | Multi-Hop Satellite Communications Link Analysis in the South Pacific Region |

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| | | Donaldson Liu (Fiji National University, Fiji); SairusiKorodrauNaivaluwaqa (Fiji International Telecommunications Ltd, Fiji); Beбето Merak (Fiji National University, Fiji); DeshvinDavnit (Chand, Fiji); Satyanand Singh, Sr. (Fiji National University, Fiji & Electronics, Instrumentation and Control Engineering, Fiji); JIuliasiUluiburotu (Fiji National University, Fiji) |
| | 1571101178 | Vidhya: A Virtual Tutor for Enhancing English Education in Rural Areas of India |
| | | Sruthy Anand and Kasa Amareswar Reddy (Amrita Vishwa Vidyapeetham, India); Pitti Abhiram Reddy (Amrita vishwavidyapeetham, India); Chandolu Shanmukha Srinivas (Amrita Vishwavidyapeetham, India); Sethuraman N Rao (Amrita Vishwa Vidyapeetham, India) |
| | Session-2.3.5: Machine Learning-I (Online Session – LT5) | |
| | Session Chair: Prof. Dheeraj Palwalia | |
| | Session Rapporteur: Dr. Piyush Sharma, Session In-charge: Ms. Amrita Kaul | |
| | 1571101196 | A Printed E-Shaped Monopole Patch Antenna for ISM Band-I (2.4 GHz) & 6G Communication (7-20 GHz) |
| | | Piyush Kumar Jha , Amit Abhishek, and Priyadarshi Suraj (Birla Institute of Technology, Mesra, India) |
| | 1571098116 | Campus Network Design Using Cisco Packet Tracer |
| | | Buddolla Nandeeshwar (Nalla Narasimha Reddy Education Society's Group of Institutions, India); Kattikola Swapna and Balli Gagan (Nalla Narasimha Reddy Educational Society's Group of Institutions, India), Alampally Aravind, Bolimera Ravi |
| | 1571099786 | Altered Attentional Network Dynamics in Temporal Lobe Epilepsy: A MEG-Based Analysis |
| | | Suhas M V (Manipal Institute of Technology, India); Mariyappa N (NIMHANS, India); Anitha H (Manipal Institute of Technology, India); Sanjib Sinha (NIMHANS, India); KarunakarKotegar (Manipal University, India); Ravindranadh M Chowdary, Raghavendra K, Ajay Asranna and Viswanathan L.G (NIMHANS, India) |
| | 1571087507 | A Comparative Analysis Of Deep Learning Techniques For Face Mask Detection System In Nuclear Power Plant |
| | | Satya Ranjan Panda, Anuradha Rani Choudhury and Ashis Kumar Mishra (OUTR , Bhubaneswar, India) |
| | 1571100800 | Enhancing Lung Cancer Detection by Leveraging Machine Learning Algorithms |
| | | Anuradha Rani Choudhury , Satya Ranjan Panda, Ashis Kumar Mishra and JyotirumayeeRoutray (OUTR , Bhubaneswar, India) |
| | 1571097232 | Highly Birefringent Terahertz PCF Using Epsilon-Near-Zero (ENZ) Material for Polarization Maintaining Applications |
| | | Ms. A. Alice Linsie , Ms (SRM Institute of Science and Technology, Ramapuram, India); Shyamal Mondal (Defense Institute of Advanced Technology, Girinagar, Pune, Maharashtra, India); Shanthi Prince (Department of Electronics and Communication Engineering ,SRM Institute of Engineering and Technology) |
| 04:00 P.M - 04:15 P.M. | Tea | |
| 05:30 P.M - 06:30 P.M. | Keynote Talk 5: Prof. Ravinder Dahiya Professor, Department Electrical and Computer Engineering | |

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| | Bendable Electronics & Sustainable Technologies (BEST) Gp., Northeastern University College of Engineering, 360 Huntington Ave Boston, MA 02115, USA (Online) VENUE: LT4 | |
| Day 3: Saturday, Feb 22, 2025 | | |
| 09:00 A.M - 10:15 A.M. | Technical Session 6 (* Highlighted author name is the presenter name) | |
| | Session-3.1.1: Communication -V (VENUE G10) (Offline) | |
| | Session Chair: Dr. Abhinav Gupta | |
| | Session Rapporteur: Ms. Vaishali Sharma, Session In-charge: Mr. B. Suresh | |
| | 1571094997 | Enhancing Non-Orthogonal Multiple Access with Practical Successive Interference Cancellation: A MIMO Approach with Interference-Predicted MMSE Techniques |
