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Technical Program

Oral Presentation

T1-1: Power Electronics (I)

Room 411

November 22, 2010

Chair: Seiya ABE (The International Centre for the Study of East Asian Development)

T1-1.1

11:00-11:20

An Application of Genetic Algorithm and Support Vector Machine to Power Flow Allocation in Pool Trade Power System^{\$\$}

Mohd Herwan SULAIMAN, *Omar ALIMAN,
**Mohd Wazir MUSTAFA,
Saifulnizam Abd. KHALID, *Hussain SHAREEF
*Universiti Malaysia Perlis, *Universiti Malaysia Pahang, **Universiti Teknologi Malaysia, ***Universiti Kebangsaan Malaysia*

T1-1.2

11:20-11:40

Inverter-Based Photovoltaic Distributed Generations: Modeling and Dynamic Simulations^{\$\$}

Natthaphob NIMPITIWAN
Bangkok University

T1-2: Power Electronics (II)

Room 411

November 22, 2010

Chair: Masahito SHOYAMA (Kyushu University)

T1-2.1

13:30-13:50

Robust Hybrid Anti-Islanding Method for Inverter-Based Distributed Generation^{\$\$}

Maher. G. M. ABDOLRASOL, Saad MEKHILEF
University of Malaya

T1-2.2

13:50-14:10

A Switched-Capacitor Based Embedded DC-DC Buck Converter for High Power Efficiency and High Power Density^{\$\$}

Biswajit MAITY, Pradip MANDAL
IIT Kharagpur

T1-2.3

14:10-14:30

Dynamic Characteristics of Digitally Controlled Converter with Pole-Zero-Cancellation Technique^{\$\$}

Seiya ABE, *Toshiyuki ZAITSU, *Satoshi OBATA,
**Mariko OGAWA, **Masahito SHOYAMA,
***Tamotsu NINOMIYA
*ICSEAD, *Texas Instruments Japan Ltd., **Kyushu University, ***Nagasaki University*

T1-2.4

14:30-14:50

State Observer with Stator Resistance and Back-EMF Constant Estimation for Sensorless PMSM^{\$\$}

Jun Sung PARK, Sung Hun LEE, Cheol MOON,
Young Ahn KWON
Pusan National University

T1-2.5

14:50-15:10

Sliding Mode Observer with Parameter Estimation for Sensorless Induction Motor^{\$\$}

+ Yong Hun PARK, Kang Hyo PARK,
Seung Chul BAEK, Young Ahn KWON
Pusan National University

T1-3: Power Electronics (III)

Room 411

November 22, 2010

Chair: Masahito SHOYAMA (Kyushu University)

T1-3.1

16:10-16:30

Power Transfer Capability Enhancement with Multitype FACTS Controllers Using Particle Swarm Optimization^{\$(&}

Suppakarn CHANSAREEWITTAYA,
Peerapol JIRAPONG
Chiang Mai University

T1-3.2

16:30-16:50

A Z-Source Inverter Accepting Rapid Reverse Current Flow^{\$(,}

Naoki YAMASHITA, Masato ASANO,
Makoto YAMANAKA, Hirotaka KOIZUMI
Tokyo University of Science

T1-3.3

16:50-17:10

Two High Speed Brushless DC Motors of Different Rotor Configuration^{\$(}

Ling LUO, Weiguo LIU, Manfeng DOU
Northwestern Polytechnical University

T1-3.4

17:10-17:30

Control of Three Phase Cascaded Multilevel Inverter Using Various Novel Multicarrier Pulse Width Modulation Techniques^{\$(}

P. PALANIVEL, *Subhransu Sekhar DASH
*M.A.M College of Engineering, *SRM University*

T1-3.5

17:30-17:50

Sensorless, Vector-Controlled, Induction Motor Drive Based on New Phase Current Reconstruction & Speed Estimation Techniques^{\$(*)}

S. B. BODKHE, *M. V. AWARE
*G. H. Raisoni College of Engineering, *Visvesvaraya National Institute of Technology*

T1-10: Electric Power System Hardware (I)

Room 406

November 22, 2010

Chair: Satoru SUMYOSHITANI (Fukuoka University)

T1-10.1

11:00-11:20

An 800 Volts High Voltage Interconnection Level Shifter Using Floating Poly Field Plate (FPFP) Method^{\$(+%}

Rudy Octavius SIHOMBING, Gene SHEU,
Shao-Ming YANG, Hutomu Suryo WASISTO,
*Yu-Feng GUO, **Shang-Hui TU, **Yu-Lung CHIN,
**Jin-Shyong JAN, **Chia-Hao LEE
*Asia University, *Nanjing University of Posts and Telecommunications, **Vanguard International Semiconductor*

T1-10.2

11:20-11:40

A Novel 800V Multiple RESURF LDMOS Utilizing Linear P-Top Rings^{\$(+)}

Hutomu Suryo WASISTO, Gene SHEU,
Shao-Ming YANG, Rudy Octavius SIHOMBING,
*Yufeng GUO, **Shang-Hui TU, **Chia-Hao LEE,
**Yu-Lung CHIN, **Jin-Shyong JAN
*Asia University, *Nanjing University of Posts and Telecommunications, **Vanguard International Semiconductor*

T1-11: Electric Power System Hardware (II)
Room 406 November 22, 2010
Chair: Satoru SUMIYOSHITANI (Fukuoka University)

- T1-11.1** 13:30-13:50
ESD Simulation on GGNMOS for 40V BCD^{-\$-\$}, \$
Aloysius Priartanto HERLAMBANG, Gene SHEU, Shao-Ming YANG, Priyono Tri SULISTYANTO, *Shang-Hui TU, *Jin-Shyong JAN, *Yeh-Ning JOU, *Chia-Wei HUNG
Asia University, *Vanguard International Semiconductor Corporation
- T1-11.2** 13:50-14:10
Optimal Sizing Stand-Alone PV Systems Based on the Observed Extremes over a Threshold^{-\$-\$}, (\$
Shin-Guang CHEN
Tungnan University
- T1-11.3** 14:10-14:30
Self-Adaptive Differential Evolution Algorithm for Economic Dispatch with Transmission Losses Consideration^{-\$-\$}
Thanathip SUM-IM
Srinakharinwirot University
- T1-11.4** 14:30-14:50
Detection and Classification of High Impedance Faults in Power Distribution Networks Using Multilayer SVM Classifier^{-\$-\$}, *
I. NIKOOFEKR, M. SARLAK, S.M. SHAHRTASH
Iran University of Science and Technology
- T1-11.5** 14:50-15:10
Measurement of Grounding Resistance by U-Shape and Square Grids^{-%&}
M. A. SALAM, Saifulbahri JA'AFAR, Md. ARIFFIN
Institute Technology Brunei

T1-12: Electric Power System Hardware (III)
Room 406 November 22, 2010
Chair: Md. Salam ABDUS (Institute Technology Brunei)

- T1-12.1** 16:10-16:30
Power Transformer Diagnosis Decision-Making Based on Unified Combination Rule and Maximax-Maximin Criterion^{-%\$}
A. Mohd RADZIAN, M. ITOH, T. INAGAKI
University of Tsukuba
- T1-12.2** 16:30-16:50
Harmonic Analysis and Simulation of CC-VSI for Grid Interactive PV System Using Wavelet Technique^{-%&}
R.Kameswara RAO, *G.Ravi KUMAR, S.S.Tulasi RAM
JNTU College of Engineering,
*Bapatla Engineering college
- T1-12.3** 16:50-17:10
Study on Magnetic Field Measurement around Power Lines Using Ordinary Materials with Faraday Effect^{-%%}
S. SUMIYOSHITANI
Fukuoka University

T2-1: Spintronics and Photonics
Room 404 November 22, 2010
Chair: Kouhei HAMAYA (Kyushu Univ.)

- T2-1.1** 11:00-11:20
Stochastic Nature of Current-Excited Magnetic Domain and Domain Wall Dynamics Microscopically Investigated by Lorentz Microscopy^{-%&}
Yoshihiko TOGAWA, *Takashi KIMURA, **Ken HARADA, ***Akira TONOMURA, ****Yoshichika OTANI
Osaka Prefecture University, *Kyushu University, **Hitachi Ltd., ***Institute of Physical and Chemical Research (RIKEN), ****University of Tokyo
- T2-1.2** 11:20-11:40
Optimization of Interface Condition for Efficient Spin Injection in Permalloy/Cu Lateral Spin Valve^{-%*}
S. YAKATA, Y. ANDO, T. KIMURA
Kyushu University
- T2-1.3** 11:40-12:00
Spectroscopic Properties of J-Aggregated Cyanine in Micro-Sized Film by Ink-Jet Spotting^{-%&}
Tokuma NAKAMICHI, Yu YANG, Soichiro OMI, Ryo GOTO, Hiroyuki WATANABE, Yuji OKI, *Masayuki YAHIRO, **Masanao ERA
Kyushu University, *Institute of Systems, Information and Technologies and Nanotechnologies, **Saga University

T2-2: Device Simulations
Room 404 November 22, 2010
Chair: Akihiro IKEDA (Kyushu University)

- T2-2.1** 13:30-13:50
Impact of Doping Concentration and Donor-Layer Thickness on the dc Characterization of Symmetric Double-Gate and Single-Gate InAlAs/InGaAs/InP HEMT for Nanometer Gate Dimension-A Comparison^{-%()}
Monika BHATTACHARYA, Jyotika JOGI, *R.S GUPTA, Mridula GUPTA
University of Delhi, *Maharaja Agrasen Institute of Technology
- T2-2.2** 13:50-14:10
Effect of Gate Voltage on the Performance of a Novel In_mGa_{1-m}N/InN HEMT: A Quantum Mechanical Self Consistent Study^{-%\$}
Sakib M. MUHTADI, S. M. Sajjad HOSSAIN, Sherajul ISLAM, Ashraful G. BHUIYAN, *M. Mofazzal HOSSAIN
Khulna University of Engineering and Technology, *East West University
- T2-2.3** 14:10-14:30
Time Domain Analysis of High Speed MIS Interconnects on Lossy Substrate in RF MEMS and Integrated Circuits Using a Compact Distributed RLCG Model^{-%()}
Avanish BHADAURIA
Central Electronics Engineering Research Institute

T2-3: Plasma-nano Interface
Room 404 November 22, 2010
Chair: Tatsuru SHIRAFUJI (Osaka City University)

