2017 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2017)

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Chair(s)	**M. Gulam Nabi Alsath**, *Associate Professor Department of ECE SSN College of Engineering*

Session	Track 4: Signal and Image Processing
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Chair(s)	**E. Priya**, *Assistant Professor Department of ECE Sri Sairam Engineering College*

Session	Track 2: Networking, Protocols, Cognitive radio, Wireless Sensor Networks, Services and Applications
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Chair(s)	**C. Annadurai**, *Associate Professor Department of ECE SSN College of Engineering*

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Chair(s)	**M. Meenakshi**, *Professor Department of ECE College of Engineering, Anna University*

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Chair(s)	**S. Kirubaveni**, *Assistant Professor Department of ECE SSN College of Engineering*

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Chair(s)	**M. Edington Alex**, *Assistant Professor Department of IT Rajalakshmi Engineering College*

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Chair(s)	**Paranchi Dhamodharan Selvam**, *Assistant Professor Department of Telecommunications Sathyabama University*

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Chair(s)	**R. Hemalatha**, *Associate Professor Department of ECE SSN College of Engineering*

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Session	Track 1: Antennas and Propagation, Communication Theory and Information Theory
Date / Time	24 March 2017 (Friday) / 09:00 AM -- 10:30 AM
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Chair(s)	**C. Annadurai**, *Associate Professor Department of ECE SSN College of Engineering*

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668   **Modeling of Satellite Communication Systems Design With Physical Layer Security**   1680
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692   **Modified Coplanar Waveguide with Perturbed Signal Line for Filter Applications at 2.45 GHz**   1684
Ashna Rehman and P. Rahul Lal

781   **Electrically Small S-Band Antenna for CubeSat Applications**   1687
Nadeem Nabi Rather and S. Suganthi

838   **Dual-Band Microstrip Patch Antenna Using Frequency Selective Surface**   1692
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847   **Clustered Set of Three Differently Sized Elliptical Dielectric Resonator Antennas for X-band Application**   1697
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Session	Track 6: Workshop on ``New Technologies in 5G''
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Venue	Hall 4 ECE AC Seminar Hall
Chair(s)	**L .Nandita**, *Associate Professor Department of ECE SSN College of Engineering*

Session	Track 5: Workshop on ``Visible Light Communications''
Date / Time	24 March 2017 (Friday) / 09:00 AM -- 10:30 AM
Venue	Hall 5 Central Seminar Hall
Chair(s)	**S. Sundaravadivelu**, *Professor Department of ECE SSN College of Engineering*

240827   **New Strategy in Wireless Communication**   1838
Anitha Vijayalakshmi and Nesa Sudha

Session	Track 3: Security and Privacy: Security and Privacy
Date / Time	24 March 2017 (Friday) / 09:00 AM -- 10:30 AM
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Chair(s)	**N. Edna Elizabeth**, *Professor Department of ECE SSN College of Engineering*

56   **Security Modalities on Linear Network Code for Randomized Sources**   1841
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486   **Cross Level DDoS Defense System**   N/A
Amol Chauhan, Ashish Kumar Srivastava and Nitul Dutta

730   **Behaviour Analysis of HTTP Based Slow Denial of Service Attack**   1851
N. Muraleedharan and B. Janet

1028   **Design of Secured WLAN by Using "Packet Filtering Firewall"**   1857
Haider Mohammed Turki Al-Hilfi, Bassam Abdulmunem Salih and Ion Marghescu

240797   **Dynamic Password Authentication Protocol Using Android Device and One-Way Function**   1863
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Venue	Hall 7 Conference Hall ECE
Chair(s)	**B. Partibane**, *Associate Professor Department of ECE SSN College of Engineering*

928   **Performance Analysis of Free-Space Optical Wireless Channels Using Finite-SNR DMT**   1867
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33   **Graph-Based Resource Allocation Scheme in Interference-Restricted Two-Tier OFDMA Femtocell Networks**   1871
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995   **Performance Analysis of Non Orthogonal Multiple Access Technique with Precoding**   1878
S. Bharathi, L. Nandita, N. Venkateswaran and R. Subhashini

