

2017 International Conference on Nextgen Electronic Technologies: Silicon to Software (ICNETS² 2017)

**Chennai, India
23-25 March 2017**



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ICNETS² 2017 – Symposium A Detailed Programme

Thursday, 23 March 2017

08:00-10:00

Electronic Registration

10:00-12:00

Inauguration

Inaugural address and plenary talk

The recent achievements of ISRO and how India is placed in elite space clubN/A

Kunhikrishnan P,

Director, Satish Dhawan Space Centre, ISRO, Sriharikota

12:00-12:15

Refreshments

12:15-13:15

D1-KN1

Nadine: A social robot that can localize objects and grasp them in a human way....xxi

Nadia MagnenatThalmann

Institute for Media Innovation, Nanyang Technological University (NTU), Singapore.

Chair : Kalyani Desikan

13:15-14:00

LUNCH

14:00-16:30

Industry-Government-Academia forum

Smart City Mission

16:30-16:45

Evening Break

16:45-17:15

A-D1-IN1

Do you mean what you say? Recognition emotion in spontaneous speechxxiv

Sunil Kumar Kopparapu

TCS Innovation Labs - Mumbai, INDIA

Chair: John Sahaya Rani Alex

17:15-18:30

Oral Paper Presentations

Session

Date/Time

Chair

Oral Session 1

Thursday, 23rd March 2017/17:15 – 18:30

Sunil Kumar Kopparapu, R. Menaka

A-D1-S1-OR20

17.15-17.30

Detecting happiness in Human face using Minimal Feature Vectors....N/A

Manoj Prabhakaran, Manojkumar R

A-D1-S1-OR156

17.30-17.45

A Comparative Study of Isolated Word Recognizer by SVM and Artificial Neural Network....205

John Sahaya Rani Alex, Arka Das, Suhit Kodgule, Nithya Venkatesan

A-D1-S1-OR178

17.45-18.00

Evaluation of cepstral features of Speech for Person Identification System under Noisy Environment....N/A

Puja Chaudhari, John Sahaya Rani Alex.

A-D1-S1-OR138	18.00-18.15	Effect of Dynamic Mode Decomposition Based Dimension Reduction Technique on Hyperspectral Image Classification....N/A <i>Megha P, V Sowmya, K P Soman</i>
A-D1-S1-OR139	18.15-18.30	Performance Evaluation Of Lossy Image Compression Techniques Based on the Image Profile....N/A <i>Poornima Prabhakar, Nithya Varadarajan</i>

Session Date/Time Chair	Oral Session 2 Thursday, 23rd March 2017/17:15 – 18:30 P.Prakash, M. Jagannath	
A-D1-S2-OR57	17.15-17.30	A New Extended Differential Box-Counting Method by Adopting Unequal Partitioning of Grid for Estimation of Fractal Dimension of Grayscale Images....N/A <i>Soumya Nayak, Jibitesh Mishra, Rajalaxmi Padhy</i>
A-D1-S2-OR289	17.30-17.45	A Review Study of Digit Recognition System....N/A <i>Nilima Ahmed, Pinki Roy</i>
A-D1-S2-OR133	17.45-18.00	Combined analysis of Image Processing Transforms with Location Averaging Technique for Facial and Ear Recognition System....N/A <i>Parivazhagan A, BrinthaTherese.A</i>
A-D1-S2-OR137	18.00-18.15	Robust Detection and Tracking of Moving Objects Using BTC and Cam-Shift Algorithm....N/A <i>Kayalvizhi Sekar, Mounica B</i>
A-D1-S2-OR203	18.15-18.30	Segmentation of Cochlear nerve based on Particle Swarm Optimization method....N/A <i>Jeevakala S, BrinthaTherese A</i>

Session Date/Time Chair	Oral Session 3 Thursday, 23rd March 2017/17:15 – 18:30 NithyaVenkatesan, SelvaJyothiK	
A-D1-S3-OR25	17.15-17.30	Anticipatory Postural Adjustments for Balance Control of Ball and Beam System....N/A <i>Vinayak Garg, Astik Gupta, Amit Singh, Yash Jain, Aishwarya Singh, Sasanka Devarapalli, Jagannath M</i>
A-D1-S3-OR44	17.30-17.45	LMI Conditions to Non-Fragile Robust Optimal Guaranteed Cost Control of 2-D Discrete Systems Described by the Roesser Model....N/A <i>Amit Dhawan, Akshata Tandon</i>
A-D1-S3-OR104	17.45-18.00	Segmentation of Optic Disc and Optic Cup in Human Eye Affected with Glaucoma through Combined Optimization Algorithm....N/A <i>Brindha.T.Sambandam, M.S.Josephine, V.Jeyabalaraja</i>
A-D1-S3-OR175	18.00-18.15	Mathematical Model of cantilever plate using Finite element technique based on Hamilton's principle....N/A <i>Behrouz Kheiri Sarabi, Manu Sharma, Damanjeet kaur, Bahman Kheiri Sarabi</i>
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18:45-19:45	Cultural Show
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19:45-21:30	Amphitheatre Moon light Dinner
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Friday, 24 March 2017

07:30-08:30 **Electronic Registration**

08:30-09:30
D2-KN2 *Data-driven analysis of collections of big datasets by the Bi-CoPaM method yields field-specific novel insights....xxi*

Asoke K. Nandi

Department of Electronic and Computer Engineering, Brunel University
London, UK

Chair:Chitra K

09:30-09:45 Presentation by Sponsors - Tenet Technetronics

09:45:10:00	Morning Break
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10:00-10:30
A-D2-IN2 *Optical Image and signal processing for biomedical diagnostics....xxiii*

N.Sujatha, IIT Madras

Chair:R. Menaka

10:30-13:00 Oral Paper Presentations

**Session
Date/Time
Chair**

Oral Session 1

Friday, 24th March 2017/10:30 – 13:00

Sujatha N,Suchetha M

A-D2-S1-OR21 10:30-10:45 Analysis of Myocardial Ischemia from Cardiac Magnetic Resonance Images using Adaptive Fuzzy based Multiphase Level Set....N/A

Muthulakshmi M, Kavitha G

A-D2-S1-OR171 10:45-11:00 Feature Ranking of Spatial Domain Features For Efficient Characterization of Stroke Lesions....N/A

Anish Mukherjee, Abhishek Kanuajia, Karthik R

A-D2-S1-OR142 11:00-11:15 A Novel Video Analytics paradigm for Microscopic Tracking of Microbes....N/A

Devarati Kar, Rajesh Kanna B

A-D2-S1-OR146 11:15-11:30 Application of dynamic thermogram for diagnosis of hypertension....N/A

Jayashree Ramesh, Jayanthi T

A-D2-S1-OR22 11:30-11:45 Diagnosis of Schizophrenia disorder using Wasserstein based active contour and texture features....N/A

Latha M, Kavitha G.

A-D2-S1-OR250 11:45-12:00 Sound Based Control System used in Home Automation....N/A

Mohanaprasad Kothandaraman,S. SankarGanesh

A-D2-S1-OR523 12:00-12:15 Object Tracking Based on Position Vectors and Pattern Matching....N/A

Purandhar Reddy V,Annis Fathima A

A-D2-S1-OR30	12:15-12:30	Non-Invasive Assessment of Fractional Flow Reserve using Computational Fluid Dynamics Modeling from Coronary CT Angiography ImagesN/A <i>Udaya kumar A, Raghavi R, Reshma R, Dechen Wangdi, Angeline Kirubha.S.P</i>
A-D2-S1-OR143	12:30-12:45	A Biometric Mechanism Over Wireless Networks Using Steganographicmethod....N/A <i>D.Siva Sai Srikar, Brinthatherese.A</i>
A-D2-S1-OR150	12:45-13:00	Designing of an Adaptive Filter in Digital Hearing-Aids for Cancellation of Noise....N/A <i>J Anit Presencia, K.Meena Alias Jeyanthi</i>
Session Date/Time Chair	Oral Session 2 Friday, 24th March 2017/10:30-13:00 Malathi G, Manoj Kumar R	
A-D2-S2-OR207	10:30-10:45	Evaluating the Induced Emotions on Physiological Response....N/A <i>Shraddha Menon, Geethanjali B, Guhan Seshadri, Sneha Nair</i>
A-D2-S2-OR208	10:45-11:00	Accuracy Enhancement of Action Recognition using Parallel Processing....N/A <i>Vidhyapathi C. M, Vishakh B.V, Alex Noel Joseph Raj</i>
A-D2-S2-OR226	11:00-11:15	Off-line Odia Handwritten Character Recognition: A Hybrid Approach....N/A <i>Abhisek Sethy, Prashanta Kumar Patra, Depak ranjan nayak</i>
A-D2-S2-OR247	11:15-11:30	Method for Detection and Classification of Diabetes Non-Invasively....N/A <i>Lekha S, Suchetha M</i>
A-D2-S2-OR256	11:30-11:45	An Empirical Mode Decomposition Based Method for Feature Extraction and Classification of Sleep ApneaN/A <i>Smruthy A, Suchetha M</i>
A-D2-S2-OR275	11:45-12:00	Kapur's Entropy and Active Contour based Segmentation and Analysis of Retinal Optic Disc....N/A <i>D Shriranjani, Suresh Chandra Satapathy, Nilanjan Dey, V. Rajinikanth</i>
A-D2-S2-OR174	12:00-12:15	Active Vibration Control Based on LQR Technique for Two Degrees of Freedom System....N/A <i>Behrouz Kheiri Sarabi, Manu Sharma, Damanjeet kaur, Bahman Kheiri Sarabi</i>
A-D2-S2-OR173	12:15-12:30	Estimation of modes of vibration of a structure using Kalman filter....N/A <i>Behrouz Kheiri Sarabi, Manu Sharma, Damanjeet kaur, Bahman Kheiri Sarabi</i>
A-D2-S2-OR209	12:30-12:45	Content Based Medical Image Retrieval System Using DWT and LBP for Ear Images....N/A <i>Manoj Kumar, K.Manglem Singh</i>
A-D2-S2-OR524	12:45-13:00	The New Method for Blood Vessel Segmentation and Optic Disc Detection....N/A <i>Preethi T</i>

13:00-14:00

Lunch

14:00-19:00	Tour - Mahabalipuram
19:00-22:00	Banquet - Intercontinental Resort

Saturday, 25 March 2017

07:30-08:30	Electronic Registration
08:30-09:30 D3-KN3	<i>Sensors and Actuators for HCI and VR: a few Case Studies....xxi</i> Daniel Thalmann Institute for Media Innovation, Nanyang Technological University Singapore Chair: Prabakaran SRS
09:30-09:45	Presentation by Sponsors - Tata Communications
09:45:10:00	Morning Break
10:00-12:00	Oral Paper Presentations / Poster Presentation