T2-3.2	16:40-17:00	T3-2.4	14:30-14:50
Synthesis of Nanoparticles Conjugated with Carbon Nanotubes Using Gas-Liquid Interfacial Plasmas ^{**%-}		A New Approach of Crowd Density Estimation ^{**%-} (
Toshiro KANEKO, Takashi HARADA, Qiang CHEN, Rikizo HATAKEYAMA <i>Tohoku University</i>		Wei LI, Xiaojuan WU, *Koichi MATSUMOTO, *Hua-An ZHAO	
T2-3.3	17:00-17:20	T3-3: Image Processing Applications	
Effect of Water Pressure on the Size of Nanoparticles in Liquid-Phase Laser Ablation ^{**%-} (Room 413	November 22, 2010
Wafa SOLIMAN, Noriharu TAKADA, *Koichi SASAKI <i>Nagoya University, *Hokkaido University</i>		<i>Chair: Qunfei ZHAO (Shanghai Jiao Tong University)</i>	
T2-3.4	17:20-17:40	T3-3.1	16:10-16:30
Nano-Graphite Formation Enhanced by Fluorine in Gas Phase of Carbon Sputtering Plasmas ^{**%-} , Tomo IDE, Koji NISHIO, Kazuo TAKAHASHI <i>Kyoto Institute of Technology</i>		Exudates Detection in Fundus Image Using Non-Uniform Illumination Background Subtraction ^{**%-} , W. SAE-TANG, W. CHIRACHARIT, W. KUMWILAIKAN <i>King Mongkut's University of Technology Thonburi</i>	
T2-3.5	17:40-18:00	T3-3.2	16:30-16:50
Inactivation Mechanism of <i>Penicillium digitatum</i> Using Atmospheric Pressure Plasma ^{**%-} (A Novel Smoke Detection Method Using Support Vector Machine ^{**%\$} Hidenori MARUTA, Akihiro NAKAMURA, Fujio KUROKAWA <i>Nagasaki University</i>	
Takayuki OHTA, *Masafumi ITO, **Sachiko ISEKI, **Masaru HORI <i>Wakayama University, *Meijo University,</i> **Nagoya University		T3-3.3	16:50-17:10
T3-1: Face Recognition (I)		Automatic Parameter Regulation for CT/MRA Viscous Fluid Registration ^{**%\$} Soichiro TOKUHISA, Kunihiko KANEKO <i>Kyushu University</i>	
Room 413	November 22, 2010	T3-3.4	17:10-17:30
<i>Chair: Siu-Yeung CHO (Nanyang Technological University)</i>		A Novel Ship Detection Approach in Polarimetric SAR Images Based on a Foreground/Background Separation Framework ^{**%\$} Bin LIU, Huanyu WANG, Kaizhi WANG, Xingzhao LIU, Wenxian YU, *Jiancheng DANG <i>Shanghai Jiao Tong University,</i> *Shanghai Institute of Satellite Engineering	
T3-1.1	11:00-11:20	T3-3.5	17:30-17:50
A Spectral Domain Feature Extraction Algorithm for Face Recognition ^{**%-} - Hafiz IMTIAZ, Shaikh Anowarul FATTAH <i>Bangladesh University of Engineering and Technology</i>		Using Infrared Imaging Technology for Concealed Weapons Detection and Visualization ^{**%&} Siu-Yeung CHO, Nanda-Pwint TIN <i>Nanyang Technological University</i>	
T3-1.2	11:20-11:40	T4-1: Ubiquitous Network (1)	
Automatic and Accurate 3D Face Registration under the Guidance of Intra-Class Difference Measurement ^{**%-} ' Xinmin TANG, Jing QIN, *Wai-Man PANG <i>The Chinese University of Hong Kong,</i> *University of Aizu		Room 414	November 22, 2010
T3-1.3	11:40-12:00	<i>Chair: Masato TSURU (Kyushu Institute of Technology)</i>	
A Novel Face Representation Toward Pose Invariant Face Recognition ^{**%-} - Liang YU, Sei-ichiro KAMATA, *Yong FANG <i>Waseda University, *Shanghai University</i>		T4-1.1	13:30-13:50
T3-2: Video Processing		LRD : A Distributed and Accurate Localization Technique for Wireless Sensors Networks ^{**%} Kouakou Jean Marc ATTOUNGBLE, Kazunori OKADA <i>The University of Electro-Communications</i>	
Room 413	November 22, 2010	T4-1.2	13:50-14:10
<i>Chair: Alireza AHRARY (Nagasaki Institute of Applied Science)</i>		Efficient Network Coverage for Wireless Sensor Networks ^{**% (} Wan Norsyafizan W. MUHAMAD, Nasreen Hani RODZI, Naimah Mat ISA, Norfishah Ab WAHAB <i>Universiti Teknologi MARA Malaysia</i>	
T3-2.1	13:30-13:50	T4-1.3	14:10-14:30
A Robust Motion Detection Technique Using Unit Gradient Vectors ^{**%} (Toshiaki KONDO <i>Thammasat University</i>		An Optimized Routing Protocol for Vehicular Ad Hoc Networks ^{** -} Huaqun GUO, *Firdaus B. Alias THANI, *Wai Choong WONG, Yongdong WU A *STAR, *National University of Singapore	
T3-2.2	13:50-14:10		
Image Authentication by Motion Blur Consistency Verification ^{**%} , Pravin KAKAR, Sudha NATARAJAN, Wee SER <i>Nanyang Technological University</i>			

T4-2: Ubiquitous Network (2)

Room 414

November 22, 2010

Chair: Masato TSURU (Kyushu Institute of Technology)

T4-2.1

16:10-16:30

Estimating the Initial Battery Power of Nodes and the Optimal Number of Clusters to Achieve the Expected Life Span of Wireless Sensor Networks''&()

Akramul AZIM, *Mohammad Mahfuzul ISLAM,

**Golam SORWAR

University of Waterloo, *Bangladesh University of Engineering and Technology,

**Southern Cross University

T4-2.2

16:30-16:50

Markov Chain-Based Analytical Model of Opportunistic Routing Protocol for Wireless Sensor Networks''&%

Mohd Ezanee RUSLI, Richard HARRIS,

Amal PUNCHIHEWA

Massey University

T4-2.3

16:50-17:10

Modeling and Analysing a Novel Restricted Angle Scenario Model in MANET''&+

N VETRIVELAN, *A V REDDY

Periyar Maniammai University,

*National Institute of Technology

T6-1: Computing Architectures and Systems (I)

Room 402

November 22, 2010

Chair: Motoki AMAGASAKI (Kumamoto University)

T6-1.1

13:30-13:50

Recognition of Human Gait Using 2D Continuous Dynamic Programming Towards Realization of Invisible User Interfaces''&'

Hiroyuki TAKAI, Mika OIKAWA,

Masahito HIRAKAWA

Shimane University

T6-1.2

13:50-14:10

A Conceptual Framework for Creating Interactive Narratives''&*

Samiullah PARACHA, *Osamu YOSHIE

Yufu City Board of Education, *Waseda University

T6-1.3

14:10-14:30

A Framework for Parallel Code Execution Using Java''&+)

Mehnaz HAFEEZ, Naveed RIAZ, *Sajjad ASGHAR,

*Usman A. MALIK, *Adeel-ur- REHMAN

Shaheed Zulfikar Ali Bhutto Institute of Science and Technology, *National Centre for Physics

T6-1.4

14:30-14:50

Reducibility Considerations for an Aggregated Markov Chain''& %

Kutluylil DOGANCAY

University of South Australia

T6-1.5

14:50-15:10

Cooperative MPR Selection to Reduce Topology Control Packets in OLSR''&,+

Kenji YAMADA, Tsuyoshi ITOKAWA,

Teruaki KITASUKA, Masayoshi ARITSUGI

Kumamoto University

T6-2: Computing Architectures and Systems (II)

Room 402

November 22, 2010

Chair: Hyungshin KIM (Chungnam National University)

T6-2.1

16:10-16:30

Design and Implementation of Hard-Wired Tracking Control System''& '

Yasuaki TEZUKA, Shuichi ICHIKAWA,

Yoshiyuki NODA

Toyohashi University of Technology

T6-2.2

16:30-16:50

A Less Configuration Memory Reconfigurable Logic Device with Error Detect and Correct Circuit''& -

Qian ZHAO, Yoshihiro ICHINOMIYA,

Yasuhiro OKAMOTO, Motoki AMAGASAKI,

Masahiro IIDA, Toshinori SUEYOSHI

Kumamoto University

T6-2.3

16:50-17:10

A Prototype Chip of Reconfigurable Logic Device Using Variable Grain Logic Cell Architecture'' \$)

Kazuki INOUE, Yasuhiro OKAMOTO, Qian ZHAO,

Hiroki YOSHIO, Komei YOSHIZAWA,

Masahiro KOGA, Motoki AMAGASAKI, Masahiro

IIDA, Morihiko KUGA, Toshinori SUEYOSHI

Kumamoto University

T6-2.4

17:10-17:30

A Power-Gatable Reconfigurable Logic Chip with FeRAM Cells'' %)

Masahiro KOGA, Masahiro IIDA,

Motoki AMAGASAKI, *Yoshinobu ICHIDA,

*Mitsuro SAJI, *Jun IIDA, Toshinori SUEYOSHI

Kumamoto University, *ROHM Co., Ltd.

T6-2.5

17:30-17:50

A Case Study of Evaluation Technique for Soft Error Tolerance on SRAM-Based FPGAs'' %)

Tsuyoshi KIMURA, Noritaka KAI,

Motoki AMAGASAKI, Morihiko KUGA,

Toshinori SUEYOSHI

Kumamoto University

T9-1: Biomedical Engineering (I)

Room 403

November 22, 2010

Chair: Bor-Shyh LIN (National Chiao Tung University)

T9-1.1

11:00-11:20

Survey Items Essential to Feasibility Study on Satellite-Based Medical Network and Considerations Therein'' &

Yasumitsu TOMIOKA, Kaoru NAKADA,

Isao NAKAJIMA

Tokai University

T9-1.2

11:20-11:40

Telemedicine Framework for Bangladesh'' &

Ameer ALI, Ahmed FAISAL, *Golam SORWAR

East West University, *Southern Cross University

T9-1.3

11:40-12:00

Medical Image Archiving, Processing, Analysis and Communication System for Teleradiology'' ''