| | | Mr. Neeraj Dwivedi (Amity University, LUCKNOW, India); Dr. Sachin Kumar (Amity University Lucknow Campus (UP) India, India); Sudeep Tanwar (Nirma University & Institute of Technology, India); Dr. Sudhanshu Tyagi (Thapar Institute of Engineering & Technology, Deemed University, Patiala, India) |
| | 1571100866 | Probe Based SIW Microwave Sensor for Detection of Adulteration in Mustard Oil |
| | | Abhay Kumar (Jaypee Institute of Information Technology Noida, India); Nitin Muchhal (Jaypee Institute of Information Technology Noida); Nidhi Tewari (Jaypee Institute of Information and Technology, India) |
| | 1571099800 | Performance Analysis of Interference Limited Hybrid RF/FSO Satellite-Terrestrial Networks |
| | | Abhijeet Upadhya (Jaypee Institute of Information Technology Noida, India); Anu Goel (NSUT East Campus (Formerly AIACTR), Affiliated to GGSIPU, India) |
| | 1571096573 | Downlink Throughput, SINR & Coverage Analysis in Urban Scenario for LTE & mmWave 5G NR MIMO |
| | | Ms. Swarnima Jain, Mr. Goutam Kumar , Mr. Anhad Markan and Dr. C M Markan (Dayalbagh Educational Institute, India) |
| | Session-3.1.2: VLSI Technology and Embedded Systems – VI (VENUE G11) (Offline) | |
| | Session Chair: Prof. Arti Noor | |
| | Session Rapporteur: Ms. Jyoti Deshwal Yadav, Session In-charge: Ms. Amrita Kaul | |
| | 1571101191 | Sensitivity analysis of Dielectric Modulated Dual Gate Gallium Nitride Junctionless Accumulation Mode Nanowire FET based Biosensor |
| | | Anupama , Sonam Rewari and Neeta Pandey (Delhi Technological University, India) |
| | 1571095077 | Temperature-Dependent Sensing Properties of SOI-SDG-FinFET for Chemical Detection |
| | | Ajay Kumar Singh (NITRR, India); Bandi Venkata Chandan and Kaushal Kumar Nigam (National Institute of Technology, Raipur, India); Ashish Kumar and Adil Tanveer (NIT Raipur, India); Dharmender N (GLBITM, India) |

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| 1571086524 | Multiplexer SRAM Combination-Based Design of Multiple Combinational Gates for In-Memory Computation' |
| | Mohit Gupta , Ravi S Siddanath and Nishant Dwivedi (IIIT ALLAHABAD, India); Nitish Kumar (Indian Institute of Information Technology, Allahabad, India); KavindraKandpal (Indian Institute of Information Technology Allahabad, Prayagraj, India); Manish Goswami (Indian Institute of Information Technology, India) |
| 1571100914 | Subthreshold Performance Comparison of Doped and H-Cu Carbon Interconnects |
| | Ramneek Sidhu (Chandigarh University, India); Mayank Kumar Rai (Thapar Institute of Engineering and Technology, India) |
| 1571101166 | Developing Predictive Models and GUI for Area & Power Estimation of PISO Shift Register for FPGAs |
| | Radhika Gupta (Ajay Kumar Garg Engineering College, Ghaziabad - Uttar Pradesh, India); Priti Kumari (A.P.J. Abdul Kalam Technical University, Lucknow - Uttar Pradesh, India); Rashi Jaiswal (A.P.J. Kalam Technical University, Lucknow - Uttar Pradesh, India); Tukur Gupta (Ajay Kumar Garg Engineering College Ghaziabad, India) |
| Session-3.1.3: Intelligent Computing and Machine Learning – IX (Online Session – LT4) | |
| Session Chair: Prof. Bhaskar Gupta | |
| Session Rapporteur: Dr. Ajitkumar, Session In-charge: Ms. Bhuvaneshwari S. | |
| 1571086378 | Next-Generation Bug Reporting: Enhancing Development with AI Automation |
| | Avinash Patil (Juniper Networks, USA); Aryan Jadon (Juniper Networks Inc, USA) |
| 1571097741 | Intelligent Human Behaviour Detection Leveraging ConvLSTM and LRCN Deep Learning Approaches |
| | S Chakradhar Amingad , Harika Janmanchi, Mohammed Sultan, K Shalini, S Hariharan and Bhanu Prakash Maddala (Vardhaman College of Engineering, India) |
| 1571098184 | Evaluating Machine Learning Algorithms for Effective Credit Card Fraud Detection |
| | Parth Saxena (Independent Researcher, Houston, Texas, USA) |
| 1571100926 | Evaluating Machine Learning Algorithms with Feature Selection for Cybersecurity: A Case Study on Pegasus Spyware |
