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257	<b>Anatomizing Electrocardiogram Using Fractal Features and GUI Based Detection of P and T Waves</b> Balambigai Subramanian and K. Ramya (Kongu Engineering College, India); R. Asokan (Kongunadu College of Engineering and Technology, India)	469
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<b>Chair(s)</b>	<b>B. S. Sreeja</b> , Associate Professor, Department of ECE, SSN College of Engineering

<b>29750</b>	<b>Statistical Analysis of Blocking Probability for Dynamic Traffic in WDM Optical Networks Based on Erlang B Model</b> Rakesh Kumar Maurya, Jaisingh Thangaraj and Vishnu Priye (Indian School of Mines, India)	520
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<b>29276</b>	<b>Design of Enhanced Pseudo-Random Sequence Generator usable in GSM Communication</b> Pankaj, Asit Kumar Sing and Bhupendra Singh Bora (Indian School of Mines, India)	530
<b>29762</b>	<b>Feasibility Study for Wi-Fi in the TV Whitespaces of Bangalore</b> Sarada Subramanian, Gangadhara Reddy Mallangi, G. V. K. Sasirekha, Jyotsna Bapat and Debabrata Das (Networks and Communication Lab, International Institute of Information Technology, India)	535
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<b>29295</b>	<b>Optimization of Broadband modified Psi Shape Patch Antennas for USB dongle and 4G Applications</b> Kavita Talandage and U. S. Sutar (AISSMS COE, India)	564

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<b>Chair(s)</b>	<b>R. Kishore</b> , <i>Associate Professor, Department of ECE, SSN College of Engineering</i>

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<b>Venue</b>	Justice Pratap Singh Auditorium Room 1
<b>Chair(s)</b>	<b>B. R. Tapas Babu</b> , <i>Professor, Department of ECE, S. A. Engineering College</i>

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**043 Actualization of Face Detection in FPGA using Neural Network** 634  
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**054 SDN Enabled SPIN Routing Protocol for Wireless Sensor Networks** 639  
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<b>Venue</b>	Justice Pratap Singh Auditorium Room 2
<b>Chair(s)</b>	<b>V. Nagaraju</b> , Associate Professor, Department of ECE, S. A. Engineering College

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<b>518</b>	<b>Horn Antenna using Substrate Integrated Waveguide – Design of H-Plane X-Band Horn Antenna</b> Shibu Ghosh and Megha Dadel (BIT Mesra, Patna Campus, India)	661
<b>520</b>	<b>Effect of Substrates on Metamaterial Based Antenna Design and Analysis of Antenna using Different Substrates</b> Bikash Ranjan Behera and Priyadarshi Suraj (Birla Institute of Technology, Mesra, Patna Campus, India)	665
<b>528</b>	<b>Design and Development of Cylindrical Dielectric Resonator (CDR) MIMO Antenna for Multiband Applications</b> P. Tamil Manoj Prasanth and G. Velmathi (VIT University - Chennai Campus, India)	670
<b>534</b>	<b>Challenges and Configuration of ISRO’s Future Q/V Band Satellite</b> Leena Ramdas Shet, G. Praveen Reddy, Imteyaz Ahmad, Pankaj Killedar, Pradeep Kumar Gupta and T. K. Anuradha (ISRO Satellite Centre, India)	674
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<b>Chair(s)</b>	<b>S. Suresh</b> , Associate Professor, Dept. of Information Technology, SRM University

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<b>309</b>	<b>Low Adaptation Delay in Fixed Point LMS Adaptive Filter for DSP Applications</b> M. Sridhar and K. Sivanandam (K S Rangasamy College of Technology, India)	690

315	<b>Designing of Macro-Femto Heterogeneous Network for Improving Energy Efficiency of Cellular System</b> Sudhanshu N. Tayade and Veena A. Gulhane (G.H. Raisoni College of Engineering, India)	695
361	<b>A Review on Data Transmission Techniques for Energy Efficiency in Wireless Sensor Networks</b> Sandeep Kaur and Ruby Goel(GianiZail Singh Campus College of Engineering & Technology, India)	699
363	<b>Network Localization with Noisy Distances by Non-convex Optimization</b> A. Saha and B. Sau (Jadavpur University, India)	704
371	<b>Association of Mobile User in Wi-Fi Networks — A Review</b> Hruta Desai and Devendra Thakor (Uka Tarsadia University, India)	709
377	<b>Effective S1 S2 Detection System with Beat Track Method</b> Anandeep Chaudhuri and T. Jayanthi (SRM University, India)	714

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<b>Chair(s)</b>	<b>R. Jayaparvathy</b> , <i>Professor, Department of ECE, SSN College of Engineering</i>