Piyamas SUAPANG, Kobchai DEJHAN,

*Surapun YIMMUN

King Mongkut's Institute of Technology Ladkrabang,

*King Mongkut's University of Technology North

Bangkok

T9-2: Biomedical Engineering (II)		
Room 403	November 22, 2010	
<i>Chair: Keiji IRAMINA (Kyushu University)</i>		
T9-2.1	13:30-13:50	
Human Cognitive Application by Using Wearable Mobile Brain Computer Interface " (\$		
Lun-De LIAO, I-Jan WANG, Che-Jui CHANG, Bor-Shyh LIN, Chin-Teng LIN, *Kevin C. TSENG <i>National Chiao Tung University, Chang Gung University</i>		
T9-2.2	13:50-14:10	
Measument of Cerebral Blood Oxygeneation during a Verbal Fluency Task with Juggling by Means of fNIRS " (*		
Kenji MISHIMA, Keiichi IRIE, Takafumi KATO, Tadashi SUETSUGU, Shigeto ARAMAKI, Hiroaki TANAKA, Yasuki HIGAKI, Sei HIGUCHI, Yoshiharu AKITAKE, Kenichi MISHIMA, Michihiro FUJIWARA, Hiroyuki AI, Masahiro ABIRU <i>Fukuoka University</i>		
T9-2.3	14:10-14:30	
Change of EEG Activity by Repetitive Transcranial Magnetic Stimulation " (-		
Kazuhsia NOJIMA, Yoshinori KATAYAMA, Keiji IRAMINA <i>Kyushu University</i>		
T9-2.4	14:30-14:50	
Investigation of Temporal Variability of Epileptic EEG Signals ")		
Suparerk JANJARASJITT, *Kenneth A. LOPARO <i>Ubon Ratchathani University, Case Western Reserve University</i>		
T9-2.5	14:50-15:10	
VLSI Implementation for Epileptic Seizure Prediction System Based on Wavelet and Chaos Theory "),		
Shao-Hang HUNG, Chih-Feng CHAO, Shu-Kai WANG, *Bor-Shyh LIN, Chin-Teng LIN <i>National Chiao Tung University, National Chiao-Tung University</i>		
T9-3: Biomedical Engineering (III)		
Room 403	November 22, 2010	
<i>Chair: Suparerk JANJARASJITT (Ubon Ratchathani University)</i>		
T9-3.1	16:10-16:30	
The Long-Lasting Effect Caused by Direct Current for Somatosensory Evoked Potentials and High Frequency Oscillations " *		
Daisuke NOMURA, Yoshinori KATAYAMA, Keiji IRAMINA <i>Kyushu University</i>		
T9-3.2	16:30-16:50	
Wavelet-Based Fractal Analysis of Multi-Channel Epileptic ECoG " * +		
Suparerk JANJARASJITT, *Kenneth A. LOPARO <i>Ubon Ratchathani University, Case Western Reserve University</i>		
T9-3.3	16:50-17:10	
A Wearable Mobile Electrocardiogram Measurement Device with Novel Dry Polymer-Based Electrodes " +'		
I-Jan WANG, Lun-De LIAO, Yu-Te WANG, Chi-Yu CHEN, Bor-Shyh LIN, Shao-Wei LU, Chin-Teng LIN <i>National Chiao-Tung University</i>		
T9-3.4	17:10-17:30	
Cardiac Autonomic Neuropathy Evaluated by Time Asymmetric Analysis for Heart Rate Variability in Patients with Peritoneal Dialysis " +		
Jen-Kuang LEE, *Chuan-Wei TING, *Sung-Ya TSENG, *Ching-Yao WANG, *Chih-Liang HE <i>National Taiwan University Hospital, Institution Technology Research Institute</i>		
T9-3.5	17:30-17:50	
Variability of Pacemaker Rhythm in a Detailed Model of Cardiac Sinoatrial Node Cells " , (
Zhenxing PAN, *Shinji DOI <i>Osaka University, Kyoto University</i>		
T10-1: Scattering and Guided Wave Analysis		
Room 405	November 22, 2010	
<i>Chair: Masahiko NISHIMOTO (Kumamoto University)</i>		
T10-1.1	11:00-11:20	
Spectral-Domain Analysis of Electromagnetic Scattering from Lamellar Grating with Defects " - \$		
Koki WATANABE <i>Fukuoka Institute of Technology</i>		
T10-1.2	11:20-11:40	
Analysis of Metal Waveguides Loaded with a Dielectric Post by FEGTD Method " - (
Kengo TAIRA, Seiji FUJINO, *Kazuya MIYAGI <i>Kyushu University, University of the Ryukyus</i>		
T10-1.3	11:40-12:00	
Two Dimensional Scattering from Double Layered Arrays of Arbitrary Shapes in Slab Medium " --		
Maurice SESAY, Mitushiro YOKOTA <i>University of Miyazaki</i>		
T10-2: Antenna Design		
Room 405	November 22, 2010	
<i>Chair: Takeshi FUKUSAKO (Kumamoto University)</i>		
T10-2.1	13:30-13:50	
Development of Phased Array Systems in Japan " (\$		
Isamu CHIBA, Yoshihiko KONISHI, Tamotsu NISHINO <i>Mitsubishi Electric Corporation</i>		
T10-2.2	13:50-14:10	
Broadband Printed Dipole Antennas with Shaped Ground Plane " (%		
Rajendra Prosad GHOSH, Bhaskar GUPTA, S.K. CHOWDHURY <i>Jadavpur University</i>		
T10-2.3	14:10-14:30	
Effects of Ground-Plane Size on Planar UWB Monopole Antenna " (%		
Y. F. WENG, S. W. CHEUNG, T. I. YUK <i>The University of Hong Kong</i>		
T10-2.4	14:30-14:50	
Broadband Circularly Polarized Cavity-Backed Antenna " (&\$		
Ronald JOSEPH, Syuhei NAKAO, Takeshi FUKUSAKO <i>Kumamoto University</i>		
T10-2.5	14:50-15:10	
Circular Polarization Quality Analysis Using Cross Polarization Ratio " (&		
Mazlaini YAHYA, Zaiki AWANG <i>Universiti Teknologi MARA</i>		

T10-3: Optoelectronics and Lasers		
Room 405	November 22, 2010	
Chair: Daisuke NAKAMURA (Kyushu University)		
T10-3.1	16:10-16:30	
Burst Error Reduction in Rewritable-Type Holographic Memory Using Scattering Recording and Phase Conjugate Retrieving'' &		
Yutaka MUTO, Masatoshi BUNSEN, Hirosuke FURUTA <i>Fukuoka University</i>		
T10-3.2	16:30-16:50	
A Distributed-Feedback Organic Waveguide Blue Laser Using Spirobi fluorene Derivatives'' (
Hirotaka SO, Hiromi WATANABE, Yu YANG, Yuji OKI, Chihaya ADACHI <i>Kyushu University</i>		
T10-3.3	16:50-17:10	
Tunable Waveguide Dye Laser on a Plastic Optical Fiber'' (,		
Soichiro OMI, Hiroyuki KUBOTA, Yu YANG, Hiromi WATANABE, Yuji OKI <i>Kyushu University</i>		
T10-3.4	17:10-17:30	
Synthesis of ZnO Nanowire with Dope of Phosphorus by NAPLD and Its Characteristic Evaluation'' (\$		
Akio KUMEDA, K. TOYA, K. KUBO, K. TSUTA, M. HIGASHIHATA, D. NAKAMURA, T. OKADA, *Bingqiang CAO, **Kentaro SAKAI <i>Kyushu University, *University of Jinan, **University of Miyazaki</i>		
T10-3.5	17:30-17:50	
Laser Induced Breakdown Spectroscopy Analysis of Lunar Simulants under High Vacuum Conditions'' ('		
Jobin K. ANTONY, Nilesh J. VASA, *V. L. N. Sridhar RAJA, *A. S. LAXMIPRASAD <i>Indian Institute of Technology Madras,</i> *LEOS, Indian Space Research Organization		
WIE-1: Pattern recognition		
Room 412	November 22, 2010	
Chair: Yumi IWASHITA (Kyushu University, Japan)		
WIE-1.1	11:00-11:20	
A Compact 3D Descriptor in ROI for Human Action Recognition'' (,		
Yanli Ji, Atsushi SHIMADA, Rin-ichiro TANIGUCHI <i>Kyushu University</i>		
WIE-1.2	11:20-11:40	
Algorithm for Gene Selection from DNA-Microarray Data for Disease Classification'' ()		
Ikumi YOSHIDA, Chakraborty GOUTAM <i>Iwate Prefectural University</i>		
WIE-2: Power and Energy		
Room 412	November 22, 2010	
Chair: Junya SUEHIRO (Kyushu University, Japan)		
WIE-2.1	13:30-13:50	
Design and Testing of PV Maximum Power Tracking System with MATLAB Simulation'' (*\$		
A. K. SINHA, Venkataiah MEKALA, S.K. SAMANTARAY <i>National Institute of Technology Silchar</i>		
WIE-2.2	13:50-14:10	
Optimal Location and Size Determination of FACTS Devices by Using Multiobjective Optimal Power Flow'' (* ,		
T. MALAKAR, N. SINHA, *S. K. GOSWAMI, L. C. SAIKIA <i>National Institute of Technology Silchar, *Jadavpur University</i>		
WIE-2.3	14:10-14:30	
Digital Sensitivity of Transmission Lines'' (+		
Rachana GARG, Parmod KUMAR, *Mini S. THOMAS <i>Delhi Tech. University, *JMI</i>		
WIE-2.4	14:50-15:10	
Asymmetrical DC Link Voltage Balance of a Cascaded Two Level Inverter Based STATCOM'' (++		
N. N. V. Surendra BABU, D. Appa RAO, B. G. FERNANDES <i>Indian Institute of Technology Bombay</i>		
WIE-3: Signal Processing		
Room 412	November 22, 2010	
Chair: Akinori NISHIHARA (Tokyo Institute of Technology, Japan)		
WIE-3.1	16:10-16:30	
Comparative Study of Acoustic Echo Cancellation Algorithms for Speech Recognition System in Noisy Environment'' (,		
Urmila SHRAWANKAR, *Vilas THAKARE G H Raisoni College of Engg., *SGB Amravati University		
WIE-3.2	16:30-16:50	
Modified Delta Encoding and Its Applications to Speech Signal'' (, -		
Yanna MA, Hisayori NODA, Izumi ITO, Akinori NISHIHARA <i>Tokyo Institute of Technology</i>		
WIE-3.3	16:50-17:10	
Hilbert Scan Based Tree Representation for Image Search'' (-		
Pengyi HAO, Sei-ichiro KAMATA Waseda University		
WIE-3.4	17:10-17:30	
Radiation Dose and Objective Image Quality Evaluation on Low Dose CT Image'' (--		
Mingna LIU, Xin YANG, Qian WANG, Ming ZHU <i>Shanghai Jiaotong University</i>		
T1-4: Electric Power System Analysis (I)		
Room 411	November 23, 2010	
Chair: Junya SUEHIRO (Kyushu University)		
T1-4.1	09:00-09:20	
Operation and Control of Hybrid Microgrid with Angle Droop Controller'' \$'		
Ritwik MAJUMDER, *Arindam GHOSH, *Gerard LEDWICH, *Firuz ZARE ABB Corporate Research, *Queensland University of Technology		
T1-4.2	09:20-09:40	
A New Heuristic Reconfiguration Method for Distribution Networks'' %\$		
M. SRIKUMAR <i>Nuclear Power Coorp.</i>		
T1-4.3	09:40-10:00	
Managing Demand with Respective Production Using Fuzzy Logic Controller for Maximum Energy Conservation'') %		
M. Prabhavathi REDDY, A. PRAVEEN, Ch. VIKASCHANDRA CVRCE, Hyd		