Session Date/Time Chair	Oral Session 1 Saturday, 25th March 2017/10:00 – 12:00 Priyanka Kokil, G.Kavitha	
A-D3-S1-OR403	10:00-10:15	Multimodal Approach for Human Authentication Using Sclera and Ear....N/A <i>Tamezheneal R, S.Sumathi</i>
A-D3-S1-OR429	10:15-10:30	Semi-Blind Hyperspectral Unmixing Using Non-Negative Matrix Factorization....N/A <i>Subhashini R, N. Venkateswaran</i>
A-D3-S1-OR276	10:30-10:45	Combined Wavelet and Watershed Transformation Based Characterisation of Oral Lesions....N/A <i>Rajdeep Mitra, R. Menaka, R. Karthik</i>
A-D3-S1-OR279	10:45-11:00	Segmentation of Tumor from Brain MRI using Fuzzy Entropy and Distance Regularised Level Set....N/A <i>I Thivya Roopini, M. Vasanthi, M. Sangeetha, V. Rajinikanth, M. Rekha</i>
A-D3-S1-OR285	11:00-11:15	Effect of Denoising on Vectorized Convolutional Neural Networks for Hyperspectral Image Classification....N/A <i>Deepa Merlin Dixon.k, V.Sowmya, K.P Soman</i>
A-D3-S1-OR83	11:15-11:30	Vehicle License Plate Detection and Recognition using Non-blind Image De-blurring Algorithm....46 <i>Prakash AR, Mohanbabu G, Jagannath Mohan, Adalarasu Kanagasabai</i>
A-D3-S1-OR306	11:30-11:45	Estimation of texture variation in Malaria diagnosis....N/A <i>Vijayalakshmi A, Rajesh Kanna B, Shanthi Banukumar</i>

A-D3-S1-OR81	11:45-12:00	Computing Shortest Path for Transportation Logistics from High Resolution Satellite Imagery....N/A <i>Pratik Mishra, Rohit Kumar Pandey, Jagannath Mohan</i>
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A-D3-S2-OR103	10:00-10:15	Feature Extraction using Seed Based Region growing segmentation algorithm in optic discN/A <i>Brindha Sambandam, M.S. Josephine, V. Jeyabalaraja</i>
A-D3-S2-OR107	10:15-10:30	Performance Analysis of Various LMS Adaptive Filtering Algorithms....N/A <i>Shrikant Honade, Prashant V. Ingole, Nitin A. Shelke</i>
A-D3-S2-OR216	10:30-10:45	A Segmentation Approach Using Level Set Coding For Region Detection In MRI Images....N/A <i>Virupakshappa Shivarajappa, Basavaraj Amarapur</i>
A-D3-S2-OR141	10:45-11:00	Image Authentication based on Salient regions of Image....N/A <i>Utkarsh Arya, Ghanapriya Singh, Rishabh Singhal, Saroj Kumar</i>
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A-D3-S1-PO113 10:30-12:00 Computer Aided Automatic Hookworm Detection In Colon
Endoscopy Images....N/A
Joe Amaladeep R, Gopalakrishnan S

12:00-13:00	Lunch
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13:00-15:00	Oral Paper Presentations
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Session Date/Time Chair	Oral Session 1 Saturday, 25th March 2017/ 13:00 – 15:00 Mala John, John Sahaya Rani Alex	
A-D3-S1-OR294	13:00-13:15	Classification of fNIRS signals for decoding right and left arm movement execution using SVM for BCI applicationsN/A <i>Janani Arivudaiyanambi, Sasikala M</i>
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A-D3-S1-OR348	13:15-13:30	DSP implementation of Novel Algorithm for fast computation of SVD for image compressionN/A <i>Prasantha H S</i>
A-D3-S1-OR366	13:30-13:45	Enhanced Scalar Invariant Feature Transformation....N/A <i>Adithya S, Sivagami</i>
A-D3-S1-OR415	13:45-14:00	Transliteration of Braille code into text in English Language....N/A <i>K.P.S.G. Sugirtha, M. Dhanalakshmi</i>
A-D3-S1-OR374	14:00-14:15	Comparison of RVM and SVM Classifier Performance In Analysing The Tuberculosis In Chest X RayN/A <i>Keerthi S., Dhivya S</i>

15:00-15:15	Evening Break
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15:15-16:30	Valedictory
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ICNETS² 2017 – Symposium B Detailed Programme

Thursday, 23 March 2017

08:00-10:00	Electronic Registration
10:00-12:00	Inauguration Inaugural address and plenary talk <i>The recent achievements of ISRO and how India is placed in elite space club....N/A</i> Kunhikrishnan P, Director, SatishDhawan Space Centre, ISRO, Sriharikota
12:00-12:15	Refreshments
12:15-13:15 D1-KN1	<i>Nadine: A social robot that can localize objects and grasp them in a human wayN/A</i> Nadia MagnenatThalmann Institute for Media Innovation, Nanyang Technological University (NTU), Singapore. Chair : KalyaniDesikan
13:15-14:00	LUNCH
14:00-16:30	Industry-Government-Academia forum Smart City Mission
16:30-16:45	Evening Break
16:45-17:15 F-D1-IN1	<i>From Terrestrial to underground wireless sensor networks: Design factors and transmission costxxvii</i> AdamuMurtalaZungeru InternationalUniversityofScienceandTechnologyPrivate, Botswana Chair: S.Subashini
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Session Date / Time Chair	Oral Session 1 Thursday, 23rd March 2017 / 17:15 – 18 : 30 Paventhana,Ravi Kishore
B-D1-S1-OR18	17.15-17.30 Design and Implementation of Dialysate Temperature Control System for HemodialysisN/A <i>Mohamed Haroon Abdul Jabbar, Anandan Shanmugam S, Poi Sim Khiew</i>

B-D1-S1-OR370	17.30-17.45	System-On-Chip Quad-Copter Controller....N/A <i>Amer Dawoud</i>
B-D1-S1-OR69	17.45-18.00	XILINX System Generator Based FPGA Control of Power Flow for DC/DC Converter....N/A <i>Anurag Sharma, Rajesh Gupta, Muskan Gupta</i>
B-D1-S1-OR97	18.00-18.15	Smart Power Plants with Soft Sensor for SO2 Emissions Monitoring using Internet of Things....N/A <i>Nallamilli.P.GBhavani, K. Sujatha, R.S. Ponmagal</i>
B-D1-S1-OR282	18.15-18.30	Human Robot Interaction Using 3 Dimensional Gestures....N/A <i>Ponmani K, Sridharan S</i>
Session Date / Time Chair	Oral Session 2 Thursday, 23rd March 2017 / 17:15 – 18:30 Bhargava Rajaram, S. Muthulakshmi	
B-D1-S2-OR500	17.15-17.30	Energy Estimation of Embedded Systems....N/A <i>Anagha Ram, Balamurugan M S</i>
B-D1-S2-OR501	17.30-17.45	Design of Communicating Power Supplies and Controlling the Electronic Devices using Internet and Mobile Application....N/A <i>Gunta Krishna Kishore, Balamurugan M S</i>
B-D1-S2-OR502	17.45-18.00	Real-Time Human Detection and Tracking Using Quadcopter....N/A <i>Rana Praful George, Prakash V</i>
B-D1-S2-OR503	18.00-18.15	Sonar Data Processing Using Multicore Architecture Processor and Embedded Linux....N/A <i>Varun K Jayan, Mohamed Husain A.K</i>
B-D1-S2-OR504	18.15-18.30	A Novel Black Box System for Automobiles....N/A <i>Sriram Siva, Prakash V</i>

18:30-18:45	Light Refreshments
18:45-19:45	Cultural Show
19:45-21:30	Amphitheatre Moon light Dinner

Friday, 24 March 2017

07:30-08:30	Electronic Registration
08:30-09:30 D2-KN2	<i>Data-driven analysis of collections of big datasets by the Bi-CoPaM method yields field-specific novel insights....N/A</i> Asoke K. Nandi Department of Electronic and Computer Engineering, Brunel University London, UK Chair: Chitra K
09:30-09:45	Presentation by Sponsors - Tenet Technetronics

09:45-10:00	Morning Break
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10:00-10:30
F-D2-IN2

Cyber Situational Awareness for CPS, 5G and IoT....N/A
Elizabeth Chang
University of New South Wales and Australian Defence
Force Academy, Canberra, Australia
Chair: P. Vetrivelan

10:30-13:00

Oral Paper Presentations

Session Date/ Time Chair	Oral Session 1 Friday, 24th March 2017/ 10:30 – 13:00 Daniel Thalmann,P. Vetrivelan	
B-D2-S1-OR33	10:30-10:45	Token Based Energy Aware Schedulitng And Mapping On Multi-Core Embedded Systems....14 <i>Gomatheeshwari B, Selvakumar J</i>
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B-D2-S1-OR58	11:00-11:15	Performance Analysis of reconfigurable architecture for automotive heterogeneous systems....N/A <i>Srikanth TS, Selvakumar J</i>
B-D2-S1-OR144	11:15-11:30	An IoT Based Smart Shopping Cart Using the Contemporary Barcode ScannerN/A <i>Prithvish Nembhani, Shraddha Agrawal, John Sahaya Rani Alex</i>
B-D2-S1-OR308	11:30-11:45	Integration of the Smart Phone and IOT for Smart Public Toilet Hygiene Monitoring systemN/A <i>Prashant Namekar , Karthikeyan B</i>
B-D2-S1-OR316	11:45-12:00	Active seat belt system....158 <i>Manu Vyas, Mani Kunnathettu Rajee, Shrikant Warghade, Arunkumar Rameshwaran</i>
B-D2-S1-OR396	12:00-12:15	A Dynamic Approach of Energy Saving Control Strategy in Smart HomesN/A <i>Sofana Reka S, S.K.Pranesh</i>
B-D2-S1-OR38	12:15-12:30	Indefinitely Floating Black Box Recorder....N/A <i>Devi Arumugam</i>
B-D2-S1-OR520	12:30-12:45	Multimodal Approach For Human Authentication Using Sclera and EarN/A <i>Tamezheneal R, Sumathy S</i>
B-D2-S1-OR512	12:45-13:00	Smart Drip Infusion Monitoring System for Instant Alert– Through nRF24L01452 <i>Ramisha K, Shabana N, Putha Tanmayee, Loganathan S &Velmathi Guruviah</i>

13:00-14:00	Lunch
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14:00-19:00	Tour - Mahabalipuram
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19:00-22:00	Banquet - Intercontinental Resort
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Saturday, 25 March 2017