752   **Investigation on Handover Performance Analysis through Control Parameter Configuration in LTE-A HetNet**   1883
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Session	Track 2: Networking, Protocols, Cognitive radio, Wireless Sensor Networks, Services and Applications
Date / Time	24 March 2017 (Friday) / 11:00 AM -- 12:00 PM
Venue	Hall 1 Justice Pratap Singh Auditorium Room 1
Chair(s)	**P.T.V.Bhuvaneswari**, *Associate Professor Department of Electronics Madras Institute of Technology*

59   **Development of a Power over Ethernet (PoE) Enabled ADS-B Receiver System**   1888
Nagendra Kumar Mangali and Vijendra S. Bagmare

60   **Outage Analysis of Spatial Modulation in Cognitive Radio Networks**   1892
H. Brahathesa, P.G.S. Velmurugan and S. J. Thiruvengadam

71   **E-IoT: Context Oriented Mote Prioritization for Emergency IoT Networks**   1897
Rakesh Kumar Ambhati, Venkata Krishna Kota, Shashikant Y. Chaudhari and Manoj Jain

77   **Network's Server Monitoring and Analysis Using Nagios**   1904
J. Renita and N. Edna Elizabeth

78   **Network's Application Monitoring and Analysis Using Nagios**   N/A
S.B. Angeline Jenefa and N. Edna Elizabeth

115   **G3 Synced Time Stamped ADS-B Data for Surveillance and Data Fusion Application**   1915
Vijendra S. Bagmare, Nagendra Kumar Mangali and Subhadra Singh

135   **End-to-End Delay Bound Analysis of VANETs Based on Stochastic Method via Queueing Theory Model**   1920
Banoth Ravi and Jaisingh Thangaraj

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Venue	Hall 2 Justice Pratap Singh Auditorium Room 2
Chair(s)	**Anandan R**, *Associate Professor \& Head Department of ECE Dhanalakshmi Srinivasan College of Engineering and Technology*

188   **Impact of Anchor Position Errors on WSN Localization Using Mobile Anchor Positioning Algorithm**   1924
Megha. S. Kumar and R. Ramanathan

241   **Performance Analysis of Software Defined Network Controller Architecture—A Simulation Based Survey**   1929
Madhukrishna Priyadarsini, Padmalochan Bera and Rohan Bhampal

246   **Performance Analysis of WSN Links Over η–μ and κ–μ Generalized Fading Channels**   1936
Ashish Goswami and Ashok Kumar

273   **MHRP: A Novel Mobility Handling Routing Protocol in Wireless Body Area Network**   1939
Koushik Karmakar, Suparna Biswas and Sarmistha Neogy

Session	Track 2: Networking, Protocols, Cognitive radio, Wireless Sensor Networks, Services and Applications
Date / Time	24 March 2017 (Friday) / 11:00 AM -- 12:00 PM
Venue	Hall 3 Justice Pratap Singh Auditorium Room 3
Chair(s)	**B.R.Tapas Bapu**, *Professor Department of ECE S. A. Engineering College*

Session	Track 4: Signal and Image Processing
Date / Time	24 March 2017 (Friday) / 11:00 AM -- 12:00 PM
Venue	Hall 4 ECE AC Seminar Hall
Chair(s)	**S. Sakthivel Murugan**, *Associate Professor Department of ECE SSN College of Engineering*

Session	Track 4: Signal and Image Processing
Date / Time	24 March 2017 (Friday) / 11:00 AM -- 12:00 PM
Venue	Hall 5 Central Seminar Hall
Chair(s)	**M.Anbuselvi**, *Associate Professor Department of ECE SSN College of Engineering*

Session	Track 2: Networking, Protocols, Cognitive radio, Wireless Sensor Networks, Services and Applications
Date / Time	24 March 2017 (Friday) / 11:00 AM -- 12:00 PM
Venue	Hall 6 Microwave \& Optical Lab
Chair(s)	**V.Nagaraju**, *Associate Professor Department of ECE S. A. Engineering College*

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Srijit Chowdhury and Chandan Giri

456   **Energy Efficient Wireless Sensor Network Using Neural Network Based Smart Sampling and Reliable Routing Protocol**   2081
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604   **Hierarchical Routing Protocols for Wireless Sensor Networks: A Comparative Survey**   N/A
Misbahul Haque, Tauseef Ahmad and Mohd Imran