T1-4.4	10:00-10:20	Energy Conservation Using Fuzzy Logic and DSM Techniques- A Case Study") &%	T1-7: Electric Power System Analysis (IV)	
P RAVIBABU, *Ch. VIKASCHANDRA, **V.Sri HARSHA, *A. PRAVEEN ACE, *CVRH, Hyd., **BIET, Hyd.		Room 411 November 23, 2010 <i>Chair: Junya SUEHIRO (Kyushu University)</i>	November 23, 2010 <i>Chair: Toshikazu OHKUBO (Oita University)</i>	
T1-5: Electric Power System Analysis (II)				
Room 411	November 23, 2010			
		<i>Chair: Junya SUEHIRO (Kyushu University)</i>		
T1-5.1	11:20-11:40	A Novel Method for Direct Computation CCT for TSA Using Critical Generator Conditions") &	T1-7.1	16:20-16:40
		Naoto YORINO, Ardyono PRIYADI, Ridzuan A. MUTALIB, Yutaka SASAKI, Yoshifumi ZOKA, *Hiroaki SUGIHARA Hiroshima University, *Chugoku Electric Power Co., Inc.	Demand Side Management through Innovative Load Control") +(
			Junaid A. QURESHI, Mariam GUL, *Waqar A QURESHI NED University of Engineering and Technology, *University of Auckland	
T1-5.2	11:40-12:00	Optimal Location and Control of FACTS Devices for Relieving Congestion and Ensuring Voltage Stability") ''	T1-7.2	16:40-17:00
		Rony Seto WIBOWO, Naoto YORINO, Yoshifumi ZOKA, Yutaka SASAKI, *Mehdi EGHBAL Hiroshima University, *University of Queensland	Development of a New Open Test Platform for Protective Relay") , \$	
			Craig M. SMITH, Nirmal-Kumar C. NAIR University of Auckland	
T1-5.3	12:00-12:20	Synthesis of Power System Model for SSR Analysis") -	T1-7.3	17:00-17:20
		Vinod POTTAKULATH, Elizabeth P CHERIYAN, R. Seerama KUMAR National Institute of Technology Calicut	Strategic Bidding and Scheduling in Reserve Co-Optimized Based Electricity Spot Markets") , *	
			Victor Joel E. FRANCISCO, *Allan C. NERVES Philippine Electricity Market Corporation, *University of the Philippines	
T1-5.4	12:20-12:40	Rural Energy Security Utilizing Renewable Energy Sources: Challenges and Opportunities") ()	T1-7.4	17:20-17:40
		Nava Raj KARKI, *Deependra Kumar JHA, Ajit Kumar VERMA Indian Institute of Technology, *VIT University	Integrated Energy and Reserve Electricity Market Analysis Using Probabilistic Optimal Power Flow") - &	
			Zigfred Niño C. VIRAY, *Allan C. NERVES Philippine Electricity Market Corporation, *University of the Philippines	
T1-6: Electric Power System Analysis (III)			T1-13: Power and Energy -Miscellaneous (I)	
Room 411	November 23, 2010		Room 406	November 23, 2010
		<i>Chair: Junya SUEHIRO (Kyushu University)</i>		<i>Chair: Toshikazu OHKUBO (Oita University)</i>
T1-6.1	14:10-14:30	Load Frequency Control Using Polar Fuzzy Controller") %	T1-13.1	09:00-09:20
		Rahul UMRAO, D.K. CHATURVEDI D.E.I. Dayalabagh	Development of a Drive Mechanism for a Robot with a Cyclo Gear Reducer, and Its Application to a Semi-Continuous Variable Transmission Gear") - ,	
			Toshihiro YUKAWA, Yoshihide HAKOZAKI Iwate University	
T1-6.2	14:30-14:50	Feasible Operation Region for Dynamic Economic Load Dispatch") +	T1-13.2	09:20-09:40
		N. YORINO, H. M. HAFIZ, Y. SASAKI, Y. ZOKA Hiroshima University	A Novel of Optimal Allocation and Fault Analysis Studies of Embedded Generation in Radial Distribution Systems") **\$	
			Mohd Herwan SULAIMAN, *Omar ALIMAN, Siti Rafidah Abdul RAHIM Universiti Malaysia Perlis, *Universiti Malaysia Pahang	
T1-6.3	14:50-15:10	Impact of Customer Scattering on Distribution System Reliability with Distributed Generation") * &	T1-13.3	09:40-10:00
		Nuntiya CHAIYABUT, Parnjit DAMRONGKULKAMJORN Kasetsart University	Portable Dual-Axis Sun-Tracking Solar Power Generator System") **%	
			T. H. OH, S. D. TAN, P. K. SIM Multimedia University	
T1-6.4	15:10-15:30	Systematic Development of Low Voltage Ride-Through (LVRT) Envelope for Grids") * ,	T1-14: Power and Energy -Miscellaneous (II)	
		Waqar A QURESHI, Nirmal C-K NAIR University of Auckland	Room 406	November 23, 2010
				<i>Chair: Toshikazu OHKUBO (Oita University)</i>
			T1-14.1	11:20-11:40
			Efficient Use of Low Resistivity Material for Grounding Resistance Reduction in High Soil Resistivity Areas") **%	
			Y. KHAN, N. H. MALIK, A. A. AL-ARAINY, M. I. QURESHI, F. R. PAZHERRI King Saud University	
			T1-14.2	11:40-12:00
			Towards Finding an Optimum Wind Turbine Height for Residential and Business Use") **%	
			Songtao LIU, *Ramesh K. RAYUDU Wind Farm Developments Ltd., *Massey University	

T1-14.3	12:00-12:20	Study for Return on Investment by Safety Protection Measures** &	T3-4: Face Recognition (II)	November 23, 2010
		Takashi MIYAKAWA, *Shigeo UMEZAKI, **Rituo MIHIRA <i>Pilz Japan Co., Ltd.</i> , <i>National Institute of Occupational Safety and Health</i> , **Safety Assessment Co., Ltd.	Chair: Hiroshi INABA (Waseda University)	
T1-14.4	12:20-12:40	Optimal Load Shedding: An Economic Approach*** \$	T3-4.1	09:00-09:20
		Deepak Kumar SINGH, Rajiv SHEKHAR, Prem K KALRA <i>IIT Kanpur</i>	Face Recognition with Local Gradient Derivative Patterns*** %	Xianchun ZHENG, Sei-ichiro KAMATA, Liang YU <i>Waseda University</i>
T1-15: Power and Energy -Miscellaneous (III)		Room 406 November 23, 2010	T3-4.2	09:20-09:40
		Chair: Yasin KHAN (King Saud University)	A Face Recognition Scheme Based on Spatial Correlation Function***)	
T1-15.1	14:10-14:30	Electricity Demand Forecasting of Electricité Du Lao (EDL) Using Neural Networks*** (Mirza Saquib Us SARWAR, Anika SHARIN, Mahmudur Rahman KHAN, Hafiz IMTIAZ, Shaikh Anowarul FATTAH <i>Bangladesh University of Engineering and Technology</i>	
		V. SACKDARA, S. PREM RUDEEPREECHACHARN, *K. NGAM SAN ROAJ <i>Chiang Mai University</i> , <i>Electricity Generating Authority of Thailand (EGAT)</i>	T3-4.3	09:40-10:00
T1-15.2	14:30-14:50	Proposal of Using IH Cooking Heater Technology for Energy Saving Home Appliances*** -	A Novel Scheme for Face Detection Using Entropy Initialized Counterpropagation Network*** -	
		S. MURAKAMI, Y. OOKUMA, T. NOGUCHI <i>Kyushu Electric Power Co., Inc.</i>	Ashutosh DWIVEDI, Nishchal VERMA, Prem K KALRA <i>IIT Kanpur</i>	
T1-15.3	14:50-15:10	Power Quality Indices of Compact Fluorescent Lamps for Residential Use – A New Zealand Study*** (%)	T3-4.4	10:00-10:20
		Rémy RIGO-MARIANI, *Ramesh K. RAYUDU, **Mike S. WITHERDEN, *Edmund M-K. LAI <i>RTE SESO</i> , *Massey University, **Energy Efficiency and Conservation Authority	Face Detection in Color Images Based on Skin Color Models*** +	Li ZOU, Sei-ichiro KAMATA <i>Waseda University</i>
T1-15.4	15:10-15:30	An Intelligent Water Heating System – A Case Study*** (+	T3-5: Image Coding and Processing	
		P. RAVIBABU, *Ch. VIKAS CHANDRA, **A. PRAVEEN ACE, *CVRH, Hyd., **CVRH	Room 413 November 23, 2010	Chair: Yoshimitsu KUROKI (Kurume National College of Technology)
T1-16: Power and Energy -Miscellaneous (IV)		Room 406 November 23, 2010	T3-5.1	11:20-11:40
		Chair: Junya SUEHIRO (Kyushu University)	Advanced Zero-Block Mode Decision Algorithm for H.264/ AVC Video Coding***, %	Wei-Yao CHIU, Yu-Ming LEE, Yinyi LIN <i>National Central University</i>
T1-16.1	16:20-16:40	Parallel Computing for Smart Power Oscillation Monitoring Using Synchrophasor Measurements**) %	T3-5.2	11:40-12:00
		Jimmy C.-H. PENG, Andrew MEADS, Nirmal-Kumar C. NAIR <i>University of Auckland</i>	Improving Watermark Detection Performance Using Suprathreshold Stochastic Resonance***,)	Rajib Kumar JHA, *P. K. BISWAS, D. MISHRA <i>Indian Institute of Information Technology Design and Manufacturing, IIT Kharagpur</i>
T1-16.2	17:00-17:20	Identification of DC Corona Generating SF₆ Decomposition Gases Adsorbed on CNT Gas Sensor Using FTIR Spectroscopy**) +	T3-5.3	12:00-12:20
		Yul MARTIN, Zhenyu LI, Takuya TSUTSUMI, Junya SUEHIRO, *Kiminobu IMASAKA, **Shinya OHTSUKA <i>Kyushu University</i> , *Kyushu Sangyo University, **Kyushu Institute of Technology	A Novel Approach for Double Image Encryption*** - %	Xue Mei LI, *Lin DAI <i>Beijing Electronic Science and Technology Institute</i> , *Beijing Institute of Technology
T3-6: Signal Processing (I)		Room 413 November 23, 2010	T3-5.4	12:20-12:40
		Chair: Hideki NODA (Kyushu Institute of Technology)	HD Resolution Intra Prediction Architecture for H.264 Decoder*** - *	Jimit SHAH, K.S. RAGHUNANDAN, Kuruvilla VARGHESE <i>CEDT, Indian Institute of Science</i>
T3-6.1	14:10-14:30	A Novel Class of Binary Zero-Correlation Zone Sequence Sets*** +\$&		
		Takao MAEDA, Shigeru KANEMOTO, Takafumi HAYASHI <i>The University of Aizu</i>		