07:30-08:30

Electronic Registration

08:30-09:30
D3-KN3

Sensors and Actuators for HCI and VR: a few Case Studies....N/A

Daniel Thalmann

Institute for Media Innovation, Nanyang Technological University
Singapore

Chair: Prabakaran SRS

09:30-09:45

Presentation by Sponsors - Tata Communications

09:45-10:00

Morning Break

10:00-10:30
F-D3-IN3

IOT Vision

Eric Torres,

Global Vice President, New Ventures, Tata Communications

Chair: S. Subashini

10:30-12:00

Oral / Poster Presentation

Session

Date/ Time

Chair

Oral Session 1

Saturday, 25th March 2017/ 10:30 -12:00

Manoj Kumar R. , Velmathi G

B-D3-S1-OR437

10:30-10:45

IoT Augmented Health Monitoring System....251

*Nishita reddy, Achsaah mary, Prabakaran SRS,
Muthulakshmi.S*

B-D3-S1-OR439

10:45-11:00

Local Visualization for Troubleshooting the RF Mesh
Network in a Wireless Metering System....N/A

*Parvathi L Prabhakar, Kiran Thomas, Sreekumar S,
Muthulakshmi S*

B-D3-S1-OR441

11:00-11:15

IoT Based Water Management255

Chanda Rajurkar, Muthulakshmi S, Prabakaran SRS

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11:15-11:30

Train Collision Avoidance System for Automatic Train
Protection using Internet of Things....N/A

Mohit Savner, Gugapriya G

B-D3-S1-OR443	11:30-11:45	Global Industrial Process Monitoring Through IoT Using Raspberry Pi260 <i>Elizabeth Kadiyala, Meda Shravya, Basani Revathi, Muthulakshmi S</i>
B-D3-S1-OR445	11:45-12:00	Automatic Driver and Vehicle Safety Monitoring System....N/A <i>S Vijay Kumar, Abraham Sudharson Ponraj</i>

Session Date/ Time Chair	Oral Session 2 Saturday, 25th March 2017/ 10:30 – 12:00 Suganthi K, Vydeki D
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B-D3-S2-OR493	10:30-10:45	Design and implementation of Smart Helmet using low power MSP430 Platform....N/A <i>Yogya Indupuru, K.Venkatasubramanian, Umamaheswari.V</i>
B-D3-S2-OR494	10:45-11:00	Vision Intelligence System for Power Management using Human Activity Detection System....N/A <i>Sukanya B.Pasupuleti & Prakash Ramachandran</i>
B-D3-S2-OR495	11:00-11:15	Embedded System for Classification of Upper Limb Movement during Action Using EEG....N/A <i>Navya Tummala, K.Venkatasubramanian & Umamaheswari V</i>
B-D3-S2-OR496	11:15-11:30	Intelligent Digital Signage System Based On Gender IdentificationN/A <i>Riya Elizabeth Abraham & Robert Kennedy.M.</i>
B-D3-S2-OR497	11:30-11:45	Speech Recognition System Using Open Source Speech Engine for Indian Names....N/A <i>Nitin Arun Kallole, & R. Prakash</i>
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B-D3-S1-PO252	10:30-12:00	Automatic Traffic Diversion System using Traffic Signals131 <i>Sandhya KS, Karthikeyan B</i>

12:00-13:00	Lunch
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13:00-15:00	Oral Paper Presentations
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Session Date/Time Chair	Oral Session 1 Saturday, 25th March 2017/ 13:00 – 15:00 Bharghava Rajaram, SofanaReka
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B-D3-S1-OR27	13:00-13:15	Raspberry Pi in Computer Science and Engineering Education....N/A <i>Alex David, Ravi kumar S & Rizwana Parveen</i>
B-D3-S1-OR41	13:15-13:30	Advanced Tele surgery with IoT Approach....N/A <i>Shabana N, Velmathi Guruviah</i>
B-D3-S1-OR70	13:30-13:45	FDR (Flight Data Recorder) Tracker Using Robotic Fish....N/A <i>Bharathi Rajagopal, Deepak Raghul, Bhuvaneshwari P</i>
B-D3-S1-OR88	13:45-14:00	An Improved Algorithm For Estimation Of Multi Body Motion.N/A <i>Raghavan K, Prithiviraj R</i>
B-D3-S1-OR263	14:00-14:15	Voting System for India....N/A <i>Shrikant Subhash Warghade, Karthikeyan B.</i>
B-D3-S1-OR284	14:15-14:30	A Server Based Load Analysis Of Smart Meter Systems141 <i>Elakshumi S, Ponraj A.</i>
B-D3-S1-OR322	14:30-14:45	Hyperelliptic Curve Cryptography based Lightweight Privacy-Aware Secure Authentication Scheme For Vehicular Adhoc Network....N/A <i>Kirti Yadav, Vijayakumar Perumal</i>
B-D3-S1-OR405	14:45-15:00	A Novel Approach for Night Time Vehicle Detection in Real Time Scenario....N/A <i>Aswin M, Suganthi Brindha G</i>
Session Date/Time Chair		Oral Session 2 Saturday, 25th March 2017/ 13:00 – 15:00 Suganthi K, Vigneswaran T
B-D3-S2-OR446	13:00-13:15	Portable Embedded Device To Analyse The Effect Of Color Blindness On EEG270 <i>Bony Thomas, Remya Rajendran, Yasasvitha Koganti, & V. Uma Maheswari</i>
B-D3-S2-OR448	13:15-13:30	Emergency and Traffic Congestion Avoidance Using Vehicle To Vehicle Communication....N/A <i>Nilkanth Mugatkar, Anirban Das, Mahadev Desai & Abraham Sudharson Ponraj</i>
B-D3-S2-OR449	13:30-13:45	FPGA based Hand-held High Voltage Testing Equipment....275 <i>Raajkumar S, Muthulakshmi S & Arun Venkatesh</i>
B-D3-S2-OR455	13:45-14:00	Traffic Signal Breach Vehicle Stop System Using IoT296 <i>Cherreddy Sekhar, K Kranthi, & M Kalyan Chakravarthi</i>
B-D3-S2-OR467	14:00-14:15	Smart Mobile Diagnostic Lab and Doctor Annunciation System in Ambulances....N/A <i>Nikita Bais, Shubha R, V Yamuna, & M Kalyan Chakravarthi</i>
B-D3-S2-OR478	14:15-14:30	Raspberry Pi Based Surveillance System With IOT....N/A <i>Arvin Joseph Kumar Jayakumar & S. Muthulakshmi</i>
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Session Date/Time Chair		Oral Session 3 Saturday, 25th March 2017/ 13:00 – 15:00 Mohana Prasad P, Balamurugan M.S.
B-D3-S3-OR491	13:00-13:15	Development of roads pot hole detection system using image processing....N/A <i>Harshad Sawalakhe & Ramchandran Prakash</i>
B-D3-S3-OR492	13:15-13:30	Automated Interoperability Testing of Optical Network Terminals for VoIP Call Features using Robot Framework....N/A <i>Kavya Ajith, Kalaiselvan Ramalingam & Muddukrishna Dandu</i>
B-D3-S3-OR6	13:30-13:45	Artificial Intelligence Based Automation & Braking System For Cars Using Open Source BCI Technology....N/A <i>Sibu C M</i>
B-D3-S3-OR19	13:45-14:00	Authenticated Data Transmission From WBAN Using GCM....N/A <i>O.Pandithurai, Harshatha J, Harini G</i>
B-D3-S3-OR98	14:00-14:15	Android based Home Automation using Bluetooth and HC-12N/A <i>Siva Nagendra Reddy, M.Mahesh Reddy</i>
B-D3-S3-OR196	14:15-14:30	Design and Development of Hand Gesture Controlled Robotic Upper Limb Prosthesis....N/A <i>Kanchana D, Vinoth Kumar Venkatesan, Gokularam I, Nithin Manoj</i>
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15:15-16:30	Valedictory	

ICNETS² 2017 – Symposium C Detailed Programme

Thursday, 23 March 2017

08:00-10:00

Electronic Registration

10:00-12:00

Inauguration

Inaugural address and plenary talk

The recent achievements of ISRO and how India is placed in elite space clubN/A

Kunhikrishnan P,

Director, SatishDhawan Space Centre, ISRO, Sriharikota

12:00-12:15

Refreshments

12:15-13:15

D1-KN1

Nadine: A social robot that can localize objects and grasp them in a human way....N/A

Nadia MagnenatThalmann

Institute for Media Innovation, Nanyang Technological University (NTU), Singapore.

Chair : KalyaniDesikan

13:15-14:00

LUNCH

14:00-16:30

Industry-Government-Academia forum

Smart City Mission

16:30-16:45

Evening Break

16:45-17:15

C-D1-IN1

Frequency Conversion Layers for Si Solar Cell efficiency improvementxxii

FabriceGourbilleau

CIMAP, NormandieUniv, France

Chair:GargiRaina

17:15-18:30

Oral Paper Presentations

Session

Date

Chair

Oral Session 1

Thursday, 23rd March 2017/ 17:15 – 18:30

Fabrice Gourbilleau, DevaPrakasam

C-D1-S1-OR55

17.15-17.30

The Effect of Functionalized MWCNT on Mechanical and Electrical Properties of PMMA NanocompositesN/A

Amrit Mallick, Sarat Kumar Swain, Punyapriya Mishra

C-D1-S1-OR160

17.30-17.45

Films of reduced graphene oxide based metal oxide nanoparticles....N/A

Neena John, Bramhaiah Kommula, Indu Pandey, Kavitha Chintala

C-D1-S1-OR225	17.45-18.00	A micellar approach for diameter- and position- controlled growth of carbon nanotubes....N/A <i>Sathyanarayanan</i> <i>Punniyakoti</i> <i>,Lianchenshan,AnithaEthirajan,Marc D'Olieslaeger and Hans-GerdBoyen</i>
C-D1-S1-OR358	18.00-18.15	Nanostructured Black Carbons as Electrodes for Electric Double Layer Capacitors....N/A <i>Sangeetha Iyer, Samynaathan V, M.S. Michael</i>
C-D1-S1-OR229	18.15-18.30	Ethylene detection using TiO ₂ -WO ₃ nano composite sensor for fruit ripening applications....N/A <i>J. Kathirvelan, R. Vijayaraghavan, Anna Thomas</i>

18:30-18:45	Evening Break
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18:45-19:45	Cultural Show
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19:45-21:30	Amphitheatre Moon light Dinner
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Friday, 24 March 2017

07:30-08:30

Electronic Registration

08:30-09:30
D2-KN2

Data-driven analysis of collections of big datasets by the Bi-CoPaM method yields field-specific novel insights....N/A

Asoke K. Nandi

Department of Electronic and Computer Engineering, Brunel University
London, London, UK