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704	<b>Improving Detection of Primary User in a Cognitive Radio Network with Malicious Users</b> Nandita Lavanis (SSN College of Engineering, India)	733
717	<b>GA Optimal Sink Placement for Maximizing Coverage in Wireless Sensor Networks</b> Soumitra Ghosh, Itu Snigdha and Apoorva Singh (Birla Institute of Technology, Ranchi, India)	737
718	<b>A Smart Positioning System for Personalized Energy Management in Buildings</b> M. S. Anjana, K. Athira, Aryadevi Remanidevi Devidas and Maneesha Vinodini Ramesh (Amrita School of Engineering, Amritapuri Campus, India)	742
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<b>Chair(s)</b>	<b>P. Mahalakshmi</b> , <i>Associate Professor, School of Electrical Engineering, VIT, Vellore</i>

<b>313</b>	<b>A Pyramidal Approach to Active Contours Implementation for 2D Gray Scale Image Segmentation</b> Priyambada Subudhi and Sushanta Mukhopadhyay (Indian School of Mines, India)	752
<b>323</b>	<b>An Improved Lossless ECG Data Compression using ASCII Character Encoding</b> Dharmendra Gurve, B. S. Saini and Indu Saini (National Institute of Technology, Jalandhar, India)	758
<b>385</b>	<b>Denoising of MRI Images using Filtering Methods</b> J. Seetha (Sathyabama University, India); S. Selvakumar Raja (University of Gondar, Gondar, Ethiopia)	765
<b>391</b>	<b>MRI Brain Image Enhancement using Histogram Equalization Techniques</b> Hardeep Kaur and Jyoti Rani(GZS Campus College of Engineering & Technology Bathinda, India)	770
<b>407</b>	<b>Image Contrast Enhancement Using Histogram Equalization with Fuzzy Approach on the Neighbourhood Metrics (FANMHE)</b> G. Shree Devi and M. Munir Ahamed Rabbani (B.S Abdur Rahman University, India)	774
<b>408</b>	<b>Design of Power Efficient All Digital Phase Locked Loop (ADPLL)</b> Nitesh Tripathi and Sambhu Nath Pradhan (National Institute of Technology, India)	778
<b>433</b>	<b>Efficient Encryption Technique for Medical X-ray Images using Chaotic Maps</b> V. Praneeth Kumar Reddy and A. Annis Fathima (VIT University, India)	783

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<b>Venue</b>	Microwave & Optical Lab
<b>Chair(s)</b>	<b>R. Hemalatha</b> , <i>Associate Professor, Department of ECE, SSN College of Engineering</i>

<b>844</b>	<b>Text Analysis and Information Retrieval of Text Data</b> Honey Gupta, Aveena Kottwani, Soniya Gogia and Sheetal Chaudhari (Sardar Patel Institute of Technology, India)	788
<b>864</b>	<b>Appraisal of Localized Binarization Methods on Tamil Palm-leaf Manuscripts</b> R. S. Sabeenian, M. E. Paramasivam and P. M. Dinesh (Sona College of Technology, India)	793

<b>866</b>	<b>Automatic Detection of Pulmonary Tuberculosis using Image Processing Techniques</b> C. S. Poornimadevi and C. Helen Sulochana (St.Xavier's Catholic College of Engineering, India)	798
<b>29939</b>	<b>Enhancement of Embedding Capacity and Security in Reversible Steganography</b> M. Murali Krishna and Nirmal Roberts (Information & Communication Technology, ABV-IIITM Gwalior, India)	803
<b>29893</b>	<b>LBP-HF Features and Machine Learning Applied for Automated Monitoring of Insulators for Overhead Power Distribution Lines</b> P. Surya Prasad (MVGR College of Engineering, India); B. Prabhakara Rao (JNTUK, India)	808
<b>29810</b>	<b>Automatic Glaucoma Detection by Using Funduscopy Images</b> S. Atheesan and S. Yashothara (University of Moratuwa, Sri Lanka)	813
<b>709</b>	<b>Utilization of Adaptive-coefficient Estimation Method for Motion Artifacts Reduction from Photoplethysmographic Signals</b> M. Raghu Ram, K. Sivani and K. Ashoka Reddy (Kakatiya Institute of Technology & Science, Warangal, India)	818
<b>687</b>	<b>Extraction of Respiratory Activity from Pulse Oximeter's PPG Signals using MSICA</b> K. Venu Madhav and K. Ashoka Reddy (Kakatiya Institute of Technology & Science, Warangal, India ); E. Hari Krishna (UCE&TW, Kakatiya University, Warangal, India )	823

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<b>Chair(s)</b>	<b>K. J. Jegadish Kumar</b> , Associate Professor, Department of ECE, SSN College of Engineering