T3-6.2	14:30-14:50	Signal Frequency Estimation Based on Modified Window Scaling Constant with Maximum Deviation Criterion^{++\$*}	T4-3: Theory	November 23, 2010
Yang LI, Ning ZHANG, Shang SHANG, Song HAO <i>Harbin Institute of Technology</i>			<i>Chair: Yasuyuki NOGAMI (Okayama University)</i>	
T3-6.3	14:50-15:10	A Low-Complexity Noise Removal Technique and its Hardware Implementation^{++%}	T4-3.1	09:00-09:20
Takeaki MATSUBARA, Vasily G. MOSHNYAGA, Koji HASHIMOTO <i>Fukuoka University</i>			A Markovian Approach with Batch Processes for Multifractal Network Traffic⁺⁺	
T3-6.4	15:10-15:30	Pre-Whiten Approach in Passive Detection Using Small Aperture Array^{++%}	Jusak JUSAK, Richard J. HARRIS Massey University	
Qunfei ZHANG, Jing WANG, Jianguo HUANG <i>Northwestern Polytechnical University</i>			T4-3.2	09:20-09:40
T3-6.5	15:30-15:50	Diagnostic Method of Low Speed Rolling Element Bearing Using AE Envelope Waveform^{++%}	Ordinary Pairing Friendly Curve of Embedding Degree 1 Whose Order Has Two Large Prime Factors^{++*}	
Takashi SAKO, Osamu YOSHIE <i>Waseda University</i>			Tetsuya IZUTA, Yasuyuki NOGAMI, Yoshitaka MORIKAWA <i>Okayama University</i>	
T3-7: Speech Recognition and Processing			T4-3.3	09:40-10:00
Room 413		November 23, 2010	Ultimately Customized Multiplication Algorithm in the Extension Field for Xate and R-rate Pairing with Freeman Curve⁺⁺⁺	
<i>Chair: Jie ZHU (Shanghai Jiao Tong University)</i>			Kenta NEKADO, Yasuyuki NOGAMI, Yoshitaka MORIKAWA <i>Okayama University</i>	
T3-7.1	16:20-16:40	Study of Acoustic Source Localization Algorithm for Planar Arrays^{++&}	T4-3.4	10:00-10:20
GVSSKR NAGANJANEYULU, K.V.S. HARI <i>Indian Institute of Science</i>			Output Rate-Controlled Generalized Processor Sharing: End-to-End Delay Bounds Calculation⁺⁺	
T3-7.2	16:40-17:00	A Spearman Correlation Coefficient Ranking for Matching Score Fusion on Speaker Recognition^{+++\$}	Masaki HANADA, *Hidenori NAKAZATO, Hiroshi WATANABE <i>Tokyo University of Science, *Waseda University</i>	
*Di LIU, Siu-Yeung CHO, *Dong-Mei SUN, *Zheng-Ding QIU <i>Nanyang Technological University,</i> <i>*Beijing Jiaotong University</i>			T4-4: Security & System	
T3-7.3	17:00-17:20	Research on Bandwidth Efficient Underwater Acoustic Communications^{++*}	Room 414	November 23, 2010
Chengbing HE, Jianguo HUANG, Qunfei ZHANG <i>Northwestern Polytechnical University</i>			<i>Chair: Yukinobu FUKUSHIMA (Okayama University)</i>	
T3-7.4	17:20-17:40	Personal Speech Calendar with Timing Keywords Aware and Schedule Time Prediction Functions^{++(\$}	T4-4.1	11:20-11:40
Po-Chuan LIN <i>Tung Fang Institute of Technology</i>			Performance Evaluation of Multi-Stage Change-Point Detection Scheme with Alert Weighting⁺⁺	
T3-7.5	17:40-18:00	An Improved Method for Predicting Fundamental Frequency Contour in Mandarin Text-to-Speech System with a Small Corpus⁺⁽⁾	Mari NAKAGAWA, Yukinobu FUKUSHIMA, *Tutomo MURASE, *Ryohei FUJIMAKI, **Shunsuke HIROSE, Tokumi YOKOHIRA <i>Okayama University, *NEC Corporation,</i> <i>**SAS Institute Japan</i>	
Liang WANG, Jie ZHU, Yao LV <i>Shanghai Jiao Tong University</i>			T4-4.2	11:40-12:00
T3-7.6	18:00-18:20	A Two Pass Algorithm for Speaker Change Detection⁺⁽⁻	RDAP: Rapid Deployment Authentication Protocol between Mobile Devices and Femtocells⁺⁺⁽⁾	
Sunil Kumar KOPPARAPU, Ahmed IMRAN, G. SITA <i>Tata Consultancy Services Limited</i>			Yao-Hsin CHEN, *Li-Wei HUANG, Yue-Hsun LIN, Shao-Wei HUANG, Chun-Hao YEH, Hung-Min SUN <i>National Tsing Hua University,</i> <i>*Institute for Information Industry</i>	
T3-7.7	18:20-18:40	An Acoustic Echo Cancellation Scheme Based on Particle Swarm Optimization Algorithm^{++'}	T4-4.3	12:00-12:20
Upal MAHBUB, Partha Pratim ACHARJEE, Shaikh Anowarul FATTAH <i>Bangladesh University of Engineering and Technology</i>			A New Business Model in Pay-TV Broadcasting Systems and Its Conditional Access System^{++%}	
			Chien-Ming CHEN, *Hsin-Ta CHIAO, Shiuan-Tung CHEN, Hung-Min SUN <i>National Tsing Hua University,</i> <i>*Industrial Technology Research Institute</i>	
			T4-4.4	12:20-12:40
			Mitigate Web Phishing Using Site Signatures⁺⁺⁺	
			Chun-Ying HUANG, Shang-Pin MA, Wei-Lin YEH, Chia-Yi LIN, *Chien-Tsung LIU <i>National Taiwan Ocean University,</i> <i>*Institute for Information Industry</i>	

T4-5: Traffic & Optical		
Room 414	November 23, 2010	
Chair: Nobuo FUNABIKI (Okayama University)		
T4-5.1	14:10-14:30	
Early Detection of Increasing Traffic with Distributed Traffic Measurement'', \$'		
Yukinobu FUKUSHIMA, Mamoru NIBOSHI, *Tutomo MURASE, *Ryohei FUJIMAKI, **Shunsuke HIROSE, Tokumi YOKOHIRA Okayama University, *NEC Corporation, **SAS Institute Japan		
T4-5.2	14:30-14:50	
A Design Approach to Automotive Network Controller Based Black Box Using Master/Slave Controllers'', \$-		
Milind KHANAPURKAR, Rajendra REWATKAR, Preeti BAJAJ G. H. Raisoni College of Engineering		
T4-5.3	14:50-15:10	
New Strategies for Efficient Traffic Grooming with Assured Survivability in De Bruijn WDM Networks'', %		
Monish CHATTERJEE, Ankur PAUL, Somarka CHAKRAVARTI, *Abhijit SHARMA, **Tanmay KARMY, **Uma BHATTACHARYA Asnasol Engineering College, *National Institute of Technology, **Bengal Engg. & Sc. University Shibpur		
T4-5.4	15:10-15:30	
A Node Aggregation Approach for WDM Ring Networks'', &		
Nobuo FUNABIKI, Toru NAKANISHI, Megumi ISOGAI Okayama University		
T4-6: Wireless (1)		
Room 414	November 23, 2010	
Chair: Mark GREGORY (RMIT University)		
T4-6.1	16:20-16:40	
On the Decodable Probability Bound of Linear Network Coding in Acyclic Lossy Networks'', &		
Wuttipong KUMWILAIKAN King Mongkut's University of Technology		
T4-6.2	16:40-17:00	
Performance Analysis of Uplink Sounding in Frequency Selective Fading Channel'', ')		
Hyung-Sin KIM, Seung-Hwan LEE, Yong-Hwan LEE Seoul National University		
T4-6.3	17:00-17:20	
Fixed Contention Window Backoff Scheme for the Contention-Based IEEE 802.11 MAC'', (%)		
Yaw-Wen KUO, Tung-Lin TSAI National Chi Nan University		
T4-6.4	17:20-17:40	
User Grouping and Adaptive Modulation for Downlink MC-CDMA Systems'', (*		
Chun-Chieh LU, Guan-Yi SHEN, Yaw-Wen KUO National Chi Nan University		
T4-6.5	17:40-18:00	
Pricing and Optimal Power Allocation in Collaborative Primary-Secondary Transmission Using Superposition Coding'',)%		
Insook KIM, Dongwoo KIM Hanyang University		
T4-6.6	18:00-18:20	
Fair, Class Based, Delay Jitter Controlled Packet Scheduling Scheme Managing Handoff and Buffer Occupancy for 4G Wireless Access Systems'', *)		
Hussain MOHAMMED, Mark A. GREGORY RMIT University		
T10-4: Microwave Devices		
Room 405	November 23, 2010	
Chair: Mohad Fadzil Ain (Universiti Sains Malaysia)		
T10-4.1	09:00-09:20	
A Compact and UWB Time-Delay Line Inspired by CRLH TL Unit Cell'', *&		
J. ZHANG, S.W. CHEUNG, T.I. YUK The University of Hong Kong		
T10-4.2	09:20-09:40	
Parasitic Dielectric Resonators Excited Horn Antenna at 38GHz'', *, +		
Mohd Fadzil AIN, Zainal Arifin AHMAD, Mohamadariff OTHMAN, Ihsan Ahmad ZUBIR, *Ali OTHMAN, *Ahmad Asari SULAIMAN Universiti Sains Malaysia, *Universiti Teknologi MARA		
T10-4.3	09:40-10:00	
Design of 5 th -Order Analog Predistorter'', +\$		
X.L. SUN, S.W. CHEUNG, T.I. YUK The University of Hong Kong		
T10-5: Radio Wave Propagation		
Room 405	November 23, 2010	
Chairs: Horace KING (BioMed and WireLess Technologies) and Mayumi MATSUNAGA (Ehime University)		
T10-5.1	11:20-11:40	
An Analysis of the Electromagnetic Waves Propagating inside Rooms in which People Exist'', , +		
Mayumi MATSUNAGA, *Toshiaki MATSUNAGA Ehime University, *Fukuoka Institute of Technology		
T10-5.2	11:40-12:00	
Performance Analysis of Smart Antenna System for Mobile Terminals'', , +		
Hak-Lim KO, Yong-Hyun SEO, Kil-Yong KIM, Deok-Won YUN, Ok-Min KIM, Dae-Geon CHO, Seok-Hoon LEE Hoseo University		
T10-5.3	12:00-12:20	
Comparison between Xia and Walfisch-Ikegami Models for Low-Rise Building Path Loss Prediction'', , '		
Supachai PHAIBOON, Pisit PHOKHARATKUL Mahidol University		
T10-5.4	12:20-12:40	
Performance Analysis of SOHO in DSSS Composite Neighbour Sets: A Function of E_b/N_0 and BER Influenced by Peak Electromagnetic Field Intensity of an N -Element Linear Array Antenna'', , +		
Horace L. KING BioMed and Wireless Technologies		
T5-1: Image Analysis		
Room 405	November 23, 2010	
Chair: Rin-ichiro TANIGUCHI (Kyushu University)		
T5-1.1	14:10-14:30	
Fault-Tolerant Image Filter Design Using GA'', - %		
Zhiguo BAO, Fangfang WANG, Xiaoming ZHAO, Takahiro WATANABE Waseda University		

