

**2011 7th International Conference on MEMS, NANO and Smart
Systems**

(ICMENS 2011)

**2011 International Conference on Embedded System and
Microprocessors**

(ICESM 2011)

**2011 International Conference on Electronics, Networks and
Computer**

(ICENC 2011)

Grand BlueWave Shah Alam

Kuala Lumpur, Malaysia

November 4-6, 2011

Sponsored and Published by



Registration Only: November 4, 2011 (Friday)**Main Hall of Grand BlueWave Shah Alam**

10:00 – 17:00	Arrival and Registration
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Note: (1) You can also register at any time during the conference.

(2) Certificate of Participation can be collected at the registration counter.

(3) The organizer won't provide accommodation, and we suggest you make an early reservation.

Morning, November 5, 2011 (Saturday)

Venue: Seruling, Level 3, Convention Center

09:00 - 09:30	Opening Remarks
09:30 - 10:15	Keynote Speech I Prof. Ma Maode Nanyang Technological University, Singapore
10:15 - 10:30	Taking Photo & Coffee Break
10:30 - 11:15	Keynote Speech II Dr.S.Arumuga perumal M.Sc.M.S.(Software Systems),M.Phil, Ph.D., SMIEEE, FIE, FIETE Head,Department of Computer Science S.T.Hindu college,Nagercoil-2
11:15-12:00	Keynote Speech III Prof. Adrian Olaru University Politehnica of Bucharest, Romania

12: 00 - 13: 30	Lunch
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Afternoon, November 5, 2011 (Saturday)

SESSION – I (ICMENS)

Venue: Convention Room 1

Session Chair:

Time: 13:30 – 15:30

E002	Performance prediction of Eureka-147 DAB System Using Interleaving and Different Coding Rates Arun Agarwal and S.K. Patra Department of Electronics and Communication Engineering, National Institute of Technology
E007	B-Value Analysis of AE Signal Subjected to Stepwise Loading Noorsuhada Md Nor , NorazuraMuhamad Bunnori, Azmi Ibrahim, Shahiron Shahidan, SitiRamziah Basri and Soffian Noor Mat Saliah SIKSHA 'O' ANUSANDHAN UNIVERSITY
E009	Health Index Evaluation on Acoustic Emission Signal for Concrete Structure by

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	Intensity Analysis Method Shahiron Shahidan , Norazura Muhamad Bunnori, Noorsuhada Md Nor and Siti Ramziah Basri BATU 1 JALAN SANTAN KAMPUNG TANJUNG
E012	Physical Characteristic Analysis of Solenoid-Based Coil Structure Nadzril Sulaiman , Jumril Yunas, Gandi Sugandi and Burhanuddin Yeop Majlis Institute of Microengineering and Nanoelectronics, Universiti Kebangsaan Malaysia
E015	The Role of MgCl ₂ in preparation of SnO ₂ , MgSnO ₃ and Mg ₂ SnO ₄ Nanopowders Ali. taherkhani and A.Taheri Asghari Islamic Azad University, Takestan Branch, Iran
E019	Investigation of the Impact of Smart Packaging on Performance in Deteriorating Items Supply Chain Ali Rahimi Fard and Babak Yousefi Yegane Department of Industrial Engineering, Malayer Branch, Islamic Azad University, Malayer, Iran
E023	Design and Simulation of RF-MEMS Tunable Capacitors Using Multiple Voltage Sources Neda Mohabbatian and Ebrahim Abbaspour-Sani Urmia University,Iran
E024	Design of Stictionfree - Lower Pull in Voltage RF MEMS Switch Using Varying Section Cantilever Beam M.Manivannan , R.Joseph Daniel and K.Sumangala Annamalai University
E025	Design and Simulation of RF MEMS Tunable Spiral Inductor Sholeh Gholamian and Ebrahim Abbaspour-Sani Urmia University,Iran
E026	Fabrication and Reaction Efficiency Evaluation of Nano/Micro Structure with Carbon Nanotubes for Micro Bio Analysis Tatsuya Sameshima, Takuya Yabe and Ming Yang Tokyo Metropolitan University