Chair: Chitra K

09:30-09:45

Presentation by Sponsors - Tenet Technetronics

09:45:10:00	Morning Break
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10:00-10:30
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SubhanadhaChakrabarti

Indian Institute of Technology Bombay

Chair: GargiRaina

10:30-13:00

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C-D2-S1-OR66	12:15 – 12:30	Performance Analysis of Dual-Metal-Gate Double-Gate Tunnel-FETs for Ultralow Power Applications....N/A <i>Gracia Devaraj, D.Nirmal</i>
C-D2-S1-OR200	12:30-12:45	Size optimization of InAs/GaAs quantum dots for longer storage memory applicationsN/A <i>Damodaran V, Kaustab Ghosh</i>
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14:00-19:00		Tour - Mahabalipuram
19:00-22:00		Banquet - Intercontinental Resort

Saturday, 25 March 2017

07:30-08:30 **Electronic Registration**

08:30-09:30 *Sensors and Actuators for HCI and VR: a few Case Studies....N/A*
D3-KN3 **Daniel Thalmann**
Institute for Media Innovation, Nanyang Technological University
Singapore
Chair: Prabakaran SRS

09:30-09:45 Presentation by Sponsors - Tata Communications

09:45-10:00	Morning Break
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10:00-10:30 *Rare earth doped semiconducting thin films for Si-based light-emitting devices....xxii*
C-D3-IN3 **Christopher Labbé**
CIMAP, NormandieUniversité, France.
Chair: Bindu B

10:30-12:00 Oral Paper Presentations / Poster Presentation

Session Date/ Time Chair	Oral session 1 Saturday, 25th March 2017/ 10:30 – 12:00 Christopher Labbe, Nirmal Thyagu	
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C-D3-S1-PO417	10:30 – 12:00	Synthesis Of Graphene-Metal Oxide Nanocomposite for Sensing ApplicationN/A <i>Aswathy U M, M L Aparna, Sathyanarayan .P, Niroj kumar sahu</i>

12:00-13:00	Lunch
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13:00-15:00	Oral Paper Presentations
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Session Date/Time Chair		Oral Session 1
		Saturday, 25th March 2017/ 13:00 – 15:00 Bindu B, Gargi Raina
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C-D3-S1-OR518	13:15-13:30	Design of multi-stage CMOS OTA for Low-Power and High Driving Capability....N/A <i>Manikandan P, Rama Krishna Murthy Paturi</i>

15:00-15:15	Evening Break
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15:15-16:30	Valedictory
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ICNETS² 2017 – Symposium D Detailed Programme

Thursday, 23 March 2017

08:00-10:00

Electronic Registration

10:00-12:00

Inauguration

Inaugural address and plenary talk

The recent achievements of ISRO and how India is placed in elite space club....N/A

Kunhikrishnan P,

Director, Satish Dhawan Space Centre, ISRO, Sriharikota

12:00-12:15

Refreshments

12:15-13:15

D1-KN1

Nadine: A social robot that can localize objects and grasp them in a human way....N/A

Nadia MagnenatThalmann

Institute for Media Innovation, Nanyang Technological University (NTU), Singapore.

Chair : Kalyani Desikan

13:15-14:00

LUNCH

14:00-16:30

Industry-Government-Academia forum

Smart City Mission

16:30-16:45

Evening Break

16:45-17:15

D-D1-IN1

Metamaterial Based Planar Antennas....xxv

GnanamGnanagurunathan,

Department of Electrical and Electronic Engineering,
University of Nottingham, Malaysia Campus

Chair: R.G. Sangeetha

17:15-18:30

Oral Paper Presentations

Session

Date/Time

Chair

Oral Session 1

Thursday, 23rd March 2017/17:15 – 18:30

GnanamGnanagurunathan, UshaKiranKommuri

D-D1-S1-OR34

17.15-17.30

Performance Improvement of Fractal Antenna with Electromagnetic Band Gap (EBG) and Defected Ground Structure for Wireless Application....N/A

Shailendra Kumar Dhakad, Sudeep Baudha, Tapesh Bhandari

D-D1-S1-OR328	17:30-17:45	Optical switches network in OLT line cards and Optical Network units....N/A <i>Mayur Raut</i>
D-D1-S1-OR45	17.45-18.00	A Modified L-Slot Microstrip Antenna with Chamfered Patch Edges for UWB ApplicationsN/A <i>Jemima Nissiyah G, M.Ganesh Madhan</i>
D-D1-S1-OR49	18.00-18.15	Miniaturized Compact Super Broadband Printed Monopole Antenna30 <i>Sudeep Baudha, Shailendra Kumar Dhakad</i>
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Session Date/Time Chair		Oral Session 2 Thursday, 23rd March 2017/17:15 – 18:30 Debojyothi, FebinDaya L
D-D1-S2-OR106	17.15-17.30	Gain Enhancement of Compact Multiband Antenna with Metamaterial Superstrate.....N/A <i>Rengasamy Rajkumar, Usha Kiran Kommuri</i>
D-D1-S2-OR159	17.30-17.45	Multi Band High Gain Antenna with CPW Feed for Wi-Fi, Wi-Max and X Band Application....N/A <i>Anish Mukherjee, Abhishek Kanuajia., RaviPrakash Dwivedi, Usha Kiran K</i>
D-D1-S2-OR162	17.45-18.00	Design & Parameter Extraction of Split Ring Resonator for Surface Crack Detection in Different Materials....N/A. <i>Varun Seshadri, RaviPrakash Dwivedi.</i>
D-D1-S2-OR183	18.00-18.15	Frequency Tuning Method for Small Profile Metamaterial based on Tri-Ring Resonator.....N/A <i>Maruti Tamrakar, Usha Kiran K.</i>
D-D1-S2-OR193	18.15-18.30	MIMO Antenna Array at LTE for Portable Devices....N/A. <i>Debayan Das, Thiripurasundari D, R.Poonkuzhali</i>
18:30-18:45	Light Refreshment	
18:45-19:45	Cultural Show	
19:45-21:30	Amphitheatre Moon light Dinner	

Friday, 24 March 2017

07:30-08:30	Electronic Registration
08:30-09:30 D2-KN2	<i>Data-driven analysis of collections of big datasets by the Bi-CoPaM method yields field-specific novel insights....N/A</i> Asoke K. Nandi Department of Electronic and Computer Engineering, Brunel University

London, London, UK

Chair: Chitra Krishnan

09:30:09:45

Presentation by Sponsors - Tenet Technetronics

09:45:10:00

Morning Break

10:00-10:30

D-D2-IN2

Next Generation Communication System Using Cognitive Radio Networks....xxiv

Geetam Singh Tomar,

THDC IHET, Tehri,

Chair :UshaKiranKommuri

10:30- 13:00

Oral Paper Presentations

Session

Date/Time

Chair

Oral Session 1

Friday 24th March 2017/10:30– 13:00

Geetam Singh Tomar, R.G. Sangeetha

D-D2-S1-OR23

10:30-10:45

Enhanced Hierarchical Cluster Based Routing Protocol with Optical Sphere in FSO MANET....N/A

Kavitha Balamurugan, K. Chitra , A.Jawahar

D-D2-S1-OR68

10:45-11:00

Effects of Cross Phase Modulation and Four Wave Mixing in DWDM Optical Systems using RZ and NRZ signal....N/A

V.Sasikala, K.Chitra

D-D2-S1-OR255

11:00-11:15

Redesigning Mach-Zehnder Modulator with Ring resonators....N/A

Jesuwanth Sugesh R.G, Sivasubramanian A

D-D2-S1-OR332

11:15-11:30

Performance Improvement of Gain in Distributed Raman Amplifier using forward and backward Pumps....N/A

Shameem S, Sivasubramanian A

D-D2-S1-OR421

11:30-11:45

SOA parameters optimization for high data rate operation....N/A

K.Swetha , R Manohari, Shanthi Prince

D-D2-S1-OR135

11:45-12:00

Analysis and Parameter Extraction of an LED for Brain Implants....N/A

Rabinder Henry.Velmathi Guruviah

D-D2-S1-OR136

12:00-12:15

Review of Thermal Management of an Light Emitting Diodes for Brain Implants....N/A

Rabinder Henry, Velmathi Guruviah

D-D2-S1-OR157

12:15-12:30

Band-gap analysis in defectless Photonic crystals....N/A

T.Sridarshini, S. Indira Gandhi

D-D2-S1-OR164

12:30-12:45

Optical Channel Analysis of Turbo coded MIMO-OFDM system for Visible Light Communication.....N/A

Sabitha Gauni, C.T.Manimegalai, K.Kalimuthu , Kaushik VCS,

Rama Rao T

D-D2-S1-OR24

12:45-13:00

Design of a Coupling Lens Assembly and Study on the Impact of Optical Misalignments and Variations of Lens Assembly on BER of a System....10

Radhika Ramesh, Nitin Tiwari, Pravin Joshi

13:00-14:00

LUNCH

14:00-19:00

Tour - Mahabalipuram

19:00-22:00	Banquet - Intercontinental Resort
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Saturday, 25 March 2017

07:30-08:30 **Electronic Registration**

08:30-09:30 *Sensors and Actuators for HCI and VR: a few Case Studies*
 KN3 **Daniel Thalmann**
 Institute for Media Innovation, Nanyang Technological University
 Singapore
Chair: PrabakaranSRS

09:30-09:45 **Presentation by Sponsors - Tata Communications**

09:45-10:00	Morning Break
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10:00-12:00	Oral Paper Presentations and Poster Presentations
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Session Date/Time Chair	Oral Session 1 Saturday 25th March 2017/10:00– 12:00 C.S Ganesh, Umayal C	
D-D3-S1-OR260	10:00-10:15	Study On Gain Enhancement of the Antenna using Planar Small Metasurface Lens....N/A <i>Prakhar D vyas, Usha Kiran K</i>
D-D3-S1-OR270	10:15-10:30	Design of an Internal Multi Resonant PIFA Antenna for Mobile Telecommunication Networks....N/A <i>Subathra Thavakumar, M.Susila</i>
D-D3-S1-OR283	10:30-10:45	Design of Substrate Integrated Waveguide back to back π -shaped Slot Antenna for 60GHz Applications....N/A <i>Nanda Kumar M, T Shanmuganantham</i>
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D-D3-S1-OR383	11:15-11:30	A Review On Micro Strip Antenna For WiMAX, WLAN, Mobilecommunication ApplicationN/A <i>Mallikarjun C Sarsamba, Raju Yanamashetti</i>
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D-D3-S1-OR511	11:45-12:00	The Design of High Gain Substrate Integrated Waveguide Antennas with FR4 and RT Duroid.N/A <i>Caroline Sebastian , V.J AmirthaVijina, Ramesh R, Usha Kiran K</i>