| | Kakarlapudi Amit (Amrita Vishwa Vidyapeetham University, India & Amrita Vishwa Vidyapeetham, India); Gorle Sri Sai Sravya (Amrita Vishwa Vidyapeetham, India); Kurukundu Dhanush Sai (Amrita Vidhya Vidyapeetham, India); Sagar Basavaraju (Amrita Vishwa Vidyapeetham, Amrita University, India) |
| 1571098518 | Leveraging Machine Learning for Fraud Identification in International Shipping |
| | Rahul Jaiswal (University of Agder, Norway); Anu Priya (Notion, India) |
| 1571088792 | Smart Gym Assistant: Posture Monitoring and Rep Counting |
| | Lalitha Sreeram (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, India); Arya Jayasankar , Krishnendu M Uday and Ishaan Shokeen (Amrita Vishwa Vidyapeetham, India) |

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| 1571098261 | A Scalable Framework for IoT Applications in Cloud Environments |
| | Tushar Gupta and Shirin Bhambhani (Senior IEEE Member, USA) |
| Session-3.1.4: Machine Learning-II(Online Session – G13) | |
| Session Chair: Prof. Nidhi Goel | |
| Session Rapporteur: Dr. Aanchal Agarwal, Session In-charge: Dr. Divya Kaushik | |
| 1571087842 | Blockchain Beyond Cryptocurrency: Exploring the Revolutionary Potential of Decentralized Ledgers in Supply Chain Management, Healthcare, and Governance |
| | Reepu (Chandigarh University, India) |
| 1571101088 | Exploring Artificial Intelligence Techniques for Enhanced Accuracy in Medical Imaging and Early Disease Diagnosis |
| | Sandeep Kumar (SR University, India); Monali Gulhane (University of Nagpur, India); Pratik Agrawal (Symbiosis Institute of Technology NAGPUR, India); Nitin Rakesh (Symbiosis Institute of Technology Nagpur, India & SIT Nagpur, India); Saurabh Bhattacharya (Galgotias University Greater Noida, India) |
| 1571095088 | Unmanned Aerial Vehicle (UAV) Types, Sensors, Control & Applications: A Review |
| | MunishPatial (Jaypee University of Information Technology Waknaghat, India); Rajiv Kumar (JUIT, India); M J Nigam (RIT Roorkee, India) |
| 1571094984 | Wearable Triple Band Dual Polarization Antenna for Body Area Networks |
| | Kamisetti Sasank (IIT, Visakhapatnam, India); Deepak Ram (IIT (BHU), Varanasi, India); Kalyani Kandiraju (Sai Vidya IIT, Bangalore, India); Somak Bhattacharyya (IIT (BHU) , Varanasi, India) |
| 1571101077 | A Comprehensive Machine Learning Model for Kidney Stone Prediction |
| | Ankita Tiwari (College of Engineering KoneruLakshmaiah Education Foundation, India); Monali Gulhane (University of Nagpur, India); Nitin Rakesh (Symbiosis Institute of Technology Nagpur, India & SIT Nagpur, India); Pratik Agrawal (Symbiosis Institute of Technology NAGPUR, India); Saurabh Bhattacharya (Galgotias University Greater Noida, India); Sandeep Kumar (SR University, India) |
| 10:15 A.M - 10:30 A.M. | Tea |
| 10:30 A.M - 11:15 A.M. | Keynote Talk 6: Dr. Surya Bhattacharya Director of System in Package (SiP) at A*STAR Institute of Microelectronics (IME), Singapore (Online) VENUE: LT4 |
| 11:15A.M - 12:30 P.M. | Technical Session 7 (* Highlighted author name is the presenter name) |
| | Session-3.2.1: Women in Engineering – I (VENUE G10)(Offline) |
| | Session Chair: Dr. Richa Gupta |
| | Session Rapporteur: Mr. B. Suresh, Session In-charge: Dr. Ankur Gupta |
| 1571100976 | Advancements in Automated Segmentation Techniques for Endometrial Cancer : A Comprehensive Review |
| | Kirti Aggarwal, Aastha Singhal, Sakshi Singh and Najme Zehra Naqvi (Indira Gandhi Delhi Technical University for Women, India) |
| 1571099487 | Transfer Learning based Fusion of CT and MR Images |
| | Pragya Gupta (Jaypee University of Information Technology, India); Nishant Jain (JUIT, India) |

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| 1571101032 | Intelligent obstacle detection and classification for visually impaired individual |
| | Harsh Raj Singh Solanki (G H Raisoni College of Engineering and Management, PUNE, India); BhagyashriKalidasBirajdar (G H Raisoni College of Engineering and Management Pune, India); Aniket SampatRaykar and Rupali Bapurao Patil (G H Raisoni College of Engineering and Management, India) |