T5-1.2 A Reliability Estimation Method of Character Recognition Using Maximization of Error-Rejection Rate ^{-- +}	14:30-14:50	T2-4.2 RF MEMS DMTL Phase Shifter on Low- Resistivity Silicon for Ku Band with Reduced Substrate Loss ^{--)%}	09:20-09:40
Yoshimasa KIMURA, Hiroyuki NISHI, Eiich MUKAI <i>Soho University</i>		Avra KUNDU, Bhaskar GUPTA, *Hiranmay SAHA, **Binay K. SARKAR, **Samir K. LAHIRI <i>Jadavpur University, *Bengal Engineering and Science University, **I.I.T, Kharagpur</i>	
T5-1.3 A Novel Approach for Traffic Sign Detection and Classification with Centroid Matching ^{-- \$}	14:50-15:10	T2-4.3 Electric Conduction Improvement of Well-Structured Multi-Walled Carbon Nanotubes ^{-- +}	09:40-10:00
Jitendra N. CHOURASIA, Preeti BAJAJ <i>G. H. Raisoni College of Engineering</i>		J. T. H. TSAI, Y. T. CHIAO, *Y. ZHANG, *W. I. MILNE <i>Tatung University, *University of Cambridge</i>	
T5-1.4 Clickable Real World: Interaction with Real-World Landmarks Using Mobile Phone Camera ^{-- \$}	14:10-15:30	T2-5: Processing	November 23, 2010
Naoyuki ABE, Wataru OOGAMI, Atsushi SHIMADA, Hajime NAGAHARA, Rin-ichiro TANIGUCHI <i>Kyushu University</i>		Room 404 <i>Chair: Giichiro UCHIDA (Kyushu Univ.)</i>	
T5-1.5 Bicycle Detection Using Pedaling Movement by Spatiotemporal Gabor Filtering ^{-- %}	15:30-15:50	T2-5.1 Generation and Characterisation of Nano Tungsten Carbide Particle by Wire Explosion Process (Invited Paper) ^{-- *\$}	11:20-11:50
Kazuyuki TAKAHASHI, Yasutaka KURIYA, Takashi MORIE <i>Kyushu Institute of Technology</i>		B. DEBALINA, M. KAMARAJ, N.J. VASA, S. R. CHAKRAVARTHI, R. SARATHI <i>IIT Madras</i>	
<hr/>			
T5-2: Robotics and Applications		T2-5.2 Control of Crystalline and Electronic Structures of Carbon Nanowalls for Their Device Applications (Invited Paper) ^{-- **}	11:50-12:20
Room 405	November 23, 2010	Hiroki KONDO, Masaru HORI, *Mineo HIRAMATSU <i>Nagoya University, *Meijo University</i>	
<i>Chair: Yoshimasa KIMURA (Sojo University)</i>			
T5-2.1 Automatic Construction of Gesture Network for Gesture Recognition ^{-- %}	16:20-16:40	T2-5.3 Etch Chemistry Effect Study for Poly Stringer Defecton High Topology PIP Process ^{-- +\$}	12:20-12:40
Akihiro MORI, Seiichi UCHIDA, Ryo KURAZUME, Rin-ichiro TANIGUCHI, Tsutomu HASEGAWA <i>Kyushu University</i>		Gladys NGIAW, Oh Sang HUN, Chai Yu CHEN, You Hyuk JOON <i>X-FAB Sarawak Sdn. Bhd</i>	
T5-2.2 System of Recognizing Human Action by Mining in the Intelligent Space ^{-- &}	16:40-17:00	T2-6: ZnO-related Material I	
Kazumasa MURAKAMI, Yihsin HO, Takahiro IIJIMA, Toru YAMAGUCHI <i>Tokyo Metropolitan University</i>		Session co-sponsored by Special Coordination Funds for Promoting Science and Technology	
T5-2.3 On the Motion Planning of Human-Like Reaching Movements by a Minimum Variance Model ^{-- &}	17:00-17:20	Room 404 <i>Chair: M. S. Ramachandra RAO (Indian Institute of Technology Madras, India)</i>	November 23, 2010
Mikhail SVININ, Motoji YAMAMOTO <i>Kyushu University</i>		T2-6.1 Structure and Photoluminescence of C-Axis Oriented Nnanocrystalline ZnO Films Synthesized by Plasma Assisted Pulsed Laser Deposition (Invited Paper) ^{-- +}	14:10-14:40
T5-2.4 Velocity Kinematics Based Control of Rocker-Bogie Type Planetary Rover ^{-- ''}	17:20-17:40	Jie GAN, Kun GAO, Qian LI, Jian SUN, Ning XU, Jiada WU <i>Fudan University</i>	
Shrikant PARAKH, Pankaj WAHI, Ashish DUTTA <i>Indian Institute of Technology Kanpur</i>		T2-6.2 Radial and Axial Nanowire Heterostructures Grown with ZnO Nanowires as Templates (Invited Paper) ^{-- , \$}	14:40-15:10
T5-2.5 Optimized Robust Controller for AUV-Manipulator System ^{-- -}	17:40-18:00	B. Q. CAO, X. L. HU, H. M. WEI, H. Y. XU <i>University of Jinan</i>	
Periasamy THANGAVEL, Asokan THONDIYATH, Singaperumal MAKARAM <i>IIT Madras, *IIT Madras, **IIT Madras</i>		T2-6.3 Synthesis of Layer-Structured ZnO Nano-Crystals by Nanoparticle-Assisted Pulsed Laser Deposition ^{-- , (}	15:10-15:30
<hr/>			
T2-4: Devices		D. NAKAMURA, K. OKAZAKI, A. KUMEDA, K. TOYA, K. KUBO, K. TSUTA, M. HIGASHIHATA, T. OKADA <i>Kyushu University</i>	
Room 404	November 23, 2010		
<i>Chair: Taizo SADOH (Kyushu Univ.)</i>			
T2-4.1 Grain Filtering in MILC and Its Impact on Performance on n- and p-channel TFTs ^{-- (}	09:00-09:20	T2-6.4 Sp ³ -Bonded New Phases of BN; Their Growth by Laser-Plasma Synchronous Processing and Applications ^{-- , +}	15:30-15:50
Sho NAGATA, Gou NAKAGAWA, Tanemasa ASANO <i>Kyushu University</i>		Shojo KOMASTU, Kazuaki KOBAYASHI, Takahiro NAGATA, Toyohiro CHIKYO <i>National Institute for Materials Science</i>	

T2-7: ZnO-related Material II

Session co-sponsored by Special Coordination Funds for Promoting Science and Technology

Room 404 **November 23, 2010**
Chair: Bing Quiang CAO (University of Jinan, China)

T2-7.1 **16:20-16:50**
Thin Film Growth, Electrical Transport and Ohmic Contact Studies of p-ZnO (Invited Paper)''- , -

E. Senthil KUMAR, Jyothirmoy CHATERJEE, Shubra SINGH, Nandita DASGUPTA, M. S. Ramachandra RAO

Indian Institute of Technology Madras

T2-7.2 **16:50-17:20**
Novel Fabrication Method for Oxide Semiconductors Via Atomic-Additive Mediated Crystallization (Invited Paper)''- &

Naho ITAGAKI
Kyushu University

T2-7.3 **17:20-17:40**
Deposition of Transparent Conducting Al-Doped ZnO Thin Films by ICP-Assisted Sputtering''- *

Ryota SHINDO, Tadashi IWATA, Akinori HIRASHIMA, Masanori SHINOHARA, Yoshinobu MATSUDA

Nagasaki University

T2-7.4 **17:40-18:00**
Low-Temperature Photoluminescence of Phosphorous-Doped ZnO Nanowires Synthesized by Nanoparticle-Assisted Pulsed-Laser Deposition''%\$%

Kentaro SAKAI, Atsuhiro FUKUYAMA, Tetsuo IKARI, *Tatsuo OKADA

*University of Miyazaki, *Kyushu University*

T2-7.5 **18:00-18:20**
Recombination Dynamics of Excitons in Phosphorus-Doped ZnO Nanostructures ''%\$)

Hideaki MUROTANI, Daiki AKASE, Yoichi YAMADA, *Takafumi MATSUMOTO, *Daisuke NAKAMURA, *Tatsuo OKADA

*Yamaguchi University, *Kyushu University*

T7-1: Modeling and Theoretical Aspects

Room 403 **November 23, 2010**
Chair: Yoichi OMORI (Kyushu University)

T7-1.1 **09:00-09:20**
Enterprise Service Bus Dependency Injection on MVC Design Patterns ''%\$-

Sidhant RAJAM, Ruth CORTEZ, Alexander VAZHENIN, Subhash BHALLA

University of Aizu

T7-1.2 **09:20-09:40**
Robust Genetic Network Programming on Asset Selection''%%

Victor PARQUE, Shingo MABU, Kotaro HIRASAWA

Waseda University

T7-1.3 **09:40-10:00**
Theoretical Analysis on Pruning Nearest Neighbor Candidates by Locality Sensitive Hashing''%&%

Tomoyuki MUTOH, Masakazu IWAMURA, Koichi KISE

Osaka Prefecture University

T7-1.4 **10:00-10:20**
A Heuristic Algorithm for Computing Parallel Degree of Well-Structured Workflow Nets ''%&)

Nan QU, Shingo YAMAGUCHI

Yamaguchi University

T7-2: Network and Remote System

Room 403 **November 23, 2010**
Chair: Kunihiko KANEKO (Kyushu University)

T7-2.1 **11:20-11:50**
Recovery Processing for High Availability Stream Processing Systems in Local Area Networks (Invited Paper)''%\$ \$

Masayoshi ARITSUGI, Kyoko NAGANO
Kumamoto University

T7-2.2 **11:50-12:10**
Study of a Remote Monitoring System for Senior Drivers''%\$ *

Hiroyuki YAMAGISHI, Hidekazu SUZUKI, Akira WATANABE

Meijo University

T7-2.3 **12:10-12:30**
Accelerate In-Line Packet Processing Using Fast Queue''%\$ (& Chun-Ying HUANG, Chi-Ming CHEN, Shu-Ping YU, Sheng-Yao HSU, *Chih-Hung LIN

National Taiwan Ocean University,

*Institute for Information Industry

T7-3: Software Engineering

Room 403 **November 23, 2010**
Chair: Shigeru KUSAKABE (Kyushu University)

T7-3.1 **14:10-14:30**
Ontology Based Semiformal Design of Teleteaching System ''%\$ (+

Animesh DUTTA, Vivek NAIR,
*Ranjan DASGUPTA, Swapan BHATTACHARYA
NIT Durgapur, *NITTTR Kolkata

T7-3.2 **14:30-14:50**
Reusable Aspect Components for Web Applications ''%\$)'

Keiji HOKAMURA, Naoyasu UBAYASHI,

*Shin NAKAJIMA, **Akihito IWAI

*Kyushu University, *National Institute of Informatics,*

**DENSO CORPORATION

T7-3.3 **14:50-15:10**
Tool Support for Domain Analysis of the Software Specification in Natural Language ''%\$)-

Yoichi OMORI, Keijiro ARAKI

Kyushu University

T7-3.4 **15:10-15:30**
Perverse UML for Generating Web Applications Using YAMDAT ''%\$*)

Kurt T. RUDAHL, Sally E. GOLDIN
King Mongkut's University of Technology Thonburi

T7-3.5 **15:30-15:50**
A Relationship between the Quality Attributes and the Trust in Financial Services Information Systems ''%\$+%

Weng Tat CHAN, Ying FENGWEI

National University of Singapore

T7-4: Virtualization and High Performance Computing

Room 403 **November 23, 2010**
Chair: Teruaki KITASUKA (Kumamoto University)

T7-4.1 **16:20-16:50**
Academic Refactoring Through Realizing Academic Cloud (Invited Paper)''%\$+*

Shoji KAJITA
Nagoya University

T7-4.2 **16:50-17:10**
SIVARM: A Virtual Machine Monitor for the ARM Architecture ''%\$, &