Session Date/Time Chair		Oral Session 2 Saturday 25th March 2017/10:00– 12:00 Prabu K, Sangeetha RG
D-D3-S2-OR394	10:00-10:15	A Comparative Study on Asymmetric, Triangular and Rectangular Core Large-mode-area PCF Designs....N/A <i>Netra Dalvi, Radhika Ramesh, Pravin Joshi</i>
D-D3-S2-OR262	10:15-10:30	Robust Phase Reconstruction from Fresnel Field Using Compressive SensingN/A <i>Prakash Ramachandran, Zachariah C Alex, Anith Nelleri</i>
D-D3-S2-OR95	10:30-10:45	Study of Microstrip Antenna Array with EBG StructureN/A <i>Vani R M, Prahlada Rao K, Hunugund P, Prashant T</i>
D-D3-S2-OR71	10:45-11:00	Implantable Antenna for Blood Glucose Monitoring....N/A <i>Shalu Pandey, Vibha Rani Gupta</i>
D-D3-S2-OR211	11:00-11:15	Miniaturized Chipless RFID Tag Using Multiple Microstrip Resonators....101 <i>Manan Narula, Aman Kumar, Usha Kiran Kommuri</i>
D-D3-S2-OR186	11:15-11:30	Compact 'V' Shaped Metamaterial Based Resonator for Wide Band Rejection....88 <i>Murshed Ali Naskar, Maruti Tamrakar, Thiripurasundari D</i>
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D-D3-S3-OR472	10:00-10:15	Analysis of Atmospheric Effects on Free Space Optical Communication....338 <i>Eswaravaka Mahesh Reddy, A.BrinthaTherese</i>
D-D3-S3-OR499	10:15-10:30	Mitigation Of Cross Phase Modulation in Multiband Radio-Over-Fiber Systems....N/A <i>Ch. Venkata Dharani, BrinthaTherese A</i>
D-D3-S3-OR435	10:30-10:45	Analysis of Dispersion Compensation Methods in WDM Systems....N/A <i>S.Sesha Sai Srikar, Subhashini N</i>
D-D3-S3-OR464	10:45-11:00	A Multi-band Patch Antenna for WLAN and WiMAX Systems....N/A <i>Sourabh Jeurkar , Niraj Kumar</i>
D-D3-S3-OR465	11:00-11:15	Wideband Antenna For Medical Application....N/A <i>Drishti Gandhi, Niraj Kumar</i>
D-D3-S3-OR468	11:15-11:30	High Gain Stacked Patch Antenna with Circular Polarization for Wireless Applications....322 <i>Subhani Shekh, Ravi Dwivedi</i>
D-D3-S3-OR471	11:30-11:45	Study on CPW Antenna Using Fractal Geometry for Wi-Max Application....332 <i>K.Kavya, Ravi Prakash Dwivedi</i>
D-D3-S3-OR474	11:45-12:00	Study On Network Performance Of Interior Gateway Protocols - RIP, EIGRP AND OSPF....344 <i>Athira M, Lekha Abraham, Sangeetha RG</i>

Session Date/Time Chair	Poster Session Saturday 25th March 2017/10:30– 12:00 Mohanaprasad, Hemanth C, Gargi Raina, Uma Devi S
D-D3-S1-PO60	10:30-12:00 Performance Analysis of CSRZ-DQPSK Modulator for RoF-PON Based Wireless Access....N/A <i>C.Rimmya, M. Ganesh Madhan, S. Arshujabin</i>
D-D3-S1-PO172	10:30-12:00 Design and Implementation of π - Shaped Slot Triple Band Antenna for WLAN/WiMAX Applications....75 <i>A.Ravindiran, V.Jeyalakshmi</i>
D-D3-S1-PO254	10:30-12:00 Energy Minimization Technique for Optical WDM Networks based on Traffic Grooming and Inverse Multiplexing...137 <i>Pushpanathan Krishnamoorthy, Sivasubramanian Arunagiri</i>
D-D3-S1-PO407	10:30-12:00 Performance Analysis of X-band Hairpin line RF MEMS bandpass filter based on Fractal Iterations using Pseudo-elliptic synthesis methodN/A <i>M.Revathi, L.Sujatha</i>
D-D3-S1-PO413	10:30-12:00 Evaluation of Environmental Factors in Bi-directional WDM Optical Wireless Communication in 1.55 μ m Band....N/A <i>Dr.Chitra K</i>
D-D3-S1-PO414	10:30-12:00 To Reduce Mutual Coupling in Microstrip patch Antenna Arrays Elements Using Electromagnetic Band Gap Structures for X-Band....228 <i>Ankit Arora, Niraj Kumar</i>

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Session Date/Time Chair	Oral Session1 Saturday 25th March 2017/13:00– 15:00 Jayeeta Bhattacharyya, Brintha Therese A
D-D3-S1-OR84	13.00-13.15 Reliability Analysis of Data Center Network....N/A <i>Abhilasha Sharma, Sangeetha R.G</i>
D-D3-S1-OR35	13.15-13.30 Miniaturized Low Profile Antenna and Meta-Material Loaded Phase Shifter for Radar Application....N/A <i>Vineeta Singh, Anitha G, Usha Kiran Kommuri</i>
D-D3-S1-OR122	13.30-13.45 Cooperative Communication for Resource Sharing in Cognitive Radio Networks....N/A <i>Lekha Abraham, Sangeetha R.G</i>
D-D3-S1-OR337	13:45-14:00 Blocking Probability based Admission Control and Scheduling Technique for QoS Provisioning in WDM networks....N/A <i>M.R.Senkumar, C Selvakumar</i>
D-D3-S1-OR387	14:00-14:15 Space Bandwidth Product Analysis of Digital Holography and Image Reconstruction Process....194 <i>Lokesh Reddy B, Praveen Phinehas M, Anith Nelleri</i>
D-D3-S1-OR123	14:15-14:30 Inter-domain Traffic Engineering with BGP and MPLS VPN....N/A <i>Athira M, Sangeetha R.G</i>
D-D3-S1-OR428	14:30-14:45 All-Optical 3R Regenerator Design and Simulation....N/A <i>Althi Bhavya Bindu, Shanthi Prince</i>
D-D3-S1-OR423	14:45-15:00 All-Optical Precoder design for DQPSK Modulator....N/A <i>Manoharii Ramachandran, Satyasai Srihashyam, Shanthi Prince</i>

Session Date/Time Chair		Oral Session2 Saturday 25 th March 2017/13:00– 15:00 Sivasubramanian A, Sangeetha R G
D-D3-S2-OR475	13:00-13:15	Designing Multiband in Cylindrical Dielectric Resonator Antenna (CDRA) for wireless Applications....349 <i>Tamil Manoj Prasanth, Velmathi Guruviah</i>
D-D3-S2-OR476	13:15-13:30	Design of Microstrip Patch Antenna with Polarization Diversity for Wireless Applications....N/A <i>Inderpreet Kaur Sokhi, Ramesh R, Usha Kiran K</i>
D-D3-S2-OR477	13:30-13:45	Comparative Analysis of Microstrip Antenna for High Gain using FSS....353 <i>Phaneendra Verma, Ravi Prakash Dwivedi, Usha Kommuri</i>
D-D3-S2-OR479	13:45-14:00	Classification of Normal, Seizure and Seizure-free EEG signals using EMD and EWT....360 <i>Siddharth Saxena, Hemanth C, Sangeetha RG</i>
D-D3-S2-OR506	14:00-14:15	CPW Ultra-Wideband Tunable Notched Antenna....430 <i>Liji A Jose, Patel Jinay Atulbhai, Prof. Ravi Prakash Dwivedi</i>
D-D3-S2-OR509	14:15-14:30	Design of Miniaturized Dual Polarized MIMO Antenna....441 <i>Prakhar D. Vyas, Govindu Vinod Kumar, Abhijit G. Raut and Usha Kiran Kommuri</i>
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ICNETS² 2017 – Symposium E Detailed Programme

Thursday, 23 March 2017

08:00-10:00

Electronic Registration

10:00-12:00

Inauguration

Inaugural address and plenary talk

The recent achievements of ISRO and how India is placed in elite space club....N/A

Kunhikrishnan P,

Director, Satish Dhawan Space Centre, ISRO, Sriharikota

12:00-12:15

Refreshments

12:15-13:15

D1-KN1

Nadine: A social robot that can localize objects and grasp them in a human way....N/A

Nadia MagnenatThalmann

Institute for Media Innovation, Nanyang Technological University (NTU), Singapore.

Chair : Kalyani Desikan

13:15-14:00

LUNCH

14:00-16:30

Industry-Government-Academia forum

Smart City Mission

16:30-16:45

Evening Break

16:45:17:15

E-D1-IN1

Radio-Frequency Integrated Circuit Designxxv

Jie Li

University of Melbourne, Australia

Chair: Augusta Sophy Beulet P

17:15-18:30

Oral Paper Presentations

Session

Date/Time

Chair

Oral Session 1

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Jie Li, Ravi Sankar A

E-D1-S1-OR11

17.15-17.30

Stochastic Multiplier and Divider for Stochastic LU Decomposition....I

K. Ferents Koni Jiavana, Nitin Gurjar

E-D1-S1-OR14

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Front-End CMOS Circuit for Low Power ConsumptionN/A

E. Dinesh Kumar, K. Ferents Koni Jiavana

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Implementation of a Novel Cache Memory unit for Storing

		Processed Data and Instructions....6 <i>Saurav Sarkar</i>
E-D1-S1-OR29	18.00-18.15	A Parallel Pipelined Vlsi Architecture Of Lifting Based 3-D Discrete Wavelet Transform....N/A <i>M.Prethippa, N.UshaBhanu</i>
E-D1-S1-OR90	18.15-18.30	Performance analysis of Eight Port Octagon Structure based Circuit Switching....N/A <i>KarthiKeyan. I, Batri K</i>
Session Date/Time Chair		Oral Session 2 Thursday, 23rd March 2017/17:15 – 18:30 C. Arun, Umamaheswari S
E-D1-S2-OR37	17.15-17.30	A Preliminary Study Of Oscillators, Phase And Frequency Detector And Charge Pump for Phase Locked Loop (PLL) Applications....N/A <i>Prithiviraj R, Selvakumar J</i>
E-D1-S2-OR48	17.30-17.45	All digital RF Transmitter with highly power efficient Doherty Power AmplifierN/A <i>Deepa Pradeep, B Ananda venkatesan</i>
E-D1-S2-OR54	17.45-18.00	Adiabatic Techniques for Energy Efficient Barrel Shifter DesignN/A <i>Anantharaman K, Manikandan.A.V.M.</i>
E-D1-S2-OR63	18.00-18.15	A 79GHz CMOS LNA with Adaptive Biasing <i>D.Rubeena, J Manjula</i>
E-D1-S2-OR47	18.15-18.30	Design and analysis of a millimeter wave fractional N frequency synthesizer....N/A <i>Parvathy P, N Saraswathy</i>
18:30-18:45	Light Refreshments	
18:45-19:45	Cultural Show	
19:45-21:30	Amphitheatre Moon light Dinner	