| 1571101159 | Assessment of a Metal-Strip on Stack Gate Oxide Underlap TFET for Improvement of Analog/RF and Linearity Performance |
| | Priyanka Verma (JIIT, Noida, India); Satyendra Kumar (JIIT NOIDA, India) |
| Session-3.2.2: Industrial Application – I (VENUE G11) (Offline) | |
| Session Chair: Dr. Pushendra Kumar | |
| Session Rapporteur: Ms. Amrita Kaul, Session In-charge: Dr. Himani Gupta | |
| 1571082935 | An improved modified adaptive PNGV model for electric vehicle battery performance & charge stability |
| | Ravish Yadav , Munish Manas and Rajesh Kumar Dubey (dept. of Electrical Engineering, Central University of Haryana Mahendragarh-123031, Haryana India) |
| 1571097535 | Optimal Dispatch Strategy for Roof Top Solar PV-Based EV Charging Stations |
| | Rishabh Mishra (Rajkiya Engineering College Ambedkar Nagar, India); Mohammed Aslam Husain and Yudhishtir Pandey (Rajkiya Engineering College, Ambedkar Nagar UP, India); Asif Khan (Integral University, UP, India); Alka Agrawal (Babasaheb Bhimrao Ambedkar University, India); Shivam Mishra (Rajkiya Engineering College, Ambedkar Nagar, India) |
| 1571100754 | A Quantum-Enhanced Semantic Communication Framework for Securing Military Health IoT Data |
| | Anmol Agrawal (IIIT, Naya Raipur, India); Rishabh Verma (IIIT Naya Raipur, India); Amar Sinha (IIIT, Naya Raipur, India) |
| 1571088694 | Automated Power Quality Assessment Using IEVDHM Technique |
| | Vaibhav Mishra (Analog Devices India, India & Analog Device India, India); Vivek Kumar Singh and Ram Bilas Pachori (Indian Institute of Technology Indore, India) |
| 1571085856 | Fabrication and Characterization Glass/AZO/Ag Ultraviolet Photodetector |
| | Rishibrind Kumar Upadhyay (Jaypee Institute of Information Technology, Noida, India); Shivani Sharma (Jaypee Institute of Information Technology Noida, India) |
| 1571086414 | Optimizing Brain Tumor Classification Using YOLOv8: A Comparative Study with CNN Architectures on MRI Scans |
| | Srishti Verma (Amity University, India); Alakto Choudhury (Amity Institute of Biotechnology, India); Priyanka Narad (Indian Council of Medical Research, India); Abhishek Sengupta (Amity Institute of Biotechnology, India) |
| Session-3.2.3: Technology for Humanity – I (VENUE G12) (Offline) | |
| Session Chair: Prof. Virendra P. Vishwakarma | |
| Session Rapporteur:Ms. Bhuvaneshwari S., Session In-charge: Dr. Harish Bishwakarma | |
| 1571097917 | Neurological responses to meditation with EEG analysis using novel empirical Fourier-Bessel decomposition approach |

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| | Ashok Mahato (Indian Institute of Technology Indore, India); Shailesh Bhalerao (Maharashtra, India); Ram Bilas Pachori (Indian Institute of Technology Indore, India); Vikram M. Gadre (IIT Bombay, India); Dipika Das Mahapatra (Research Scientist, India) |
| 1571093681 | Leveraging Machine Learning for Biomarker Discovery and Risk Prediction in Autoimmune Disease Genetics |
| | Jatin Mehta (University Institute of Engineering, India & Chandigarh University, India), Ishdeep Singla, Tarush Mehra, Hardik Garg, Narinder Yadav and Ashok Kumar Goyal |
| 1571100946 | Simulation-Based Sensitivity Analysis of GaAs/GaSb Heterojunction Polarity-Controlled TFET for Biosensing Applications |
| | Mukesh Kumar Bind (Jaypee Institute of Information Technology, Noida, India); Priyanka Kwatra (Jaypee Institute of Information Technology, India); Vinay Anand Tikkiwal (JIIT, Noida & ECE, India); Sajavir Singh (JIIT, Noida, India); Kaushal Kumar Nigam (NIT Raipur, India) |
| Session-3.2.4: Technology for Humanity-II(Online Session – LT4) | |
| Session Chair: Dr. Satyanand Singh | |
| Session Rapporteur: Dr. Manika Jha, Session In-charge: Dr. Madhu Jain | |
| 1571100556 | A Novel Neuro Fuzzy Deep Random Vector Functional Link Network for Early Cancer Diagnosis using Thermography |