15: 30 - 15: 40	Coffee Break
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Afternoon, November 5, 2011 (Saturday)

SESSION – II (ICMENS)

Venue: Convention Room 1

Session Chair:

Time: 15:40 – 18:30

E027	Carbon Nanotubes Reaction Fields for Open Well Biochemical Analysis System
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	Takashi Ikushima and Ming Yang Tokyo Metropolitan University
E030	Slow Light in Vertically Coupled Resonator of Conical Rod Portion Nor Ain Husein , Saktioto Zulfadzli Yusoff and Jalil Ali Advanced Photonic Science Institute (APSI), Universiti Teknologi Malaysia
E032	Free Vibration of a Carbon Nanotube-based Mass Sensor Payam Soltani , Omid Pashaei, Mohammad Mehdi Taherian and Anoushiravan Farshidianfar Islamic Azad University- Semnan branch/ Ferdowsi University of Mashhad
E033	An Investigation of Molecular Interactions between Zinc Phthalocyanine Thin Film and Various Oxidizing Gases for Sensor Applications Rawat Jaisutti and Tanakorn Osotchan Mahidol University
E1015	Comparison on the Electrical, Structural and Optical Properties of CuI Thin Films Deposited by Spin Coating and by Atomization Method Nur Amalina Muhamad , Muhammad 'Atiq Azman, Uzer Mohd Noor and Mohamad Rusop Mahmood Universiti Teknologi Mara (UiTM) Malaysia
E1004	Switchable Bandpass Filter with Capacitive MEMS Switches and EBG Structures Z. Taheri and K. Maphinejad Ferdowsi university of Mashhad
E1006	Assisted optimization of the new robot dynamic parameters with neural smart damper Adrian Olaru and Serban Olaru University Politehnica of Bucharest, Romania
E1008	Electro-Optic Tuneable of Direct Current Voltage in Ring Resonator A. Mohamad , M. S. Roslan, Saktioto and Jalil Ali Universiti Teknologi Malaysia
E1009	Modification Model of Soliton Pulse for Higher Order Muhammad Sufi , Azam Mohamad, Saktioto and Jalil Ali Universiti Tekologi Malaysia
E1010	The Effect of Asymmetry on Particle Focusing in Microchannels Levent Trabzon , Huseyin Kizil, Levent Yobas, Arzu Ozbey, Mustafa Yilmaz, Meral Cengiz, Metin Trabzon, Mustafa Ordu and Nihat Kaygusuz Istanbul Technical University
E1012	Research on the Mechanics Researc of a Novel Pulsed Liquid Micro-injection System Lv Yonggui and Chen Kai Hangzhou Dianzi University
E1013	Theoretical Charge Control Investigations in InN-Based Quantum well Double Heterostructure High Electron Mobility Transistors (QW-DHEMTs) Rejvi Kaysir and Rafiqul Islam Khulna University of Engineering & Technology

E1014	Molarity Effect on the Structural Properties of Nano-MgO Thin Films Habibah Zulkefle , Lyly Nyl Ismail, Raudah Abu Bakar and Mohamad Rusop Mahmood NANO-ElecTronic Centre (NET)
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Afternoon, November 5, 2011 (Saturday)

SESSION – III (ICENC)

Venue: Convention Room 2

Session Chair:

Time: 13:30 – 15:30

N021	State-feedback Switching Control for Discrete-time Takagi–Sugeno Fuzzy Systems Based on Partitioning the Range of Fuzzy Weights Won Il Lee , Jeong Wan Ko and PooGyeon Park Pohang University of Science and Technology(POSTECH)
N040	An Affine Projection Algorithm With Evolving Order Using Variable Step-Size JinWoo Yoo , JaeWook Shin and PooGyeon Park POSTECH
N043	A Consistent Binormalized Data-Reusing LMS Algorithm For Noisy FIR Models ByungHoon Kang , NamKyu Kwon and PooGyeon Park POSTECH
N022	FPGA-based Controller for High Speed Train System P.Eh Kan , A.H.Abdul Halim, H.Othman, M.S.Mustafa and C.Y.Lam Universiti Malaysia Perlis
N026	A Weight Based Genetic Algorithm for Selecting Views Seyed Hamid Talebian and Sameem Abdul Kareem University of Malaya
N028	Clock Gating Implementation on Direct Memory Access Shabagran Gandhi , Zulfiqar Ali and Suphachai Sutanthavibul Universiti Sains Malaysia
N029	An Implementation of Secure Group Communication in a Wireless Environment M. L. Mat Kiah , B. Daghighi and S. H. Albakri University of Malaya
N032	Parasitic Extraction with Metal Fill Effects Consideration in IC Design Flow to Improve Design Cycle Teh J-Me , Dr. Norlaili binti Mohd. Noh and Kwan Ee Lun Universiti Sains Malaysia (USM)
N033	Graph-Based Optimal Structural Software Metrics of UML Class Diagrams N. Khanahmadliravi and H.R. Khataee Universiti Putra Malaysia (UPM)
N034	Identification and Extraction of Surface Discharge Acoustic Emission Signals

Using Wavelet Neural Network Nasir A. Al-geelani and M. Afendi M. Piah Universiti Teknologi Malaysia

15: 30 - 15: 40	Coffee Break
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Afternoon, November 5, 2011 (Saturday)

SESSION – IV (ICENC)

Venue: Convention Room 2

Session Chair:

Time: 15:40 – 18:30

N035	Location-Based Advertisement System via Ellipse Model Framework Pantea Keikhosrokiani , Norlia Mustaffa, Muhammad Imran Sarwar and G. C. Sodhy School of Computer Sciences, Universiti Sains Malaysia
N044	ROHC Tunneling Protocol for Source Specific Multicast Architecture Muhammad-Imran Sarwar , Tat-Chee Wan and Pantea Keikhosrokiani National Advance IPv6 Centre, Universiti Sains Malaysia
N039	Call Graph: Representing Component Changes at Component Level Nor Laily Hashim and Noraini Ismail Universiti Utara Malaysia
N042	Design and Implementation of Combined Energy Metric AODV (CEM_AODV) Routing Protocol for MANETs Annapurna P Patil, Bathej Sharanya , M P Dinesh Kumar and Malavika J M.S. Ramaiah Institute of Technology (Affiliated to Visvesvaraya Technological University (VTU))
N045	Seamless Mobility in Mixed Networks (IPv4 and IPv6) Traversing NAT Routers Bassam Naji Al-Tamimi , Rahmat Budiarto and Mohd. Adib Omar School of Computer Sciences, Universiti Sains Malaysia
N049	Easy Trade: An Infrastructure for Mobile Automated Forex Trading Hani Mohd Al-Omari Tabuk University
N050	Modified-AND Subtraction Detection Technique Based on Weight - Division for SAC-OCDMA System Hamza M. R. Al-Khafaji , S. A. Aljunid and Hilal A. Fadhil University Malaysia Perlis (UniMAP)
N052	Video Copy Protection and Detection Framework (VPD) for E-Learning Systems BABAK ZANDI , DANIAL DOUSTARMOGHADDAM, and MAHSA REZAEI POUR University College Of Technology and Innovation (UCTI)
N063	A Study on Convergence Adaptor Using Plug Computer