870   **Performance Study of Routing Protocols for Power Data Transfer in Wireless Sensor Network**   2091
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240822   **Time Synchronization Method Among VANET Devices**   2096
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240833   **Study on Process Level Network Message Transmission Time of Smart Substation**   2102
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752310   **Infant Movement Detection and Constant Monitoring Using Wireless Sensors**   2109
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507   **HEMAN: Health Monitoring and Nous**   2115
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Session	Track 2: Networking, Protocols, Cognitive radio, Wireless Sensor Networks, Services and Applications
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Chair(s)	**G. Durga**, *Assistant Professor Department of ECE SSN College of Engineering*

89   **Power Estimation by Power Contour to Monitor Sharable Frequency with Mobile Phone Sensors**   2120
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128   **Blood Bag: A Web Application to Manage All Blood Donation and Transfusion Processes**   2125
Rehab S. Ali, Tamer F. Hafez, Ali Badawey Ali and Nadia Abd-Alsabour

293   **Routing Protocols Based on Sink Mobility in Wireless Sensor Networks - A Review**   2131
Rohit Goyal and Padmavati Khandnor

294   **Structure and Structure-Free Data Aggregation Protocols in Wireless Sensor Networks-A Review**   2136
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Chair(s)	**S. Suresh**, *Associate Professor Dept. of Information Technology SRM University*

Session	Track 4: Signal and Image Processing
Date / Time	24 March 2017 (Friday) / 01:30 PM -- 02:30 PM
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Chair(s)	**R. Rajavel**, *Associate Professor Department of ECE SSN College of Engineering*

166 **Review of Human Detection Techniques in Night Vision** 2216
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170 **Pixel Normalization from Numeric Data as Input to Neural Networks** 2221
Parth Sane and Ravindra Agrawal

281 **A Comparative Study on Adders** 2226
Bhavani Koyada, N. Meghana, Md. Omair Jaleel and Praneet Raj Jeripotula

303 **Extraction of Dorsal Palm Basilic and Cephalic Hand Vein Features for Human Authentication System** 2231
D. Sandhiya and B. Thiyaneswaran

433 **Feature Extraction in Augmented Reality** N/A
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445 **Hardware Implementation and Performance Comparison of Normal Basis Multiplication Methods Over GF (2^m)** 2241
Renuka H. Korti and C. Vijaya

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Chair(s)	**P. Vijayalakshmi**, *Professor Department of ECE SSN College of Engineering*

45 **Anomaly Detection Using VCA Algorithm for Multi-temporal Hyperspectral Images** 2248
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46 **Efficient Mammographic Mass Segmentation Techniques: A Review** 2253
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51 **Speech Based Human Emotion Recognition Using MFCC** 2257
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69 **Automated Denoised Ultrasound Carotid Artery Image Segmentation Using Curvelet Threshold Decomposition** 2261
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103 **Image Segmentation Algorithms: An Overview** N/A
Megha Sahu

109 **Comparative Analysis of Classification Techniques for Crop Classification Using Airborne Hyperspectral Data** 2272
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153   **Copy--Move Forgery Detection Exploiting Statistical Image Features**   2277
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Session	Track 4: Signal and Image Processing
Date / Time	24 March 2017 (Friday) / 01:30 PM -- 02:30 PM
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Chair(s)	**S. Joseph Gladwin**, *Associate Professor Department of ECE SSN College of Engineering*

986   **DSCC Features for Hindi Vowel Classification**   2282
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240619   **Power Quality Improvement Using Closed Loop PI {\&}PID Controlled Seven Level Inverter Based STATCOM**   2285
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240721   **Optimization of Code Excited Linear Prediction Speech Coder with PSVQ-Genetic Codebook**   2290
Ancy S. Anselam and Sakuntala S. Pillai

240733   **A Survey on Types of Machine Learning Techniques in Intrusion Prevention Systems**   2296
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240779   **Real Time Emotion Detection from Speech Using Raspberry Pi 3**   2300
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240829   **Design and Implementation of Digital Compensation Method for the Drooping Sinc Response of Sigma Delta ADCs**   2304
E. Keerthi, S. Aruna Mastani and Sreelal S. Pillai

240839   **Precise Tuning for Power Steering**   2309
Athira Vijayan and Renjitha G. Nair

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Venue	Hall 5 Central Seminar Hall
Chair(s)	**M. Palanivelan**, *Professor Department of ECE Rajalakshmi Engineering College*