Friday, 24 March 2017

07:30-08:30	Electronic Registration
08:30-09:30 D2-KN2	<i>Data-driven analysis of collections of big datasets by the Bi-CoPaM method yields field-specific novel insights....N/A</i> Asoke K. Nandi Department of Electronic and Computer Engineering, Brunel University London, London, UK Chair: Chitra K
09:30-09:45	Presentation by Sponsors - Tenet Technetronics

09:45:10:00	Morning Break
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10:00-10:30
E-D2-IN2 *An Overview OnMemristorBased Non-Volatile LUT of an FPGA...xxvi*
T. Nandha Kumar
University of Nottingham, Malaysia
Chair:Ravi Sankar A

10:30- 13:00 Oral Paper Presentations

Session Date/Time Chair	Oral Session 1 Friday, 24th March 2017/10:30-13:00 T. Nandha Kumar, Augusta Sophy Beulet P	
E-D2-S1-OR75	10:30-10:45	X-Band Phased Array Transmitter in 180nm SiGe BiCMOS Technology with Stacked Power Amplifier....N/A <i>Sijo Thomas, T. Saminathan</i>
E-D2-S1-OR87	10:45-11:00	Short Range Low Data Rate Pulsed UWB Transmitter....N/A <i>Sarathy Govindarajan, Praveen Kumar</i>
E-D2-S1-OR117	11:00-11:15	A New High Speed Multiplier based on Carry Look Ahead Adder and Compressor....N/A <i>B.Jeevan, K.Sivani</i>
E-D2-S1-OR355	11:15-11:30	A High SNDR and Wider Signal Bandwidth CT $\Sigma\Delta$ Modulator with a Single Loop Non-linear Feedback Compensation....N/A <i>S.Chandra Sekhar, AnaniahDurai S</i>
E-D2-S1-OR140	11:30-11:45	Survey on Design of Low Power CMOS Four Quadrant Analog Multiplier in Nano Meter Scaling....N/A <i>Sharath N.S. Suhasini</i>
E-D2-S1-OR227	11:45-12:00	Memristor based Approximate Adders for Error Resilient Applications....N/A <i>Muthulakshmi S, ,Chandra Sekhar Dash, Prabakaran SRS.</i>
E-D2-S1-OR181	12:00-12:15	Enhancing the efficiency of Carry Skip Adder using MBFA-10T.....84 <i>K.Kumaran, G.Anantha Bhanumithra, R.Rathi, M.Mohana Priya</i>
E-D2-S1-OR409	12:15-12:30	Differential Power Analysis (DPA) Resistant Cryptographic S-Box....N/A <i>Pratibha A., Madhu K.M., Kanchana Bhaskaran</i>
E-D2-S1-OR93	12:30-12:45	Design of power gated double edge triggered register element using sleep transistor technique (pg-stdeff) low power clocking system.....N/A <i>P.Nagarajan, R.Prasanna, G. Mohanbabu</i>
E-D2-S1-OR94	12:45-13:00	Design and Implementation of FPGA based 64 bit MAC unit using VEDIC Multiplier and Reversible Logic gates....N/A. <i>P.Siva Nagendra Reddy, M.Saraswathi</i>
Session Date/Time Chair	Oral Session 2 Friday, 24th March 2017/10:30-13:00 Vigneswaran T, AnaniahDurai S	
E-D2-S2-OR438	10:30-10:45	28nm FD-SOI SRAM design using read stable bit cell architecture....N/A <i>Lourts Deepak, MrinalGandotra, ShailjaYadav, Himani Gandhi,Umadevi. S</i>

E-D2-S2-OR440	10:45-11:00	Enhancement of Trans-conductance using Multi-recycle folded cascode amplifierN/A <i>Mayur T. Kalkote, Ananiahdurai S</i>
E-D2-S2-OR444	11:00-11:15	ASIC Design of MIPS Based RISC Processor for High Performance.....263 <i>Agineti Ashok , V.Ravi</i>
E-D2-S2-OR447	11:15-11:30	Nondestructive Read Circuit for Memristor based Memories....N/A <i>MarreddyGuru Saiprasad , V.Ravi</i>
E-D2-S2-OR450	11:30-11:45	A Built In Self Repair Architecture for Random Access Memories....N/A <i>Sanjay Patnaik, Ravi V</i>
E-D2-S2-OR451	11:45-12:00	Design and Verification of Memory Controller with Host WISHBONE Interface....N/A <i>Dinesh Katuri , Umadevi S</i>
E-D2-S2-OR452	12:00-12:15	8-Bit Asynchronous Wave-Pipelined Arithmetic-Logic Unit....N/A <i>P.Rahul, K.Prudhvi Raj, Umadevi S</i>
E-D2-S2-OR453	12:15-12:30	DPA resistance analysis of the cryptographic S-box implementation in static CMOS and TDPL logic style....281 <i>Chintalapudi Satish Kumar, Prathiba A, Kanchana Baskaran V</i>
E-D2-S2-OR454	12:30-12:45	ALU Design using Pseudo Dynamic Buffer based Domino Logic....289 <i>Sivakumar Akurati, A.Anita Angeline, V.S.Kanchana Baskaran</i>
E-D2-S2-OR516	12:45 –13:00	Design and Verification of AMBA AXI3 Protocol.....N/A <i>Shewta Sharma, Sakthivel</i>

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E-D2-S3-OR458	11:00-11:15	Implementation of Radix-2 Butterfly using Distributed Arithmetic algorithm (DAA)....N/A <i>Ketan Tarkas, Chetan Sharma, Oshin Metha, Augusta sophy</i>
E-D2-S3-OR459	11:15-11:30	An Area Efficient Design of Warped Filters....N/A <i>Kruttika Golwelker, Ritu Kumari, T.Vigneswaran</i>
E-D2-S3-OR460	11:30-11:45	High Performance Trench Gate Power MOSFET of Indium Phosphide....N/A <i>Geeta Tahalyani, Raghavendra Sahai Saxena, Vigneswaran T</i>
E-D2-S3-OR461	11:45-12:00	A current mode DC-DC Boost Converter with fast Transient and on-chip current sensing technique....N/A <i>S.Sudheer Sagar, P.Reenamonica</i>
E-D2-S3-OR462	12:00-12:15	Design Of Arithmetic And Logical Unit (Alu) Using Subthreshold Adiabatic Logic For Low Power ApplicationN/A <i>Anagh Deshpande, Vigneswaran T</i>
E-D2-S3-OR463	12:15-12:30	A Modified GDI Based Low Power & High Read Stability 8T SRAM Memory with CNTFET Technology....N/A <i>Apoorva Amdapurkar, Dinesh Wani, Pooja Shinde, Reena Monica</i>
E-D2-S3-OR470	12:30-12:45	Magnetic Braking System for Automotives....N/A <i>Arjun Nair, K.Srivatsan</i>

E-D2-S3-OR473 12:45-13:00 Design Of Sample And Hold For High Speed Analog To Digital Converter.....N/A
Patel Konarkkumar D, Augusta sophy P

13:00-14:00 LUNCH

14:00-19:00 Tour - Mahabalipuram

19:00-22:00 Banquet - Intercontinental Resort

Saturday, 25 March 2017

07:30-08:30 **Electronic Registration**

08:30-09:30 *Sensors and Actuators for HCI and VR: a few Case StudiesN/A*

D3-KN3

Daniel Thalmann

Institute for Media Innovation, Nanyang Technological University
 Singapore

Chair: Prabakaran SRS

09:30-09:45

Presentation by Sponsors - Tata Communications

09:45:10:00 Morning Break

10:00-10:30 *Rare earth doped semiconducting thin films for Si-based light-emitting devices.....N/A*

C-D3-IN3

Christopher Labbé

CIMAP CNRS/CEA/ENSICAEN/Normandie Université 6
 Bd Maréchal Juin, 14050 Caen Cedex 4, France

Chair: B. Bindu

10:30-12:00

Oral Paper Presentations and Poster Presentations

Session

Date/Time

Chair

Oral Session 1

Saturday 25th March 2017/10:30-12:00

Madhan Mohan P, Vigneswaran T

E-D3-S1-OR220

10:30-10:45

Design and Implementation of Multi-Bit Self-Checking Carry-Select Adder....N/A

Shivkumar Kavitar, Anita Angeline A, Kanchana Bhaskara V.S

E-D3-S1-OR243

10:45-11:00

A Novel Method for Design and Implementation of Low Power, High Stable SRAM cell....112