| | Swapna Davies (Rajagiri School of Engineering and Technology, India & APJ Abdul Kalam Technological University, India); Jaison Jacob (Rajagiri School of Engineering Technology, India & APJ Abdul Kalam Technological University, India) |
| 1571094292 | Population Nutrition-Driven Crop Recommendations: Addressing Regional Micronutrient Deficiencies for Improved Public Health |
| | P. Seshanth Vishal , Prabina Subedi, Sri Ramya Divakarla and Avula Harini (Amrita Vishwa Vidyapeetham, India); Lalitha S (Amrita Vishwa Vidyapeetham & Amrita School of Engineering, India) |
| 1571100547 | Exploratory Data Analysis and Machine Learning Classification of Chronic Kidney Disease: Insights into Causes and Complications |
| | Abhay Patil (KLE M.S. Sheshagiri College of Engineering and Technology Belagavi, India); Priyanka Gavade; Akash Halli; Swapnil Laxman Shahapurkar |
| 1571100557 | Pneumonia and tuberculosis classification from chest x-ray images through composite features and ensemble learning' |
| | Rathod Dharmesh Ishwerlal and Reshu Agarwal (Amity University Noida, India); K S Sujatha (JSS Academy of Technical Education, India) |
| 1571089246 | Performance Comparison of K-SVD, Discriminative K-SVD, and Approximate K-SVD Dictionary Learning Algorithms for Public Road Type Recognition |
| | Ashwin Rai (Deloitte, India); Pubali De (Institute of Engineering and Management, UEM Kolkata, India & Jadavpur University, India); Saibal Ghosh (Jadavpur University, India); Pritam Paral (IEST, Shibpur, India); Amitava Chatterjee (Jadavpur University, India) |
| 1571094603 | Advanced Sleep Stage Classification Through a Convolutional Recurrent Attention-Based Neural Network Model |

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| | Sebastian Urbina Fredes and Ali DehghanFiroozabadi (Universidad Tecnológica Metropolitana, Chile); Pablo Adasme (University of Santiago de Chile, Chile); David Zabala-Blanco (Universidad Católica del Maule, Chile); Pablo Palacios Játiva (Universidad Diego Portales, Chile); Cesar Azurdia (Universidad de Chile, Chile) |
| Session-3.2.5: Communication – VI (Online Session – LT5) | |
| Session Chair: Prof. D. S. Saini | |
| Session Rapporteur: Dr. Shivani, Session In-charge: Dr. Ritu Raj | |
| 1571098933 | Unveiling the Shadows: DarkNET Traffic Detection Using Deep Learning Techniques |
| | Naors Y Anad Alsaleem and Samah Fakhri Aziz (University of Al-hamdaniya, Iraq) |
| 1571087442 | Deep learning Based Enhanced Approximate Message Passing for mmWave Massive MIMO Channel Estimation |
| | Anusaya Swain (NIT ROURKELA, India); Athira K (National Institute of Technology Rourkela, India); Shrishail M Hiremath (NIT Rourkela & Communication and Networks, India); Sarat Kumar Patra (National Institute of Technology, Rourkela, India) |
| 1571098122 | Decentralized Security Architecture for Health IoT Leveraging TGA and ANN |
| | Rahul Jaywantrao Shimpi and Vibha Tiwari (Medicaps University, India) |
| 1571073564 | Advanced Strategies for Mitigating Anomalies in Vehicular Ad-Hoc Networks (VANETs) |
| | Thuvva Anjali (Amity University, India); Rajeev Goyal (Amity School of Engineering and Technology, India); Balaji G.N (Vellore University, India) |
| 1571097868 | Applying the Multifractal Model of Asset Returns (MMAR) to Financial Markets: Insights and Limitations |
| | Srinivas R. Gottimukkala (Deere & Company, USA) |
| 1571101186 | Smart parking and automation based system as dynamic approach |
| | K. Sherin, A.R. Darshika Kelin, Hains Immanuel Vaiz J (Anna university, India); Bharath B (Anna University, India) |
| 12:30 P.M - 01:15P.M. | Keynote 7: Prof. Ramesh Bansal, Professor, Department of Electrical Engineering, University of Sharjah, University City, Sharjah, P.O. Box 27272, UAE (Online) VENUE LT4 |
| 01:15P.M.- 01:45P.M | Valedictory Session (Offline) VENUE: LT4 |
| 01:45P.M onwards | LUNCH |