240641   **Study of RF Inter Satellite Links**   2314
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240679   **An Improved Named Data Based Forwarding Strategy in VANET**   2318
Liu Xuejie, Cheng Xuewei, Wei Da and Xu Xin

240686   **Vehicle Collision Warning Algorithms Implemented in VANET Communication Terminals**   2323
Xue Xia, Zhizhong Ding, Yu Wang and Weijiong Kong

240703   **High Speed Communication and Realization Between FPGA and DSP in Software-Defined Radio System**   2329
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Session	Track 2: Networking, Protocols, Cognitive radio, Wireless Sensor Networks, Services and Applications
Date / Time	24 March 2017 (Friday) / 01:30 PM -- 02:30 PM
Venue	Hall 6 Microwave \& Optical Lab
Chair(s)	**S. Hanis**, *Assistant Professor Department of ECE SSN College of Engineering*

Session	Track 4: Signal and Image Processing
Date / Time	24 March 2017 (Friday) / 01:30 PM -- 02:30 PM
Venue	Hall 7 Conference Hall ECE
Chair(s)	**Sreeja B.S.**, *Associate Professor Department of ECE SSN College of Engineering*

28 **ECG Denoising using Wavelet Transform and Filters** 2395
N. Rashmi, Ghousia Begum and Vipula Singh

36 **Segmentation of Inhomoginity Image Using Homomorphic filtering Based LSF** N/A
Rangu.Srikanth and Kalagadda. Bikshalu

206 **Investigation of Independent Gate Operation in Junctionless Silicon Nanotube FET using 3D Numerical Simulations** 2406
R. Ambika and R. Srinivasan

213 **Developments and Prospects of Flexible Array Sensor for Pulse Diagnostic Apparatus** 2410
Yichen Pan, Zheng Fu, Jianjun Yan, Rui Guo and Haixia Yan

253 **A Real-Time Image Mosaicing Using FAST Detector and FREAK Descriptor** 2413
K. Sai Venu Prathap, S.A.K. Jilani and P. Ramana Reddy

295 **Proposal and Need for All Optical 3R Regenerator** 2419
Althi Bhavya Bindu and Shanthi Prince

492 **All-Digital Phase Locked Loop (ADPLL) with an Up-Down Counter Using Simulink** 2424
V. Vaithianathan, V.H. Eshwar, S. Kamalakannan and James De Raja

655 **Comparative Analysis of Single Precision Floating Point Multiplication Using Compressor Techniques** 2428
K.V. Gowreesrinivas and P. Samundiswary

740 **Multiple Linear Regression Based Water Quality Parameter Modeling to Detect Hexavalent Chromium in Drinking Water** 2434
K. Sri Dhivya Krishnan and P.T.V. Bhuvaneswari

789 **A Comparative Study on the Effectiveness of Using Different Similarity and Dissimilarity Measures for Head Pose Estimation** 2440
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240670 **Comparison and Enhancement of Image Using Different Fuzzy Logics Technique** N/A
Haresh Miyani and Niravkumar Dhameliya

240895 **RFID-Based Automated Car Parking System By Empty Parking Slot Detection** N/A
Ashwini D. Takale, Sadashiv N. Pawar and Dhananjay B. Shivpuje

Session	Track 1: Antennas and Propagation, Communication Theory and Information Theory
Date / Time	24 March 2017 (Friday) / 03:00 PM -- 04:30 PM
Venue	Hall 1 Justice Pratap Singh Auditorium Room 1
Chair(s)	**B. Victoria Jancee**, *Professor \& Head Department of ECE St.Joseph's College of Engineering*

85   **Investigation of Linearly Polarized RMPA Embedded with 2D-EBG Ground Plane**   2450
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94   **Design and Analysis of DCM-OFDM with UWB-ROF System Using SCM/WDM**   N/A
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125   **Design of Multi Resonant PIFA Antenna for Mobile Telecommunication Networks**   2462
Subathra Thavakumar and M. Susila

159   **Parametric Analysis of Channel Models for Land Mobile Satellite MIMO**   2466
M. Aparna and S. Kirthiga

224   **Improved Microstrip Patch Antenna with Enhanced Bandwidth, Efficiency and Reduced Return Loss Using DGS**   2471
Vrishali Mahesh Belekar, Prachi Mukherji and Mahesh Pote

