

SESSION 1

DATE: 27th February, 2013

TIME: 10:30 AM – 12:30 PM

TRACK - 1	Communications & Networks	LOCATION: EA-06-02
1.	Lin Xuzheng	Error Performance Analysis of Differential Detection for Amplify-and-Forward Relay Systems
2.	Nguyen Duy Hieu	Effect of Receive Spatial Diversity on the Degrees of Freedom Region in Multi-Cell Random Beamforming
3.	Shengjiao Cao	Full-Range Pilot-Assisted Frequency Offset Estimation for OFDM Systems
4.	Song Tianyu	Receiver Design for FSO IM/DD Channel
5.	Wu Tong	Joint and Separate Detection-Decoding on BPMR Channels

SESSION 1

DATE: 27th February, 2013

TIME: 10:30 AM – 12:30 PM

TRACK - 2	Control, Intelligent Systems & Robotics	LOCATION: EA-06-03
1.	Ang Kar Tien	Development of confocal 3D profilometers for microfluidic devices
2.	Arun Kumar Chandran	Vision based Analysis of Crowd as Pedestrian Groups
3.	Henry Tan	Study of web guide slippage phenomena in roll-to-roll system
4.	Kumar Yogaprakash	Smart Indoor Localisation Technology
5.	Liang Wenyu	Surgical Device for Office-based Treatment of Otitis Media with Effusion

SESSION 1

DATE: 27th February, 2013

TIME: 10:30 AM – 12:30 PM

TRACK - 3	Microelectronic Technologies & Devices	LOCATION: EA-06-04
1.	Guo Yan	Effects of Thickness and Dielectrics in GaSb DG-UTB NMOS
2.	Soon Bo woon	Nanoelectromechanical Toggle Switch for Non-volatile Memory Application
3.	Mehrdad Elyasi	Multi-bit Non-volatile Memory Cell Using Non-anchored Transduction
4.	Shimon	Fabrication and Reversal Mechanisms of Coupled Bi-Component Magnetic Dots

SESSION 1

DATE: 27th February, 2013

TIME: 10:30 AM – 12:30 PM

TRACK - 4	Microelectronic Technologies & Devices	LOCATION: EA-06-05
1.	Yun-Hsiang Wang	Analytical Modelling of High Temperature Characteristics on the DC Responses in AlGaIn/GaN HEMT Devices
2.	Pannirselvam S/O Somasuntharam	Study of Surface Passivation on AlGaIn/GaN MOS-HEMT
3.	Ang Shan Zheng	Power-Spectrum Estimation for Optomechanical Force Sensing
4.	Lee Hui Min	Impact of TSV Induced Thermo-mechanical Stress on Semiconductor Device Performance

SESSION 1

DATE: 27th February, 2013

TIME: 10:30 AM – 12:30 PM

TRACK - 5	Microwave & RF	LOCATION: EA-06-06
1.	Chen Rui	Aplanatic solid immersion lens scanning microscope for failure analysis of integrated circuits
2.	Hua Peng Ye	Application of Vectorial Rayleigh-Sommerfeld Integral to Design Planar Lens for Subwavelength Longitudinal Beam
3.	Muhammad Qasim Mehmood	Far field Light Twisting and focusing by log spiral lens
4.	Song Jian	Evaluation of Connectors' Uncertainties in EMC Measurement
5.	Zhao Jiajun	Acoustic Wavefront Manipulation: Impedance Inhomogeneity and Extraordinary Reflection

SESSION 1

DATE: 27th February, 2013

TIME: 10:30 AM – 12:30 PM

TRACK - 6	Signal Processing & New Media	LOCATION: EA-06-07
1.	Abeykoon Mudiyansele	Automatic Cardiac Motion Analysis in Tagged MRI
2.	Atieh Bamdadian	Pre-cue EEG data predicts the performance of MI-based BCI
3.	Nguyen Van Tam	Context-aware Action Recognition in Kitchen Environment
4.	Wang Yuxiang	Stability of Matrix Factorization for Collaborative Filtering

SESSION 1

DATE: 27th February, 2013

TIME: 10:30 AM – 12:30 AM

TRACK - 7 Power & Energy Systems

LOCATION: EA-01-06

1.	Chia Meng Hwee	Applications of Matrix Pencil Method on Power System Signals
2.	Jeevan Adhikari	Harnessing High Altitude Wind Energy Using Light Gas Filled Blimp For Off Grid Power Generation
3.	Li Yuling	Influence of Gate Drive on Pulsed Current Collapse Recovery in AlGaN/GaN Power HEMTs
4.	Pan Xuwei	Novel Interleaved Bidirectional Snubberless Soft-switching Current-fed Full-bridge Voltage Doubler for Fuel Cell Vehicles
5.	Shu Zhen	Optimal Sizing of Energy Storage System for Wind Power Plants