Akihiro SUZUKI, Shuichi OIKAWA
University of Tsukuba

T7-4.3 Hybrid OpenCL over High Speed Networks Ryo AOKI, Shuichi OIKAWA, *Ryoji TSUCHIYAMA, *Takashi NAKAMURA University of Tsukuba, *Fixstars Corporation	17:10-17:30	T8-2.4 A Nanopower Single-Trim Voltage Reference in a 0.13μm Digital CMOS Process Yueming SUN, Jiana LOU, Xiaobo WU Zhejiang University	12:20-12:40
T7-4.4 Parallel Programming Framework for Heterogeneous Computing Environment with Xen Virtualization Masamitsu HONJO, Atsushi KUBOTA, Toshiaki KITAMURA Hiroshima City University	17:30-17:50		
T8-1: Analog Circuit Design Room 402 November 23, 2010 Chair: Shigetoshi NAKATAKE (University of Kitakyushu)		T8-3: LSI Design (2) Room 402 November 23, 2010 Chairs: Xiaoquing WEN (Kyushu Institute of Technology) and Yusuke MATSUNAGA (Kyushu University)	
T8-1.1 A New CMOS Bandgap Low Voltage Reference without Resistance Rasoul DEHGHANI Isfahan University of Technology	09:00-09:20	T8-3.1 A Statistical Error-Compensated Booth Multipliers and Its DCT Applications Yuan-Ho CHEN, Tsin-Yuan CHANG, Ruei-Yuan JOU National Tsing Hua University	14:10-14:30
T8-1.2 A New Dynamic Fast-Settling Low Dropout Regulator with Programmable Output Voltage Hsiang-Hsiung CHANG, Jsung-Mo SHEN, Wei-Bin YANG, *Yu-Lung LO Tamkang University, *National Kaohsiung Normal University	09:20-09:40	T8-3.2 Critical Search Delay Measurement in Embedded Content Addressable Memories with BIST P. MANIKANDAN, Bjørn B. LARSEN, Einar J. AAS Norwegian University of Science and Technology	14:30-14:50
T8-1.3 Design of the Low-Noise LC Oscillator with the Digital Frequency Tuning Based on the Composite Resonator Oleg NIZHNIK, *Ramesh K. POKHAREL, *Haruichi KANAYA, *Keiji YOSHIDA Maenaka Human-sensing Fusion Project, *Kyushu University	09:40-10:00	T8-3.3 Active Balun Circuits for WiMAX Receiver Front-End Frederick Ray I. GOMEZ, Maria Theresa G. DE LEON, Christian Raymund K. ROQUE University of the Philippines	14:50-15:10
T8-1.4 A New Low Power Flash ADC with Configurable Resolution Mahesh Kumar ADIMULAM, Krishna Kumar MOVVA, Sreehari VEERAMACHANENI, N Moorthy MUTHUKRISHNAN, M.B SRINIVAS Birla Institute of Technology and Science – Pilani	10:00-10:20	T8-3.4 A 1.2V 246μW CMOS Latched Comparator with Neutralization Technique for Reducing Kickback Noise Ghazal A. FAHMY, R. K. POKHAREL, H. KANAYA, K. YOSHIDA Kyushu University	15:10-15:30
T8-2: LSI Design (1) Room 402 November 23, 2010 Chair: Haruichi KANAYA (Kushu University)		T8-3.5 A High Precision, Low Power DLL for Memory Interfaces Gudipati KALYAN, *M.B. SRINIVAS Centre for VLSI & Embedded Systems IIIT Hyderabad, *Electronics and Communication Engineering BITS-Pilani	15:30-15:50
T8-2.1 A High Throughput Digital Rank Order Filter in 0.18μm CMOS Technology George John TOSCANO, *Pran Kanai SAHA American International University-Bangladesh, *Bangladesh University of Engineering and Technology	11:20-11:40		
T8-2.2 System-Level Simulation and Analysis of a WiMAX Direct-Conversion Receiver in 90nm CMOS Lendl Israel M. ALUNAN, Maria Theresa G. DE LEON, Christian Raymund K. ROQUE University of the Philippines	11:40-12:00	T8-4.1 Analysis and Effects of D.C Motor Parameters Variations of the Transistor Controlled H-Bridge Motor Driver Circuit Using MATLAB Simulink® Modeling Vibhor GUPTA Panjab University	16:20-16:40
T8-2.3 Novel Design Concept and Technologies of the Switching Mode Circuit Based on the Electromagnetic Wave Theory and the Nonlinear Undulation Theory Hirokazu TOHYA, Noritaka TOYA ICAST, Inc.	12:00-12:20	T8-4.2 Accuracy of Circuit Analysis Method Using Wavelet Transform with Adaptive Resolutions Masanori OISHI, Seiichiro MORO, *Tadashi MATSUMOTO University of Fukui, *Fukui University of Technology	16:40-17:00
		T8-4.3 The Implementation of an Adaptive Bandwidth All-Digital Phase-Locked Loop Chen-Feng CHEN, Yawgeng A. CHAU Yuan-Ze University	17:00-17:20

T8-4.4 17:20-17:40
Consideration on Efficiency and Distortion in a Power-Factor-Corrected Constant-Voltage Constant-Current AC Power Supply Having Variable Capacitance Devices ^{**\$}

Akihiko KATSUKI, Takuya OKI
Kyushu Institute of Technology

T8-4.5 17:40-18:00
Design and Analysis of High Efficiency DC-DC Boost Converter with Active Resonant Technique for Small Grid-Connected PV Systems ^{***}

Damrong AMORNDECHAPHON,
*Suttiphat PREMRUDEEPREECHACHARN,
**Kohji HIGUCHI
*Phayao University, *Chiangmai University,
**The University of Electro-Communications*

T8-4.6 18:00-18:20
FPGA Implementation of a Time Domain Reflectometry (TDR) System for Slope Monitoring Applications ^{**&}
Miguel Carlo L. PURISIMA, Joel S. MARCIANO, JR., Roberto D. De JOYA JR., Paula P. MOGATAS, Carmela A. SALAZAR
University of the Philippines Diliman

WIE-4: Networks and Communications

Room 412 November 23, 2010
Chair: Ray ATARASHI (IIJ Innovation Institute, Japan)

WIE-4.1 09:00-09:20
High-Speed Fiber-Linked Remote Reconfiguration ^{**+}
Yumiko UENO, Minoru WATANABE
Shizuoka University

WIE-4.2 09:20-09:40
An Efficient 3D NoC Synthesis by Using Genetic Algorithms ^{**\$}
Xin JIANG, Takahiro WATANABE
Waseda University

WIE-4.3 09:40-10:00
Model of Tie-Breaking Metric and Performance Evaluation of BGP ^{**\$+}
Ting LU, Jie ZHU
Shanghai Jiao Tong University

WIE-4.4 10:00-10:20
Power Performance Measurement for 2-D Mesh for Network on Chip ^{**%}
Vijay LAXMI, Varsha SHARMA, Rekha AGARWAL, M. S. GAUR, V. VINEETHA
Malaviya National Institute of Technology

WIE-5: Devices and Antennas

Room 412 November 23, 2010
Chair: Naho ITAGAKI (Kyushu University, Japan)

WIE-5.1 11:20-11:40
AlGaN/GaN MOS-HEMTs with ZnO Gate Insulator and Chlorine Surface Treatment ^{**%}
Ya-Lan CHIOU, Ching-Ting LEE
National Cheng Kung University

WIE-5.2 11:40-12:00
Double Layer Patch Antenna Array Using Novel EBG Structure for Reducing Mutual Coupling Losses ^{**%}
B. BHUVANESWARI, *K. MALATHI
*Meenakshi College of Engineering,
Anna University

T1-8: Power Electronics (IV)

Room 411 November 24, 2010
Chair: Seiya ABE (The International Centre for the Study of East Asian Development)

T1-8.1 09:00-09:20
Variable Structure Control with Grey Prediction of PWM Inverters ^{**&}
En-Chih CHANG, *Fu-Juay CHANG,
**Jiann-Fuh CHEN, **Tsorng-Juu LIANG
*I-Shou University, *National United University,
**National Cheng Kung University*

T1-8.2 09:20-09:40
Modified Adaptive Variable Step-Size MPPT Based-on Single Current Sensor ^{**&}
Emad M. AHMED, Masahito SHOYAMA
Kyushu University

T1-8.3 09:40-10:00
An Analysis of Bidirectional Superposed Dual Active Bridge DC-DC Converter with Synchronous Rectifier ^{**&}
Toshiro HIROSE, *Takayuki KIMURA,
**Kosuke HARADA, *Hirofumi MATSUO
*Nishimura Electronics Industries Co., Ltd.,
Nagasaki University, **Sojo University*

T1-8.4 10:00-10:20
Low Temperature Evaluation of Commercial DC/DC Converters for Military Applications ^{**%}
E. J. YOO, T. Y. LEE, W. Y. CHOI, Y. W. PARK
Chungnam National University

T1-9: Power Electronics (V)

Room 411 November 24, 2010
Chair: Masahito SHOYAMA (Kyushu University)

T1-9.1 11:10-11:30
Improvement of Start-up and Transient Characteristics of Digital-Controlled DC-DC Converter Using Switching-Timing Predictive PWM Control ^{**()}
Takeshi USUDA, Takeshi TAKAYANAGI, Yasuhiro MASUYA, *Yoshiki MATSUO
*COSEL Co., Ltd., *Tokyo University of Technology*

T1-9.2 11:30-11:50
Discrete-Time Fuzzy Sliding Mode Control of a UPS Inverter Feeding Nonlinear Loads ^{**\$}
En-Chih CHANG, Li-Peng YIN, *Fu-Juay CHANG,
**Tsorng-Juu LIANG, **Jiann-Fuh CHEN
*I-Shou University, *National United University,
**National Cheng Kung University*

T1-9.3 11:50-12:10
Control and Simulation Analysis of Bidirectional Converter for Discharge and Charge Applications ^{**()}
B.L. NARASIMHARAJU, Dubey SATYA PRAKASH, S. P. SINGH
Indian Institute of Technology

T1-17: Electric Power System Analysis (V)

Room 406 November 24, 2010
Chair: Junya SUEHIRO (Kyushu University)

T1-17.1 09:00-09:20
Generalized Sagittal Diagram for Fault Equipment Identification within a Transmission System ^{**\$}
Ngoc TRAN-HUYNH, Naebboon HOONCHAREON
Chulalongkorn University

