Session 1 **May 13th, 2015**
LT2 Area **10:00-11:00 AM**

Communications and Networks	
Dong Bo	Long Distance Fiber Fabry–Perot Sensor System with the Second-order Raman Pump and Amplification
Hu Qikai	50-km Transmission of 10-Gb/s Spectrum-Sliced Incoherent Light Signals Using Electronic Dispersion Compensation
V Prasad Anjangi	Scheduling Algorithm with Transmission Power Control for Random Underwater Acoustic Networks
Wang Qian	Symbol Error Probability for Rotated 8-Star QAM with Circular Decision Boundaries in Strong Laser Phase Noise
Yinghao Guo	Optimal Pricing and Load Sharing for Energy Saving with Communications Cooperation
Zhou Jingjing	1.5-μm, 21.4-Gbps 4-PAM VCSEL Link for Optical Access Applications

Control, Intelligent Systems, and Robotics	
Chen Wang	Adaptive Optimal Control of Nonlinear Discrete-time Systems with Online System Identification
Du Xinxin	Vision Approach towards Fully Self-Reverse Parking System
Ke Yijie	Conceptual Design Approach for a Morphing Aircraft J-Lion with VTOL and Fixed-Wing Flight Capabilities
Li Xuefang	Iterative Learning Control for a Class of Inhomogeneous Heat Equation
Lim Pin	A Time Window Neural Network Based Framework for Remaining Useful Life Estimation
Yan Hengchao	Gamma Process with Recursive MLE for Wear PDF Prediction in Precognitive Maintenance under Aperiodic Monitoring
Yan Weili	A General Multirate Approach for Direct Closed-loop Identification to the Nyquist Frequency and Beyond
Goh Sim Kuan	Evolutionary Big Optimization (BigOpt) of Signals
Gee Sen Bong	Application of MOEA/D on Multi-objective Vehicle Routing Problem
Xiao Shengtao	Adaptive Object Learning for Robot Carinet
Zhang Chong	A Data-driven Health State Classification Approach for Failure Diagnosis
Li Xian	A Dynamic Model for Liquid Desiccant Dehumidifier

Session 2 **LT2 Area**	**May 14th, 2015** **10:00-11:00 AM**
Microelectronics Technologies and Devices	
Ang Wei Kean	Direct Ray Tracing of Scanning Electron Microscope Optics from Cathode-tip to Specimen
Banerjee Karan Dhrubojoti	Magnetic Proximity in the Topological Insulator BiSbTeSe2
Dihan Md. Nuruddin Hasan	Fabrication and Characterization of Fractal Inspired Designs of Plasmonic Nanostructures
Dong Yuan	Germanium-tin on Silicon p-i-n Photodiode with Low Dark Current due to Sidewall Surface Passivation
Gao Minmin	Green Chemistry Synthesis of a Nanocomposite Graphene Hydrogel with Three-Dimensional Nanomesopores for Photocatalytic H2 Production3
Goh Kian Hui	First Demonstration of Vertically Stacked III-V Nanowire CMOS Integrated on a Common Si Platform
Han Weiding	Investigation of Electron Optics in Electron Energy Analyzer Due To Axis Misalignment
Li Chengguo	Growth and Characterizations of Indium Nitride Grown on Different Buffer Layers by Metal-organic Chemical Vapour Deposition
Liu Zhe	Impact of Rear Internal Reflectance on Photocurrent in Silicon Wafer Solar Cells
Prakash Pitchappa	Electromechnically Reconfigurable Terahertz Metamaterial with Polarization Insensitive Characteristics
Wang Hao	Convection-driven Long-range Linear Gradient Generator with Dynamic Control Function
Weimin LI	Molybdenum Back Contact with TiNx Diffusion Barrier Layer for CIGS Solar Cells
Yang Li	Quantitative Analysis and Prediction of Experimental Observations on Quasi-static Hysteretic Metal-Ferroelectric-Metal-Insulator-Semiconductor FET based on Landau Theory
Zhang Xiaoyi	Performance Simulation of Novel Devices with Improved Top of Barrier Model and Real-space Atomistic Potential Profile
Zhao Yunshan	Anisotropy in Thermal Conductivity of Phase Change $Ge_2Sb_2Te_5$ Nanowires
Microwave and Radio Frequency	
Song Jian	Investigation of MIL-STD-461F CS101 Test Using FFT Enabled Oscilloscope
Wei Zhun	Analysis of Tip-Sample Interaction in Microwave Impedance Microscopy by Lumped Element Model
Lin Fenghan	Microstrip to Bilateral Slotline Transition with Extremely Wide Bandwidth
Ashraf Abdulrahman Adam Salih	Analysis of Radiation Efficiency of Closely Spaced Dipole Elements Using the Theory of Characteristic Modes
Gu Yinghong	Double-merging of Magnetic and Electric Dipole Resonances for All-dielectric Antenna Array
Lei Wen	A Circular Polarized Ground Radiation Antenna for Biomedical Applications
Communications and Networks	
Vinay Chamola	Outage Estimation for Solar Powered Cellular Base Stations

Session 3 **May 14th, 2015 LT2 Area**
04: 00-5: 00 PM

Power and Energy Systems	
Amit Kumar Singh	A High Power Density Three Phase AC-DC Rectifier for More Electric Aircraft (MEA)
Dhivya Sampath Kumar	Stability Analysis of Power System with High Penetration of Photovoltaic Generation
Anurag Sharma	A Decentralized Multi-Agent System Approach for Service Restoration Using DG Islanding
Ravi Kiran Surapaneni	A Novel Single-Stage Isolated PWM Half-Bridge Microinverter for PV Systems
Radha Sree Krishna Moorthy	Hybrid Modulated Extended Secondary Universal Current-fed Converter (ESUC) for Wide Voltage Range
Shang Ce	Economic and Environmental Voyage of All-Electric Ships
Farshad Rassaei	Demand Response for Residential Electric Vehicles with Random Usage Patterns in Smart Grids
Jayantika Soni	Electric Springs for Voltage and Power Stability and Power Factor Correction
Satarupa Bal	Modular Snubberless Bidirectional Soft-switching Current-fed Dual 6-Pack (CFD6P) DC/DC Converter

Signal Processing and New Media	
Huang Junshi	Deep Domain Adaptation for Describing People Based on Fine-Grained Clothing Attributes
Yuan Jun	A Mixed Spatial-Temporal Model for Human Action Recognition
Jiang Ming	Saliency in Crowd
Tran Lam An	Human Foreground Extraction for Action Recognition
Zhou Qiang	Flexible Clustered Multi-Task Learning by Learning Representative Tasks
Fang Fan	A RANSAC-based Method for Optic Cup Segmentation in Retinal Images
Tan Hui Li	A MSE-based Image Quality Metric

Integrated Circuits and Embedded Systems	
Liu Yuhang	A Multimodal Imaging for Evaluating the Effects of Sensory Stimulation for Stroke