SESSION 2

DATE: 27th February, 2013

TIME: 1:30 PM – 3:30 PM

TRACK - 1	Communications & Networks	LOCATION: EA-06-02
1.	Neda Edalat	Combinatorial Auction-Based Task Allocation in Multi-Application Wireless Sensor Networks
2.	Alvin C. Valera	ETD: A Sleep Latency and Link Quality Aware Metric for Environmentally-Powered Wireless Sensor Networks
3.	Wu Gaofeng	Power-Profile-Aware Integrated Routing with Traffic Splitting in IP over WDM Networks
4.	Yu Wang	Cooperation-Based Asynchronous Directional MAC for Ad Hoc Networks with Considering Minor-Lobe Interference
5.	Anshoo Tandon	On the impact of channel coding on average packet delay in a polling based multiple access system

SESSION 2

DATE: 27th February, 2013

TIME: 1:30 PM – 3:30 PM

TRACK - 2	Control, Intelligent Systems & Robotics	LOCATION: EA-06-03
1.	Hu Jun	A Hierarchical Organized Memory Model with Spiking Neurons
2.	Mohammadreza Chamanbaz	A Sequential Randomized Algorithm for Convex Optimization in the Presence of Uncertainty
3.	Ramesh Bharath	Scalable Scene Understanding Using Saliency-Guided Object Localization
4.	Wang Xiaoqiong	Computational Load Comparison of Multiplexed MPC and Standard MPC
5.	Yu Chao	Improved System Identification with Renormalization Group

SESSION 2

DATE: 27th February, 2013

TIME: 1:30 PM – 3:30 PM

TRACK - 3	Microelectronic Technologies & Devices	LOCATION: EA-06-04
1.	Yeo Jueyuan Reuben	Tribological and corrosion performance of surface modified commercial hard disk media
2.	Maria Patricia Rouelli Garcia Sabino	Effects of lateral size and material properties on the ferromagnetic resonance response of spinwave eigen-modes in magnetic devices
3.	Meng Zhaoliang	Perpendicular magnetized CoFe/Pd multilayer films for spin-transfer torque applications
4.	Loong Li Ming	The effects of buffer layer materials on Co₂FeAl_{0.5}Si_{0.5} Heusler thin films

SESSION 2

DATE: 27th February, 2013

TIME: 1:30 PM – 3:30 PM

TRACK - 4	Microelectronic Technologies & Devices	LOCATION: EA-06-05
1.	Huang Wen	Thermoelectric Performance of Transition-Metal Dichalcogenides
2.	Lwin Min Kyaw	Gold-free InAlN/GaN Schottky Gate HEMT on Si (111) Substrate with ZrO₂ Passivation
3.	Cheng Ran	A New Liner Stressor (GeTe) featuring Stress Enhancement due to Very Large Phase-Change Induced Volume Contraction for p-Channel FinFETs
4.	Goh Kian Hui	Selective Growth of Gallium Arsenide on Germanium Fins with Different Orientations

SESSION 2

DATE: 27th February, 2013

TIME: 1:30 PM – 3:30 PM

TRACK - 5	Microwave & RF	LOCATION: EA-06-06
1.	Huang Guanlong	Design of Waveguide Feed-Network For Low Sidelobe Array Antenna Application
2.	Lu Wei Jia	A Wideband Compact Broadside Coupler-based Impedance Transformer with 6:1 Bandwidth
3.	Ramanan Balakrishnan	Multiple polarization capabilities of sinuous antennas
4.	Sun Hucheng	An Adaptive Reconfigurable Rectifier for Wireless Power Transmission

SESSION 2

DATE: 27th February, 2013

TIME: 1:30 PM – 3:30 PM

TRACK - 6	Signal Processing & New Media	LOCATION: EA-06-07
1.	Cai Lile	Automatic Transfer Function Design Based on Histogram Segmentation and Visibility Distribution
2.	Lee Choon Meng	Motion Segmentation
3.	Rakesh Shiradkar	Reflectance based classification of ink strokes in a document
4.	MohammadReza Keshtkaran	Adaptive Power Line Interference Cancellation in Neural Recording