248   **Performance of FSO System Using PPM and MSK Sub-Carrier Intensity Modulation Scheme**   2475
Abhishek Mani Shukla, Maneesh K. Singh and Vinod Kapoor

275   **A UWB Planar Antenna With Band Rejection Characteristics**   2480
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301   **New Results on Turbulence Modelling for Rayleigh-Double Generalized Gamma Mixed RF-FSO Cooperative System**   2483
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324   **A Novel RFID Dipole Tag with Meandered Arms and a Modified T-Match for UHF Band**   2488
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735   **Improving the Convergence of 3D Turbo Codes**   2491
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580   **Compact MIMO Antenna System With High Isolation for Ultra-Wideband Applications**   2496
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Session	Track 1: Antennas and Propagation, Communication Theory and Information Theory
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Venue	Hall 2 Justice Pratap Singh Auditorium Room 2
Chair(s)	**K. S. Vishvaksenan**, *Associate Professor Department of ECE SSN College of Engineering*

416   **Performance Analysis of Coherent and Non-coherent Detection under Rayleigh Fading channel**   N/A
C. Padmaja and B.L. Malleswari

Session	Track 4: Signal and Image Processing
Date / Time	24 March 2017 (Friday) / 03:00 PM -- 04:30 PM
Venue	Hall 3 Justice Pratap Singh Auditorium Room 3
Chair(s)	**G. Velmathi**, *Professor School of Electronics Engineering VIT Chennai*

Session	Track 4: Signal and Image Processing
Date / Time	24 March 2017 (Friday) / 03:00 PM -- 04:30 PM
Venue	Hall 4 ECE AC Seminar Hall
Chair(s)	**K. K. Nagarajan**, *Associate Professor Department of ECE SSN College of Engineering*

Session	Track 1: Antennas and Propagation, Communication Theory and Information Theory
Date / Time	24 March 2017 (Friday) / 03:00 PM -- 04:30 PM
Venue	Hall 5 Central Seminar Hall
Chair(s)	**V.Vaithianathan**, *Associate Professor Department of ECE SSN College of Engineering*

Session	Track 4: Signal and Image Processing
Date / Time	24 March 2017 (Friday) / 03:00 PM -- 04:30 PM
Venue	Hall 6 Microwave \& Optical Lab
Chair(s)	**I. Nelson**, *Assistant Professor Department of ECE SSN College of Engineering*

752412   **Adaptive Super-Resolution Algorithm Based on MCA Decomposition**   2704
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Session	Track 1: Antennas and Propagation, Communication Theory and Information Theory/Track 3: Security and Privacy: Security and Privacy
Date / Time	24 March 2017 (Friday) / 03:00 PM -- 04:30 PM
Venue	Hall 7 Conference Hall ECE
Chair(s)	**K. J. Jegadish Kumar**, *Associate Professor Department of ECE SSN College of Engineering*

61   **A Survey on Efficient Security Based System Using Homomorphic Encryption for Internet of Things**   N/A
A. Jeya Prriya, P. Nirmal Kumar and Deepa Jose

240890   **Improved Apriori Algorithm for Association Rules Using Regression**   N/A
Aakanksha Tomar and Ritu Chauhan

729   **Spear Phishing: Diagnosing Attack Paradigm**   2720
Deepali N. Pande and Preeti S. Voditel

908   **Privacy Preserving Data Auditing Protocol for Secure Storage in Mobile Cloud Computing**   2725
M. Suguna and S. Mercy Shalinie

752329   **Performance Analysis of SIM Based FSO Using Various Modulation Techniques with APD Receiver Over Turbulent Channel**   2730
Arpita Mishra, Preeti Samhita Pati and Rajat Giri

314   **Compact Ultrawideband-Reconfigurable Antenna For Cognitive Radio platforms**   2735
Sasmita Pahadsingh, Sudhakar sahu and Satyadeep Das

1001   **Design and Performance Analysis of Solar Cell Antenna**   2739
E. Praveen Kumar and S. Sundaravadivelu

240681   **Adaptive Channel Estimation in MIMO-OFDM for Indoor and Outdoor Environments**   2743
Monalisa Ghosh, C. Srinivasarao and Harish Kumar Sahoo