Ashish Kumar Sharma, V.Ravi

E-D3-S1-OR268

11:00-11:15

A Novel Adiabatic Logic for Low Power VLSI Circuit Design

E-D3-S1-OR302	11:15-11:30	and Power Optimization using FinFET....N/A <i>Bhuvana B P, Kanchana Bhaaskaran V S</i>
E-D3-S1-OR341	11:30-11:45	Adiabatic SRAM Cell and Array....N/A <i>Ayon Manna, V S Kanchana Bhaaskaran</i>
E-D3-S1-OR418	11:45-12:00	Integrated Mems Capacitive Pressure Sensor With On-Chip CDCfor A Wide Operating Temperature Range....N/A <i>Y.G.S. Sai Charan, S.Ananiahdurai</i>
		Analysis of VLSI Architecture For AI Based 1D/2D wavelet filter using Daub-6 Wavelet FilterN/A <i>Parimala</i>
Session Date/Time Chair		Oral Session 2 Saturday, 25th March 2017/10:30-12:00 Ananiahdurai S, A. Ravi Sankar
E-D3-S2-OR128	10:30-10:45	Design and Verification of ACK/ NAK Protocol of PCI Express Data Link Layer in System Verilog....N/A <i>S.Gokulakrishnan</i>
E-D3-S2-OR153	10:45-11:00	Design And Analysis Of On-Chip Low Power, Low Drop-Out Voltage Regulator Using Ffrc and MCC technique....N/A <i>Komal Nagda, Vijendra Maurya</i>
E-D3-S2-OR168	11:00-11:15	Resolvment of Power Quality Problems by Unified Power Quality Conditioner (UPQC)....N/A <i>Rohini Rajendra Dabhade, Pawan C. Tapre , C. Veeresh</i>
E-D3-S2-OR228	11:15-11:30	Performance Analysis Of Semi Supervised Approach In Dental Field....N/A <i>Sheeba M, P.Thirumurugan</i>
E-D3-S2-OR10	11:30-11:45	Design and Analysis of Memristor Based 12T SRAM Cell for low Power application....N/A <i>P.Radhika, SarikaDeepthi Kallam, T R Subramanian, Arvinth V</i>
E-D3-S2-OR40	11:45-12:00	VLSI Implementation of Adaptive Low Power Noise Cancellation for broadband portable audio devices....N/A <i>A R Saiprasad, Selvakumar J</i>
Session Date/Time Chair		Poster Session Saturday 25th March 2017/10:30-12:00 Mohanaprasad, Hemanth C, Gargi Raina, Uma Devi S
E-D3-S1-PO148	10:30-12:00	Design and Implementation of ADPLL for Digital Communication Applications....N/A <i>Abhishek Kumar Chaudhary, Manoj Kumar</i>
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12:00-13:00	Lunch
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Session Date/Time Chair	Oral Session 1 Saturday 25th March 2017/13:00-15:00 UshaBhanu N, Velmathi G
E-D3-S1-OR130	13:00-13:15 Real-time Automatic Peaks and Onsets Detection of Photoplethysmographic signalsN/A <i>P Madhan Mohan, V.Nagarajan, J.C.Vignesh</i>
E-D3-S1-OR361	13:15-13:30 Design of Ultra Low Voltage- Energy Efficient Hybrid Full Adder circuitN/A <i>M.MehaboobBasha, K.Venkata Ramanaiah, P. Ramana Reddy</i>
E-D3-S1-OR372	13:30-13:45 A comparative performance analysis of CAMs using different model files in Spice....191 <i>Tasneem Salam H, Ayoob Khan T. E, Nisha Kuruvila , Shahul Hameed T A</i>
E-D3-S1-OR376	13:45-14:00 Design of Current Mode CNTFET Transceiver for Bundled Carbon Nanotube Interconnect....N/A <i>P.Murugeswari, A.P. Kabilan. VE.Jayanthi</i>
E-D3-S1-OR384	14:00-14:15 MTCMOS based Soft Start Circuit for Low Leakage LED Driver with Minimum In-Rush CurrentN/A <i>P.Magesh Kannan, G. Nagarajan</i>
E-D3-S1-OR404	14:15-14:30 Weak Cell Detection Techniques for Memristor Based Memories.N/A <i>V.Ravi, SRS.Prabakaran</i>
E-D3-S1-OR408	14:30-14:45 High Performance Domino Logic Circuit Design by Contention Reduction.N/A <i>Anita Angeline A., KanchanaBhaaskaran V.S</i>
E-D3-S1-OR515	14:45-15:00 Pipelined and parallel architecture of reversible watermarking for grayscale imagesN/A <i>M. Murali, Ravi Sankar. A, Sakthivel. S. M</i>

Session Date/Time Chair	Oral Session 2 Saturday 25th March 2017/13:00-15:00 Augusta Sophy Beulet P, KaustabGhosh
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E-D3-S2-OR485	13:45-14:00 Optimization of Power and Energy in FinFET based SRAM Cell using Adiabatic Logic....394 <i>Sudharshan Patil, V S Kanchana Baskaran</i>
E-D3-S2-OR488	14:00-14:15 Clock Distribution Network Design for Single Phase Energy Recovery Circuits413

E-D3-S2-OR489	14:15-14:30	Nunna Yamini , P.Sasipriya, V S Kanchana Bhaaskaran FPGA masked S-Box implementation for AES engine....N/A Maneesha Jayakumar
E-D3-S2-OR513	14:30-14:45	Memristor augmented ReRAM Cell for Cross-bar Memory Architecture....456 Shashi kant Mishra, Satyajeet Sahoo, S.R.S Prabakaran
E-D3-S2-OR514	14:45-15:00	Memristor Equipped Error Detection Technique....N/A AninditaNayak, SatyajeetSahoo, SRS Prabakaran
Session	Oral Session 3	
Date/Time	Saturday 25 th March 2017/13:00-15:00	
Chair	Joy Vasantha Rani, Lakshmi B	
E-D3-S3-OR393	13:00-13:15	FPGA Implementation Of Reliable Multiplier Using Adaptive Hold Logic....N/A Chidammbara Eswari.S, P.Pradeepa, R. Prathipa, Revathi.S.R, V.Radhika, D.Devasena
E-D3-S3-OR205	13:15-13:30	Designing 5T Embedded DRAM Cells For Ultra Low Power Low Voltage ApplicationN/A Maria Dominic Savio, Snigdha Chandrika V
E-D3-S3-OR291	13:30-13:45	Test Signal Generation for Detecting Faults on Mil-std 1553 bus....N/A Sowmya Madhavan, S Sandya
E-D3-S3-OR73	13:45-14:00	Analytical Modeling of Gate Engineered Triple Material Gate (TMG) AlGaIn/GaN High Electron Mobility Transistors for CMOS Applications....N/A M.Venkatesh, K.Sowmya, N.B.Balamurugan, K. Sri Kalpa Virutcha
E-D3-S3-OR385	14:00-14:15	Implementation of Dual-Hysteresis Mode Flip-Flop Multivibrator Using Differential Voltage Current ConveyorN/A Amit Bhattacharyya
E-D3-S3-OR431	14:15-14:30	Design of a Hardware lock using Reversible logic....N/A GunajitKalita
E-D3-S3-OR519	14:30-14:45	A Preliminary Study Of Oscillators, Phase And Frequency Detector And Charge Pump For Phase Locked Loop (PLL) ApplicationsN/A Prithiviraj R
E-D3-S3-OR522	14:45-15:00	HDL Implementation of DSP Algorithm for Condition Monitoring of Rotating EquipmentN/A Swati Thapliyal, Santhana Raj, E. Chitra
15:00-15:15	Evening Break	
15:15-16:30	Valedictory	

ICNETS² 2017 – Symposium F Detailed Programme

Thursday, 23 March 2017

08:00-10:00	Electronic Registration
10:00-12:00	Inauguration Inaugural address and plenary talk <i>The recent achievements of ISRO and how India is placed in elite space club....N/A</i> Kunhikrishnan P, Director, Satish Dhawan Space Centre, ISRO, Sriharikota
12:00-12:15	Refreshments
12:15-13:15 D1-KN1	<i>Nadine: A social robot that can localize objects and grasp them in a human way....N/A</i> Nadia MagnenatThalmann Institute for Media Innovation, Nanyang Technological University (NTU), Singapore. Chair : KalyaniDesikan
13:15-14:00	LUNCH
14:00-16:30	Industry-Government-Academia forum Smart City Mission
16:30-16:45	Evening Break
16:45-17:15 F-D1-IN1	<i>From Terrestrial to underground wireless sensor networks: Design factors and transmission costN/A</i> AdamuMurtalaZungeru InternationalUniversityofScienceandTechnologyPrivate, Botswana Chair:S. Subashini
17:15-18:30	Oral Paper Presentation
Session Date/Time Chair	Oral Session 1 Thursday, 23rd March 2017/17:15 – 18:30 AdamuMurtalaZungeru,Vijayakumar P
F-D1-S1-OR32 17.15-17.30	Impact of Channel Estimation Errors on Performance Analysis of Adaptive OSTBC systems....N/A

F-D1-S1-OR80	17.30-17.45	<i>C.Padmaja, B.L.Malleswari</i> Secure Identity Management In Mobile Cloud Computing....42
F-D1-S1-OR99	17.45-18.00	<i>M.Suguna , S.MercyShalinie,R.Anusia, S.Deepti</i> Optimal Energy Saving through Joint Deployment of Relay Stations and Sleep Mode Activation in 4G LTE-A Networks....N/A
F-D1-S1-OR100	18.00-18.15	<i>Ratheesh R , P.Vetrivelan</i> Efficient Relaying for Enhanced Network Longevity for E-Health IoT Services in Medical Body Area NetworksN/A
F-D1-S1-OR89	18.15-18.30	<i>R. Latha, P.Vetrivelan</i> Fuel Monitoring, Vehicle Tracking and security system Using Arduino MegaN/A
<i>P.SivaNagendra Reddy, D.JayaKumar, G.N. KodandaRamaiah</i>		

Session

Date/Time

Chair

Oral Session 2

Thursday, 23rd March 2017/10:30 – 11:45

A.JohnPrakash, S. Malarvizhi

F-D1-S2-OR131	17.15-17.30	Public Integrity Auditing For Dynamic Data Shared In Group With User Revocation....N/A
F-D1-S2-OR155	17.30-17.45	<i>M.Suguna, S.MercyShalinie, R.Sivaranjani</i> Shortest path solution to Wireless sensor Networks using Edge based Three Point Steiner tree concept....N/A
F-D1-S2-OR166	17.45-18.00	<i>S.Sundar, V. Balakrishnan, R.Kumar, Harish M.Kittur</i> Energy Efficient Elliptic Curve Cryptography based DTLS Key Establishment Protocol for IoT CommunicationN/A
F-D1-S2-OR360	18.00-18.15	<i>PNV Karthik , Rajashree R, Vijayakumar Perumal, GanesanVeerappan</i> Efficient Data Collection using Dynamic Mobile Sink in Wireless Sensor Networks....N/A
F-D1-S2-OR91	18.15-18.30	<i>AlthiyaEby Irish , Sebastian Terence , Jude Immaculate</i> An effective new deployment strategy and new geometric routing for wireless sensor networkN/A
<i>P. Satheeslingam, S. Parthasarathi, K. Hariharan</i>		

18:30-18:45	Light Refreshment
18:45-19:45	Cultural Show
19:45-21:30	Amphitheatre Moon light Dinner

Friday, 24 March 2017

07:30-08:30	Electronic Registration
08:30-09:30 D2-KN2	<i>Data-driven analysis of collections of big datasets by the Bi-CoPaM method yields field-specific novel insights....N/A</i> Asoke K. Nandi Department of Electronic and Computer Engineering, Brunel University

London, London, UK

Chair: Chitra K

09:30:09:45 Presentation by Sponsors - Tenet Technetronics

09:40:10:00	Morning Break
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10:00-10:30
F-D2-IN2 *Cyber Situational Awareness for CPS, 5G and IoTxxvi*
Elizabeth Chang
University of New South Wales and Australian Defence Force
Academy, Canberra, Australia
Chair: P. Vetrivelan