SESSION 2

DATE: 27th February, 2013

TIME: 1:30 PM – 3:30 PM

TRACK - 7 Power & Energy Systems

LOCATION: EA-01-06

1.	Gu Chaojun	Impacts of Communication Failure on Power System Operations
2.	Krishnanand Kaippilly Radhakrishnan	A Real-Time Fast Discrete S-Transform for Cross-Differential Protection of Shunt-Compensated Power Systems
3.	Quan Hao	Construction of Neural Network-Based Prediction Intervals for Short-Term Electrical Load Forecasting
4.	Yu Yinquan	Vibration Study and Classification of Rotor Faults in PM Synchronous Motor

SESSION 3

DATE: 27th February, 2013

TIME: 4:00 PM – 6:00 PM

TRACK - 1	Communications & Networks	LOCATION: EA-06-02
1.	Yu Yi	OSNR Monitoring in High-Speed Optical Transmission Systems by Using Novel Notch Filter Effect
2.	Xu Zhuoran	Adaptive Maximum Likelihood Sequence Detection in 100-Gb/s Coherent Optical Communication Systems
3.	Le Sy Quoc	Capacity region of the symmetric linear deterministic interference channel with partial feedback
4.	Aissan Dalvandi	Joint Flow Scheduling and VM Placement for Maximizing Data Center Power Efficiency
5.	Jia Chenlong	Energy Harvesting Ad Hoc Networks: Outage Probability and Network Connectivity

SESSION 3

DATE: 27th February, 2013

TIME: 4:00 PM – 6:00 PM

TRACK - 2	Control, Intelligent Systems & Robotics	LOCATION: EA-06-03
1.	Chen Qiang	Efficient Maximum Appearance Search for Large-Scale Object Detection
2.	Gee Sen Bong	A Novel Diversity Maintenance Scheme for Evolutionary Multiobjective Optimization
3.	Vu Hoang Dung	Influence Function Analysis of Parameter Estimation with Generalized t Distribution Noise Model
4.	Yang Yue	Robust Identification of Piecewise Affine Systems from Noisy Data
5.	Yu Qiang	Temporal Coding of Local Spectrogram Features for Robust Sound Recognition

SESSION 3

DATE: 27th February, 2013

TIME: 4:00 PM – 6:00 PM

TRACK - 3	Microelectronic Technologies & Devices	LOCATION: EA-06-04
1.	Ding Junjia	Magnonic Crystals Based on Binary Ferromagnetic Nanostructure
2.	LIU Xinming	Static and Dynamic Behaviors of Fe Filled Ni₈₀Fe₂₀ Antidot Nanostructures
3.	Phua Wee Kee	Voltage modulated Metal-Insulator-Metal waveguide
4.	Mai Trong Thi	DYNAMICS OF WICKING ON SILICON NANOSTRUCTURED SURFACES

SESSION 3

DATE: 27th February, 2013

TIME: 4:00 PM – 6:00 PM

TRACK - 4	Microelectronic Technologies & Devices	LOCATION: EA-06-05
1.	Meng Lei	Single Contact Electron Beam Induced Current Imaging on Solar Cells
2.	Teo Yu Han	Visible light-driven photocatalytic water splitting
3.	Naomi Nandakumar	Investigation of the origin of fixed charge in Al₂O₃ films using EELS
4.	Guo Li	Fabrication of Nickel nanowires using anodic alumina template on ITO/glass substrate for electrochromic applications

SESSION 3

DATE: 27th February, 2013

TIME: 4:00 PM – 6:00 PM

TRACK - 6	Signal Processing & New Media	LOCATION: EA-06-07
1.	Wu Zhe	Utilize Intensity Profile in Shadow Removal
2.	Yunghans Irawan	Just Shoot Me: User Study on Visual Interactive Questioning Using Smartphone Camera
3.	Seetha Krishnan	Representation of olfactory cues in the zebrafish habenula
4.	Xu Mengdi	Touch Saliency

SESSION 4

DATE: 28th February, 2013

TIME: 9:00 AM – 11:00 AM

TRACK - 1	Integrated Circuits & Embedded Systems Circuits	LOCATION: EA-06-02
1.	Ang Zhi Ping	High Speed Video Processing Using Fine-Grained Processing on FPGA Platform
2.	Anup Kumar Das	Communication and Migration Energy Aware Design Space Exploration for Multicore Systems with Intermittent Faults
3.	Anup Kumar Das	Energy-Aware Task Mapping and Scheduling for Reliable Embedded Computing Systems