<b>29500</b>	<b>A Wireless Intrusion Detection System for 802.11 Networks</b> Zeeshan Afzal (Karlstad University, Sweden); Judith Rossebø, Batool Talha and Mohammad Chowdhury (ABB AS, Norway)	828
<b>29485</b>	<b>Routing Attacks Prevention Mechanism for RPL Based on Micropayment Scheme</b> Nan Jiang, Wei Xiao, Jianfei Liu and Hongzhou Shi (RCPC, Institute of Computing Technology, CAS, China)	835
<b>099</b>	<b>Security Vulnerability Analysis and Corresponding Mitigation for Password-based Authentication using an Offline Personal Authentication Device</b> Mada Alhaidary and Sk. Md. Mizanur Rahman (King Saud University, Saudi Arabia)	842
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<b>Chair(s)</b>	<b>N. Prabagarane</b> , <i>Assistant Professor, Department of ECE, SSN College of Engineering</i>

<b>066</b>	<b>Cloud Data Security using Attribute-based Key-Aggregate Cryptosystem</b> Pooja More and D. G. Harkut (Prof Ram Meghe College of Engineering & Management, India)	<b>855</b>
<b>069</b>	<b>A NON OCR Approach for Math CAPTCHA Design based on Boolean Algebra Using Digital Gates to Enhance Web Security</b> Ramanpreet Kaur and Pooja (CT Group of Institutions, India)	<b>862</b>
<b>073</b>	<b>A Hybrid Approach for Video Steganography using Edge Detection and Identical Match Techniques</b> Ramandeep Kaur, Pooja and Varsha (CT Group of Institutions, India)	<b>867</b>
<b>308</b>	<b>Assuaging Cache based Attacks in Named Data Network</b> S. Adithya, G. Gowtham Karthik, H. Hariharan and V. Vetrivelvi (College of Engineering Guindy, Anna University Chennai, India)	<b>872</b>
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<b>Session</b>	Track 1: Antennas and Propagation, Communication Theory and Information Theory
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<b>Venue</b>	Justice Pratap Singh Auditorium Room 1
<b>Chair(s)</b>	<b>I. Johnsi Stella</b> , <i>Professor, Department of ECE, St. Joseph's College of Engineering</i>

<b>30012</b>	<b>Survey on the Nonlinearity of Boolean Functions</b> Bharti (National Institute of Technology, Kurukshetra, India)	<b>882</b>
<b>29486</b>	<b>Design and Simulation of Roof Mounted UHF Antenna for Auto Motives</b> Jay Patel and Niraj Tevar (Parul Institute of Technology GTU, India); Mehul Makwana (Bombardier Transportation Pvt Ltd, India); Jagdish M. Rathod (BVM Engineering College, India)	<b>885</b>
<b>29879</b>	<b>A Review Paper on Conical Corrugated Horn Antenna</b> Niraj Tevar (C.U. Shah University, India); Prarthan Mehta (Dharmsinh Desai University, India); Kiritkumar Bhatt (SVIT, GTU, India)	<b>889</b>

<b>29886</b>	<b>Development of Narrowband Microwave Bandpass Filter for Ku Band</b> Shweta Upadhyay and Chaitali Panchal (Parul Institute of Technology, Gujarat Technological University, India); P. K. Atrey and Raj Singh (Institute of Plasma Research (IPR), India)	893
<b>29967</b>	<b>Survey and Challenges of Li-Fi with Comparison of Wi-Fi</b> P. Kuppusamy, S. Muthuraj and S. Gopinath (Gnanamani College of Technology, India)	896
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<b>023</b>	<b>A Cross Layer Design for Performance Enhancements in LTE-A System</b> V. Sharmila Gandhi and B. Maheswaran (Mepco Schlenk Engineering College, India)	905
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<b>Venue</b>	Justice Pratap Singh Auditorium Room 2
<b>Chair(s)</b>	<b>E. N. Ganesh</b> , <i>Principal, Department of ECE, Saveetha Engineering College</i>

<b>110</b>	<b>Solar Nanoantenna: Design and Technology for Dark Frequency (Electricity from Dark)</b> Rohit D. Apurva, Neha V. Thigale, Amit J. Naik and S. V. Khobragade (Dr. Babasaheb Ambedkar Technological University, India)	914
<b>138</b>	<b>Triple Band Microstrip-Fed Antenna with Defected Ground Plane for Bluetooth/WiMAX/WLAN</b> Prateek Thawait and Niraj Kumar (VIT University, Chennai, India)	918
<b>172</b>	<b>Analysis and Mitigation of Adjacent and Co-Channel Interference on AWGN Channel Using 8-PSK Modulation for Data Communication</b> S. M. Usha and K. R. Nataraj (SJBIT, VTU Belgaum, India)	922
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