10:30- 13:00 Oral Paper Presentations

Session Date/Time Chair	Oral Session 1 Friday, 24th March 2017/10:30- 13:00 Elizabeth Chang, Nayeemulla Khan	
F-D2-S1-OR195	10:30-10:45	Analysis On LTE/Wifi Data Offloading In Hetnets....N/A <i>PrasanthChittibabu, Subashini.S</i>
F-D2-S1-OR223	10:45-11:00	Contention-based CSI feedback mechanisms in MU-MIMO WLANs: A SurveyN/A <i>D.Srinivasa rao, V.Berlin Hency</i>
F-D2-S1-OR230	11:00-11:15	A Performance Comparison Of Routing Protocols Designed For Body Area Networks....108 <i>Arifa Anwar, D.Sridharan</i>
F-D2-S1-OR238	11:15-11:30	Synchronization analysis of Quadratic Chaotic based DSSS-CDMA System under Jamming AttackN/A <i>R.Priya, R.Kumar</i>
F-D2-S1-OR278	11:30-11:45	Mean Availability Parameter-based DDoS Detection Mechanism for Cloud Computing environmentsN/A <i>ArjunanAmuthan, HarikrishnaPillutla</i>
F-D2-S1-OR315	11:45-12:00	An Effective Dynamic Slot Allocation Scheme for Wireless Body Area NetworksN/A <i>M. Ambigavathi, D. Sridharan</i>
F-D2-S1-OR321	12:00-12:15	Enhancement of Security and Confidentiality for D2D Communication in LTE-Advanced Network using Optimized ProtocolN/A <i>Payal P. Tayade, Vijaykumar P</i>
F-D2-S1-OR169	12.15-12.30	Security Protocols for Internet of Things: A Survey....71 <i>SnehalDeshmukh, S. S. Sonavane</i>
F-D2-S1-OR101	12:30-12:45	Energy Efficient Shortest Path Routing Protocol for Wireless Sensor NetworksN/A <i>S. Parthasarathi, P. Sathees lingam ,K. Hariharan</i>
F-D2-S1-OR114	12:45-13:00	Secured Beacon Updation Using APU With AESN/A <i>B.NeeththiAadithiya, N.Suganthi</i>

13:00-14:00	LUNCH
14:00-19:00	Tour- Mahabalipuram
19:00-22:00	Banquet- Intercontinental Resort

Saturday, 25 March 2017

07:30-08:30	Electronic Registration
08:30-09:30 D3-KN3	<i>Sensors and Actuators for HCI and VR: a few Case StudiesN/A</i> Daniel Thalmann Institute for Media Innovation, Nanyang Technological University Singapore Chair: Prabakaran SRS
09:30-09:45	Presentation by Sponsors - Tata Communications
09:45-10:00	Morning Break
10:00-10:30 Invited	<i>IoT visionN/A</i> Eric Torres Global Vice president, New ventures, Tata Communications. Chair: S. Subashini
10:30-12:00	Oral Paper Presentations and Poster Presentation

Session Date/Time Chair	Oral Session 1 Saturday, 25th March 2017/10:30-12:00 Eric Torres, VetrivelanP	
F-D3-S1-OR371	10:30-10:45	The Design of a secure three factor authentication protocol for Wireless Sensor Networks....184 <i>NareshBabu M M, A.S.N. Chakravarthy, C. Ravindranath.</i>
F-D3-S1-OR382	10:45-11:00	Simple Transmit Diversity Techniques for Wireless Communications....N/A <i>Patteti Krishna, KommabatlaMahender, Tipparti Anil Kumar</i>
F-D3-S1-OR388	11:00-11:15	Dependency Analysis of Control Parameter Configuration on ISD and Random Mobility of UE in LTE-A Network....N/A <i>A.Saraswathi Priyadharshini A, P.T.V.Bhuvaneswari</i>
F-D3-S1-OR389	11:15-11:30	Throughput Analysis of MacroUE for Varied Transmit Power of Small Cell in Heterogeneous NetworkN/A <i>S.Ezhilarasi, P.T.V.Bhuvaneswari</i>

F-D3-S1-OR147	11:30-11:45	Multi Base Station Optimized Positioning for Black Hole Attacks in WSNN/A <i>SouravGarg, GaganSingla</i>
F-D3-S1-OR430	11:45-12:00	NR-DCSK Based MIMO Chaotic Communiation System.N/A <i>M. Sangeetha, NiharikaSaraff, KasturiLaxmiSaroja, AkankshaKedia.</i>
Session Date/Time Chair		Oral Session 2 Saturday, 25 March 2017/10:30-12:00 S.Geetha, Subashini.S
F-D3-S2-OR110	10:30-10:45	Gradient-Based Localization and Relay Nodes Selection in Delay Tolerant Mobile Opportunistic Networks For Emergency RescueN/A <i>C.P.Koushik, P.Vetrivelan</i>
F-D3-S2-OR192	10:45-11:00	Monitoring Sensor Nodes with COOJA simulator <i>Rajendranath.U, Berlin Hency.V</i>
F-D3-S2-OR118	11:00-11:15	A Connectivity Protocol for Star Topology Using WSN....50 <i>Induja k , A.Jaba Deva Krupa</i>
F-D3-S2-OR521	11:15-11:30	Energy Efficient Clusterong Protocol for Wireless Sensor NetworksN/A <i>BethireddyNavyaDeepika, K. Kalimuthu, R.Kumar</i>
F-D3-S2-OR281	11:30-11:45	Malicious Node Detection in Wireless Sensor Networks for High QoSN/A <i>PonnamHari Krishna, AnushaPinisetty</i>
F-D3-S2-OR121	11:45-12:00	Modelling and Performance Analysis of WIFI OffloadingN/A <i>Liji Jose and Hemanth C</i>
Session Date/Time Chair		Oral Session 3 Saturday, 25th March 2017/10:30-12:00 Sivasubraanian A, Berlin Hency V
F-D3-S3-OR481	10:30-10:45	Mathematical Analysis Of Adaptive Queue Length Based Traffic Signal ControlN/A <i>ShaikhKhajaMohiddin, Prasanth C, Gajendra Singh Rathore, Hemanth C</i>
F-D3-S3-OR490	10:45-11:00	Wireless Data Acquisition and Communication System for Automated Guided VehicleN/A <i>Sujay Ballal, Jagannath M, Arun Venkatesh K</i>
F-D3-S3-OR507	11:00-11:15	Energy Aware Joint relaying and Adaptive Resource Scheduling Strategies for Multimedia Traffics in LTE-A Networks....434 <i>MolabantiRamyaSree , P Vetrivelan, R Ratheesh</i>
F-D3-S3-OR432	11:15-11:30	Wearable Sensor Based Human Fall Detection Wireless System....N/A <i>Vaishna S Kumar , KavanGangadharAcharya, Sandeep B, Jayavignesh T, AshviniChaturvedi</i>
Session Date/Time Chair		Poster Session Saturday, 25th March 2017/10:30-12:00 Mohanaprasad, Hemanth C, GargiRaina, Uma Devi S
F-D3-S1-PO127	10:30-12:00	A Distributed Algorithm for Detecting Cuts without Data Loss in Wireless Sensor NetworksN/A <i>E. Anna Devi, J. Martin Leo Manickam</i>

F-D3-S1-PO132	10:30-12:00	Energy-Efficient Cluster Head Selection of LEACH Protocol for Wireless Sensor Networks....57 <i>Krishnakumar A, Anuratha V</i>
F-D3-S1-PO165	10:30-12:00	Energy Efficiency Of Single Cell And Multi Cell Massive MIMO System using MMSE Estimation66 <i>Shubhra Mandal, Sabitha Gauni</i>
F-D3-S1-PO176	10:30-12:00	Performance Analysis of MANET in The Presence of Malicious Nodes....79 <i>Bandana Kumari, D.Vydeki</i>
F-D3-S1-PO251	10:30-12:00	Virtual Grid Based Data Gathering Technique Using Mobile Agent (VGDG-MA)....126 <i>Keerthika A, Berlin Hency V</i>
F-D3-S1-PO343	10:30-12:00	Analysis Of OFDM Systems For High Bandwidth Application....168 <i>K.Nagarajan, Dr S.Sophia, V.Vinod Kumar</i>
F-D3-S1-PO392	10:30-12:00	Accidental Identification and Navigation System in Helmet...202 <i>V.Vishwanth, G.Vishnu, V.Kishoreswaminathan, A.Ajay, K.Srinivasan, S.Jeevanantham</i>
F-D3-S1-PO102	10:30-12:00	Improving Energy Efficiency of Virtual Resource Allocation in Cloud DatacenterN/A <i>N.Mahendran, T.Mekala</i>
F-D3-S1-PO115	10:30-12:00	Perception of internet usage and its impact on cyber-crime in Sri LankaN/A <i>Samadara Kuruppu Arachi</i>
F-D3-S1-PO320	10:30-12:00	Anonymous Protection Using Clustering In MANETsN/A <i>Berlin A, KeralShalini V</i>

12:00-13:00	Lunch
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Session Date/Time Chair	Oral Session 1 Saturday, 25th March 2017/13:00-15:00 N.Edna Elizabeth, Berlin Hency.V	
F-D3-S1-OR390	13:00-13:15	Mobile Fool-Proof Billing at SupermarketsN/A <i>Abhiyukthana M, Poovizhichelvi C., Sindhuja P, K.Srinivasan, B. Sharmila, R. Ramya</i>
F-D3-S1-OR395	13:15-13:30	Energy Efficient Data Compression and Aggregation Technique for Wireless sensor Networks....209 <i>B.Karthikeyan, R. Kumar, Srinivasa Rao Inabathini</i>
F-D3-S1-OR397	13:30-13:45	Energy Efficient-based optimizing cluster head selection by geometric based mechanism and implementation using soft computing techniques....N/A <i>S.Famila, A. Jawahar</i>
F-D3-S1-OR399	13:45-14:00	Physical layer aspects of 4G-LTE cellular networks based on SC-FDMAN/A <i>GBSR Naidu, V Malleswara rao</i>
F-D3-S1-OR406	14:00-14:15	DNA Computing based Multimedia Data Encryption Method for Wireless Multimedia Communication SystemN/A <i>AkondiVyasaBharadwaja, V. Ganesan</i>
F-D3-S1-OR420	14:15-14:30	Enhancement of QOS parameters in cluster based Wireless Sensor Network using co-operative MIMON/A <i>Guhan.R, Hari.U, Ramachandran.B</i>

F-D3-S1-OR422	14:30-14:45	BER Performance Analysis Of Short Reference Differential Chaos Shift Keying Scheme Using Various Maps In Rayleigh Fading Channel ConditionsN/A <i>M. Sangeetha, Toshiba Chamoli, P. Vijayakumar</i>
F-D3-S1-OR237	14:45-15:00	An Early Warning System for Traffic and Road Safety Hazards using Collaborative Crowd Sourcing....N/A <i>Pooja P.R, BalajiHariharan</i>

15:00-15:15	Evening Break
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15:15-16:30	Valedictory
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