SESSION 4

DATE: 28th February, 2013

TIME: 9:00 AM – 11:00 AM

TRACK - 3	Microelectronic Technologies & Devices	LOCATION: EA-06-04
1.	Yang Jing	Magnetic-electric interference in metal-dielectric-metal oligomers
2.	Wang Hao	Development of stretchable membrane based nanofilter using patterned array of vertically grown carbon nanotubes
3.	Xiang Zhuolin	Development of Vertical SU-8 Microtubes Integrated with Dissolvable Tips for Transdermal Drug Delivery
4.	Kwadwo Konadu Ansah-Antwi	High quality semipolar GaN epilayer grown on spatially exposed Si(111) surfaces on a Si(100) substrate

SESSION 4

DATE: 28th February, 2013

TIME: 9:00 AM – 11:00 AM

TRACK - 4	Microelectronic Technologies & Devices	LOCATION: EA-06-05
1.	Huang Jian	Enhanced Photoluminescence by Surface Plasmon Excitation in Gold Capped InGaAs Quantum Disk Array
2.	Tang Jie	Determination of the electron and hole effective mass from n-type and p-type ZnO thin film by Terahertz Time Domain Spectroscopy
3.	Gaurav Gupta	Role of Acoustic Phonons in Resistance of Bi₂Se₃ Topological Insulators
4.	Chen Yiguo	Controlling resonance in plasmonic nanoantenna arrays by phase change materials

SESSION 5

DATE: 28th February, 2013

TIME: 9:00 AM – 11:00 AM

TRACK - 1	Control, Intelligent Systems & Robotics	LOCATION: EA-06-02
1.	Teong Beng Koay	Energy efficient path planning in coastal waters
2.	Ang Zong Yao Kevin	Power line detection on an Urban Unmanned Aerial Vehicle
3.	Li Kun	Platform Design and Mathematical Modeling of an Ultra-light Micro Aerial Vehicle
4.	Andras Gabor Kupcsik	Data-Efficient Contextual Policy Search for Robot Movement Skills
5.	Elham Saadatian	Translating the meaning of infant's cries

SESSION 5

DATE: 28th February, 2013

TIME: 12:00 PM – 2:00 PM

TRACK - 2	Integrated Circuits & Embedded Systems Circuits	LOCATION: EA-06-03
1.	Liu Xiayun	A 900MHz ISM band QPSK/16-QAM Energy-Efficient Transmitter for Biomedical Application
2.	Mahmood Khayatzadeh	A 0.7-V 17.4-uW 3-Lead Wireless ECG SoC
3.	Ng Kian Ann	A low input capacitance and compact neural recording amplifier with a $C_{in}/Gain$ ratio of 20fF.V/V.
4.	Pan Rui	A Prototype Wireless Body Area Network for Healthcare Applications
5.	Zhang Zhe	Energy harvesting techniques for low power SOC's

SESSION 5

DATE: 28th February, 2013

TIME: 12:00 AM – 2:00 PM

TRACK - 3	Microelectronic Technologies & Devices	LOCATION: EA-06-04
1.	Liu Yi	Ti/Al Ohmic Contacts on n-GaN by Two-Step Annealing
2.	Wang Yue	Graphene Nanostructure Imaging and Fabrication with Focused He⁺ Beam
3.	GU JING	Application of the Helium Ion Microscope to biological sciences
4.	Qian You	The effects of interlayer mismatch on electronic properties of bilayer armchair graphene nanoribbons
5.	Lim Fang Jeng	Influence of novel fluorosurfactant modified PEDOT:PSS hole transport layer on the performance of inverted organic solar cells

SESSION 5

DATE: 28th February, 2013

TIME: 12:00 AM – 2:00 PM

TRACK - 4	Microelectronic Technologies & Devices	LOCATION: EA-06-05
1.	LEONG WEI SUN	Low-Contact-Resistance Contacts to Graphene via Metal-Mediated Etching
2.	Low Kain Lu	Electronic Band Structure and Effective Mass Parameters of Ge_{1-x}Sn_x Alloys
3.	Shubham Duttagupta	Progress with industrially-feasible surface passivation of moderately and heavily-doped Czochralski silicon using plasma silicon nitride
4.	Tung Kar Hoo Patrick	Photoluminescence of self-assembly GaAs quantum rings grown by droplet epitaxy
5.	Tung Kar Hoo Patrick	Optical emission from GaAs nanorings grown by droplet epitaxy