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	Jungmee Yun and Daehwan Kim Korea Electronics Technology Institute
N086	A Study on Data Exchange Method in Food Packaging CAD System Suziyanti Marjudi , Riza Sulaiman, Saliyah Kahar, Mohd Fahmi Mohamad Amran and Asma' Yusoff Universiti Kebangsaan Malaysia
N1015	How can trust web? Mohsen Ghobadi Industrial Management Institute-(Rayanehpeyvand), AECCT University
N2037	Real of Simply Assembly Line Balancing using Fact-Model Haeryip Sihombing , Habibullah Akbar, Puvanasvaran Perumal, Mohd. Yuhazri Yaakob and Jeefferie A. Razak UNIVERSITI TEKNIKAL MALAYSIA MELAKA (UTeM)
N2039	Implementation of an Automatic Vehicle Driving System on a Single FPGA Chip Aida Farahani and Behnam Ghiaseddin K.N.Toosi University of Tech

Morning, November 6, 2011 (Sunday)

SESSION – V (ICMENS)

Venue: Convention Room 1

Session Chair:

Time: 09:00 – 12:00

E1016	Amorphous Carbon Thin Films Deposited by Thermal CVD Using Camphoric Carbon as Precursor Nurfadzilah Ahmad , Nur Ayuni Tahir and Mohamad Rusop Universiti Teknologi Mara (UiTM) Malaysia
E1018	Design & Modeling of 6-Bit Low Loss Ka Band Distributed MEMS Phase Shifter on GaAs Anesh K Sharma , Ashu K Gautam, DVK Sastry and S G Singh Research Centre Imarat (DRDO)
E1019	Well Potential of Bright Solitary Wave in Fiber Bragg Grating Mardiana Zainudin , Saktioto and Jalil Ali UNIVERSITI TEKNOLOGI MALAYSIA
E1020	Sensitivity to Over-Etching of Improved V-Shaped Microcantilever S. Subramanian and Navneet Gupta Birla Institute of Technology and Science, Pilani, Rajasthan, INDIA
E1021	An Error Analysis on Images Using Skeletonization Methods Neeti Daryal and Vinod Kumar Mukand lal National College, Yamuna Nagar, Kurukshetra University Kurukshetra
E043	Parametric Study of Polyimide-Based Micro Thermoelectric Generator (μ TEG) Integrated with Micro Fluidic Channel

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	Asrulnizam Abd Manaf , Heng Yeh En and Othman Sidek Universiti Sains Malaysia
E047	Hyperspectral Unmixing Using Statistics of Q function Muhammad Ahmad and Ihsan Ul Haq International Islamic University Islamabad-44000, Pakistan.
E048	LSPR Sensitivity Improvement by Using CNTs/Au Nanoparticle for Bioanalysis Ryohei Fujieda and Ming Yang Tokyo Metropolitan University
E050	Transport Properties of Insulated Gate AlInN/InN Heterojunction Field Effect Transistor Sherajul Islam, Arafat Hossain , Sakib Mohammed Muhtadi and Ashraful G. Bhuiyan Khulna University of Engineering & Technology
E058	Effect of Size on the Mechanical Properties of Rh-20at%Pd Nanowire Jamal Davoodi and Mohammad Javad Moradi University of Zanjan
E2003	A Theoretical Calculation of Misfit Dislocation and Strain Relaxation in Step-Graded In _x Ga _{1-x} N/GaN Layers Arafat Hossain and Rafiqul Islam Khulna University of Engineering & Technology
E2008	Design of First Adder/Subtractor Using Quantum-Dot Cellular Automata Ali Shahidinejad and Ali Selamat University Teknologi Malaysia
E083	Fabrication of Microlens and Microlens Array on Polystyrene Using CO ₂ Laser Yiqiang Fan , Huawei Li and Ian G. Foulds King Abdullah University of Science and Technology

12: 00 - 13: 30	Lunch
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Afternoon, November 6, 2011 (Sunday)

SESSION – VI (ICMENS)

Venue: Convention Room 1

Session Chair:

Time: 13:30 – 15:30

E1024	Layer-By-Layer Nanoparticles ZnO Thin films Prepared by Sol-Gel Method Shafinaz Sobihana Shariffudin , Sukreen Hana Herman and Mohamad Rusop Universiti Teknologi MARA, Shah Alam
E3009	Modeling of Doped ZnO Waveguides for Nonlinear Applications Rosmin Elsa Mohan , K.S.Sreelatha , M.Sivakumar and A.Krishnashree AMRITA VISHWA VIDYAPEETHAM, INDIA

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E068	<p>A CMOS MEMS Resonant Magnetic field Sensor with Differential Electrostatic Actuation and Capacitive Sensing</p> <p>Farooq Ahmad, John Ojur Dennis, Mohd Haris Md Khir and Nor Hisham Hamid</p> <p>Universiti Teknologi PETRONAS</p>
E078	<p>Investigation on Resonance Effects of Closely Resonating Nano-Pillars Attached to SAW Resonator</p> <p>N. Ramakrishnan, Harshal B Nemade and Roy Paily Palathinkal</p> <p>Monash University Sunway Campus</p>
E3002	<p>The Effect on Physical, Electrical and Structural Parameters of RF Sputtered Molybdenum Thin Film</p> <p>Mukter zaman, Gunawan Witjaksono, Teh Aun Shih, Shabiul Islam, Masuri Othman and Nowshad Amin</p> <p>MIMOS BERHAD</p>
E065	<p>Organic Bulk Heterojunction Solar Cell Based on Rosebengal: ncTiO₂ and Parameter Extraction by Simulation</p> <p>C.O.Sreekala, P.F.Saneesh, K.S.Sreelatha, A.Kishnashree and M.S.Roy</p> <p>Amrita Vishwa Vidyapeetham University</p>
E086	<p>Microstructure and Electrical Characteristics of ITO/CuPc/TCNQ/Al and ITO/TCNQ/CuPc/Al Heterojunctions</p> <p>Theerasak Juagwon and Tanakorn Osothchan</p> <p>Mahidol University</p>
E3001	<p>Novel Plastic Modelling of Micro and Nanostructure Materials</p> <p>Hamed Farahmand</p> <p>Islamic Azad university, Kerman Banch</p>
E3006	<p>Multiwalled Carbon Nanotube Growth Mechanism on Conductive and Non-Conductive Barriers</p> <p>Aun Shih Teh, Daniel C.S. Bien, Rahimah Mohd Saman, Soo Kien Chen, Kai Sin Tan and Hing Wah Lee</p> <p>MIMOS BERHAD</p>
E2004	<p>Preparation of Nickel Nanoparticles via Laser Ablation in Liquid and Simultaneously Spectroscopy</p> <p>B.Jaleh, M.J.Torkamany and R.Golbedaghi</p> <p>Bu-Ali Sina University</p>

Morning, November 6, 2011 (Sunday)

SESSION –VII (ICMENS, ICESM, ICENC)

Venue: Convention Room 2

Session Chair:

Time: 09:00 – 12:00

ICMENS 2011	
E3003	<p>Study of Heating Effect on Specific Surface Area, and Changing Optical Properties of ZnO Nanocrystals</p> <p>Jaleh Babak, Ashrafi Ghazaleh, Gholami Nasim, Azizian saeid, Golbedaghi Reza, Habibi Safdar and Parsian Hosein</p> <p>Bu-Ali Sina University</p>
E059	<p>Design, Modeling and Simulation of CMOS-MEMS Piezoresistive Cantilever Based Carbon Dioxide Gas Sensor for Capnometry</p> <p>Asif Mirza, Nor Hisham Hamid, Mohd Haris Md Khir, Khalid Ashraf, M.T.Jan and Kashif Riaz</p> <p>Universiti Teknologi PETRONAS</p>
E020	<p>An Electromagnetic Frequency Increased Vibration Energy Harvester</p> <p>Khalid Ashraf, Mohd Haris Md Khir and John Ojur Dennis</p> <p>Universiti Teknologi PETRONAS</p>
E3019	<p>Design & Simulation of low loss 5-bit Ku band Switched line MEMS Phase Shifter on GaAs</p> <p>Anesh K Sharma, Ashu K Gautam, DVK Sastry and S G Singh</p> <p>Research Centre Imarat (DRDO)</p>
E077	<p>Rheological Behavior of Carbon Nanotubes/ Copper Feedstocks for Metal Injection Molding</p> <p>Faiz Ahmad, Ali Samer Muhsan, M. Rafi Raza</p> <p>University Technology PETRONAS</p>
ICESM 2011	
E008	<p>Embedded System of Tennis Ball Serving Machine with Top-spin and Back-spin Functions</p> <p>Puchit Puchumni and Nunnapad Toaditkep</p> <p>Silpakorn University</p>
E011	<p>Design Considerations for Optimizing Real-Time Control and Communication</p>

	for the Kiira Electric Vehicle Gerald Baguma , Sandy Stevens Tickodri-Togboa, Paul Isaac Musasizi, Nancy Senabulya and Pauline Korukundo Makerere University
E013	Design Architecture of Custom Configurable Process Automation System for Small Scale Industries SINDHU. R, ANISH SATHYAN and VIJAYA BHASKARA RAO CDAC- Trivandrum, under DIT. Govt. of India
E1005	Daily Discharge Forecasting using Support Vector Machine Mahdi Moharrampour , Abdulhamid Mehrabi and Mahya Katuzi Department of civil Engineering, Islamic Azad University, Buinzahra branch, Qazvin, Iran
E1006	Preparation of Seismic Hazard Map in Qazvin Province Mahdi Moharrampour , Moslem Jahangir bakht and Mohammad Reza Sadegh Moghaddam Department of civil Engineering, Islamic Azad University, Buinzahra branch, Qazvin, Iran
ICENC 2011	
N0109	Predicting the Solubility of Sulfur in Hydrogen Sulfide Using a Back-Propagation Neural Network Wu Han , Wu Xiao-dong, Han Guo-qing and YAN Rong-kun China University of Petroleum
N0138	An Ultra-Low Power OTA-C Bandpass Filter Design for ECG Application Chih-Lung Hsiao , Ren-Bin Huang, Heng-Chang Jhuang and Jun-Wei Laio Lunghwa University of Science and Technology
N0137	Automatic Welding Track Detection for Welding Process by Machine Vision Kiswanto G and Rianto A DEPARTMENT OF MECHANICAL ENGINEERING – UNIVERSITAS INDONESIA

Instructions for Oral Presentations

Devices Provided by the Conference Organizer:

Laptops (with MS-Office & Adobe Reader)

Projectors & Screen

Laser Sticks

Materials Provided by the Presenters:

PowerPoint or PDF files

Duration of each Presentation (Tentatively):

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Regular Oral Session: about 10 Minutes of Presentation 5 Minutes of Q&A

Keynote Speech: 40 Minutes of Presentation 5 Minutes of Q&A

Conference Secretariat Contact:

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ICESM: icesm@vip.163.com

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IACSIT Section: 400-999-648 (中文咨询电话), +86-28-8652-7868 (International)

Grand BlueWave Shah Alam

Situated in the heart of the business and commercial hub of Shah Alam, Grand BlueWave Hotel is located just next to the State Museum and Library and a five minutes' walk from the famous Blue Mosque.

Surrounding tourist attractions include the Bukit Cahaya Seri Alam Agri cultural Park and for golf enthusiasts, there are more than 10 golf clubs such as the Kelab Golf Sultan Abdul Aziz Shah, all within 10 minutes' drive from the hotel.

The hotel is only 40 minutes drive away by car from Kuala Lumpur International Airport and linked to Kuala Lumpur city centre by the Federal Highway or North Klang Valley Expressway.





Contact:

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