T1-17.2	09:20-09:40	T3-8.4	10:00-10:20
A Comparison between Silicone Rubber and EPDM under Polluted Dust with Ozone, UV and Temperature ^{**}		Low Noise-Low Power Digital Phase-Locked Loop ^{**%}	
Apisit CHAISAENG SUKKUL, Vigit KINARES, Norasage PATTANADECH <i>King Mongkut's Institute of Technology</i>		M. SABER, Y. JITSUMATSU, *M.T.A. KHAN <i>Kyushu University,</i> <i>*Ritsumeikan Asia Pacific University</i>	
T1-17.3	09:40-10:00	T3-8.5	10:20-10:40
Malfunction Suppression of Semiconductor Circuit Breaker in High Voltage DC Power Supply System ^{**&+}		Blind Carrier Frequency Offset and Channel Estimation Using ICA in QAM-OFDM Systems ^{**%} &	
Seiya ABE, *Sihun YANG, *Mariko OGAWA, *Masahito SHOYAMA, **Tamotsu NINOMIYA, ***Akira MATSUMOTO, ***Akiyoshi FUKUI, ***Mikio YAMASAKI <i>ICSEAD, *Kyushu University, **Nagasaki University, ***NTT Facilities</i>		Hiroshi SHIRATSUCHI, *Nobuo IWASAKI, Hironori TANAKA, **Takaaki ISHIBASHI, Naomi HARATANI, Yosimasa NAKANO, Hiromu GOTANDA <i>Kinki University, *Kyushu Institute of Technology, **Kumamoto National College of Technology</i>	
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T1-18: Power Electronics (VI)		T3-9: Network Communications	
Room 406	November 24, 2010	Room 413	November 24, 2010
Chair: Seiya ABE (<i>The International Centre for the Study of East Asian Development</i>)		Chair: Jian ZHANG (<i>Waseda University</i>)	
T1-18.1	11:10-11:30	T3-9.1	11:10-11:30
Controller Design for DFIG-Based Wind Power Generation Using Zakian's Framework ^{**&+} ,		A Modified ML Decision for the Relay-Based Cooperative Communication System Using Complex Field Network Coding ^{**% '\$}	
Pisitpol CHIRAPONGSANANURAK, Naebboon HOONCHAROEN, Suchin ARUNSAWATWONG <i>Chulalongkorn University</i>		Young Il MIN, Jun Hee JANG, Hyung Jin CHOI <i>Sungkyunkwan University</i>	
T1-18.2	11:30-11:50	T3-9.2	11:50-12:10
1st Report of a Study on Gyroscopic Power Generator - Prototype and Its Fundamental Characteristics - ^{**%} (Speech Enhancement Method Based on Spectral Filtering Utilizing Asynchronous Signals with Embedded Timecode over TCP/IP Based Network ^{**% '()}	
Yohei KAMIYA, Hiroshi HOSAKA, Manabu KASAHIARA <i>The University of Tokyo</i>		Tomohisa MASIMIMA, Yoshifumi CHISAKI, Tsuyoshi USAGAWA <i>Kumamoto University</i>	
T1-18.3	11:50-12:10	T4-7: Wireless (2)	
Maximum Power Point Tracking of Wind Power Generator Using Inverter Excited Induction Machine ^{**%, -}		Room 414	November 24, 2010
Noriyuki KIMURA, Kenichi NAKATANI, Toshimitsu MORIZANE <i>Osaka Institute of Technology</i>		Chair: Hendra SETIAWAN (<i>Kyushu Institute of Technology</i>)	
T1-18.4	12:10-12:30	T4-7.1	09:00-09:20
Design of Low-Profile LLC Resonant Converter for Low Transformer Loss ^{**%-)}		A Study on DSSS Transceivers Using OQPSK Modulation by IEEE 802.15.4 in AWGN and Flat Rayleigh Fading Channels ^{**% (%)}	
Sihun YANG, Masahito SHOYAMA, *Seiya ABE <i>Kyushu University,</i> <i>*The International Centre for the Study of East Asian Development</i>		Shudong FANG, Stevan BERBER, Akshya SWAIN, Saeed Ur REHMAN <i>The University of Auckland</i>	
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T3-8: Signal Processing (II)		T4-7.2	09:20-09:40
Room 413	November 24, 2010	The Local Minima Convergence State Detector for QPSK Equalizer ^{**% (*}	
Chair: Naoyuki TSURUTA (<i>Fukuoka University</i>)		Jongman GIM, Seoungduk CHOI, *Changsoo EUN <i>Pinetelcom, *Chungnam National University</i>	
T3-8.1	09:00-09:20	T4-7.3	09:40-10:00
Parameterization of Perfect Sequences ^{**% \$%}		Doppler Estimation Based on Signal Phase Matching Principle in Wideband OFDM ^{**%) &}	
Takao MAEDA, Takafumi HAYASHI <i>University of Aizu</i>		Jianguo HUANG, Maohua RAN, Tao ZHANG, Fangfei WU <i>Northwestern Polytechnical University</i>	
T3-8.2	09:20-09:40	T4-7.4	10:00-10:20
Performance Analysis of Monopulse Estimation Based on PD System ^{**% \$+}		RAM Based Physical-Layer Identity Detector for 3GPP Long Term Evolution ^{**% *}	
Jun WANG, Peng GUO, Peng LEI, Shaoming WEI <i>Beihang University</i>		Hendra SETIAWAN, Masayuki KUROSAKI, Hiroshi OCHI <i>Kyushu Institute of Technology</i>	
T3-8.3	09:40-10:00		
Noise Analysis in Mobile Radio Environments Using Pathlets and Symlet 2 Wavelets ^{** %%}			
Olusegun A. ABOABA <i>Curtin University</i>			

T4-8: Wireless (3)

Room 414

November 24, 2010

Chair: Hendra SETIAWAN (*Kyushu Institute of Technology*)**T4-8.1****Software Defined Radio for RFID Signal in Rayleigh Fading Channel** ~% * &M. ISLAM, M. A. HANNAN, S. A. SAMAD,
A. HUSSAIN
*Universiti Kebangsaan Malaysia***T4-8.2****Performance Analysis of RCPC V-BLAST MIMO Using Equivalent Convolutional Codes** ~% * +Gunawan WIBISONO, Dadang GUNAWAN,
Lydia SARI
*University of Indonesia***T4-8.3****Criteria on Ordering in Closed-Loop MIMO-SIC Receiver** ~% +Won Seok PARK, Jin Whan KANG, Sang-Hyo KIM,
*Sung-Soo KIM
*Sungkyunkwan University, *Samsung Electronics*

T5-3: Soft Computing

Room 405

November 24, 2010

Chair: Cesar ORTEGA-SANCHEZ (*Curtin University of Technology*)**T5-3.1****A Neural Network Based Speed Control of a Linear Induction Motor Drive** ~% +-A.A. HASSAN, Yehia S. MOHAMED,
Adel. A. ELBASSET, *T. HIYAMA, *T. H. MOHAMED
*Minia University, *Kumamoto University***T5-3.2****Small-Scale Helicopter System Identification Model Using Recurrent Neural Networks** ~% - +Zahari. TAHA, Abdelhakim DEBOUCHA,
Mahidzal Bin DAHARI
*University of Malaya***T5-3.3****Probabilistic Model Building Genetic Network Programming Using Multiple Probability Vectors** ~% - &Xianpeng LI, Shingo MABU, Manoj K. MAINALI,
Kotaro HIRASAWA
*Waseda University***T5-3.4****Genetic Network Programming with Route Nodes** ~% -,Fengming YE, Shingo MABU, Lutao WANG,
Kotaro HIRASAWA
*Waseda University***T5-3.5****Optimized Particle Filter with Genetic Algorithm** ~% \$ -Zahidul ISLAM, Chi-Min OH, Chil-Woo LEE
Chonnam National University

T5-4: Intelligent Data Analysis

Room 405

November 24, 2010

Chair: Seiichi UCHIDA (*Kyushu University*)**T5-4.1****Bluetooth-Based Indoor Positioning with Fuzzy Based Dynamic Calibration** ~% \$ -Ehad AKEILA, Zoran SALCIC, Akshya SWAIN,
Aaron CROFT, Jeremy STOTT
*University of Auckland***T5-4.2****Improving the Accuracy of Indoor User Location Using IEEE 802.11 Signals** ~% %Teddy MANTORO, Media A. AYU
*International Islamic University Malaysia (IIUM)***T5-4.3****Demand Forecasting Model of Service Parts with Different Failure Rate** ~% &%Satoshi MUNAKATA, Masaru TEZUKA,
Shinji IIZUKA, Shintarou URABE
*Hitachi East Japan Solutions, Ltd.***T5-4.4****Web-Based on Mobile Phone for Automatic Classification of Power Quality Disturbance Using the S-Transform and Support Vector Machines** ~% &%Alex WENDA, A. HUSSAIN, S. A. SAMAD,
R. MOHAMED, M A HANNAN
Universiti Kebangsaan

12:10-12:30

T4-9: Internet & Application (1)

Room 404

November 24, 2010

Chair: Takeshi IKENAGA (*Kyushu Institute of Technology*)**T4-9.1****Distributed Storage VOD System Using XDMS: Implementation and Performance Evaluation** ~% &%Yoshihiro NOMOTO, *Tomonori KUZUKAWA,
*Yutaka ISHIBASHI
*NTT Corporation, *Nagoya Institute of Technology***T4-9.2****The Effect of Audio-Video Quality on Learning Effectiveness in Distance Learning over IP Networks** ~% ,Kazuyoshi FUKAYA, *Koichiro NODA,
*Shuji TASAKA, *Toshiro NUNOME
*Sugiyama Jogakuen University,
*Nagoya Institute of Technology***T4-9.3****The Effects of Camera Arrangements and Contents on QoE in Multi-View Video and Audio IP Transmission** ~% ((Makoto YAMAMOTO, Toshiro NUNOME,
Shuji TASAKA
*Nagoya Institute of Technology***T4-9.4****Implementation of TinyOS on FPGA System** ~% \$Dai-Hai TON-THAT, Anh-Vu DINH-DUC,
Khoi PHAN-DINH
Univresity of Technology

10:00-10:20

T4-10: Internet & Application (2)

Room 404

November 24, 2010

Chair: Toshiro NUNOME (*Nagoya Institute of Technology*)**T4-10.1****An Effective Simple Method to Reduce Bandwidth Usage Over an Access Link in IPTV Multicast Delivery Services** ~% (Masao IKEZAKI, Takeshige SUGAHARA,
Masayoshi SHIMAMURA, Takeshi IKENAGA
Kyushu Institute of Technology

11:10-11:30

An Advanced Ship Guidance System Using Grid Mapping Technique ~% * \$C. K. DAS, N. K. DAS, Mahabub HASSAN,
*S. K. BISWAS, **M. Mofazzal HOSSAIN
*Chittagong University of Engineering and Technology, *Premier University,
**East West University*

11:30-11:50

T4-10.3	11:50-12:10	
Performance Evaluation of a Request Cluster Allocation Scheme for Multi-Channel DOCSIS ^{**}		
Tomoya SAITO, *Shinsuke SATAKE, **Hiroshi INAI Shimane University, *OkayamaDengyo Inc., **Okayama Prefectural University		
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T9-4: Biomedical Engineering (IV)		
Room 403	November 24, 2010	
Chair: Yoshinori KATAYAMA (Kyushu University)		
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T9-4.1	09:00-09:20	
Spectroscopic Imaging of Oxygen Saturation Level in Retinal Capillary Vessels Area ⁺		
K. TATSUGUCHI, S. SIBASATO, D. NAKAMURA, T. OKADA, Y. YOSHINAGA, *H. ENAIDA, T. ISHBASHI Kyushu University, *Kyushu Medical Center		
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T9-4.2	09:20-09:40	
Kepler-Based Collaborative Workflow System for Metabolic Syndrome Estimation ⁺⁺		
Chan-Hyun YOUN, Dong Hyun KIM, *Eun Bo SHIM, **Yeon Shik CHOI, **Hyo-Derk PARK, ***Soo LIM, ***Hak Chul JANG, ****Hong Kyu LEE Korea Advanced Institute of Science and Technology, *Kangwon National University, **Korea Electronic Technology Institute (KETI), ***Seoul National University, ****Eulji University		
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T9-4.3	09:40-10:00	
Radio Frequency Plasma Enhanced Synthesis of Antifouling Polymeric Coatings from Monoterpene Alcohols ^{+\$}		
Kateryna BAZAKA, Mohan V. JACOB, *Elena P. IVANOVA, *Vi Khanh TRUONG James Cook University, *Swinburne University of Technology		
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T9-4.4	10:00-10:20	
Optimal Design and Control of a Thumb Exoskeleton ^{+\$}		
M. F. ORLANDO, H. AKOLKAR, A. DUTTA, A. SAXENA, L. BEHERA IIT Kanpur		
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T9-4.5	10:20-10:40	
Motions Obtaining of Multi-Degree-Freedom Underwater Robot by Using Reinforcement Learning Algorithms ^{-\$}		
Youkun HAN, Hajime KIMURA Kyushu University		
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T8-5: RF Circuit Design		
Room 402	November 24, 2010	
Chair: Toshihiko YOSHIMASU (Waseda University)		
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T8-5.1	09:00-09:20	
Design and Implementation of Passive RF-DC Converters for RF Power Harvesting Systems ⁺⁻		
Sherlyn dela CRUZ, Mark Gerard delos REYES, Anastacia ALVAREZ, Maria Theresa de LEON, Christian Raymund ROQUE University of the Philippines		
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T8-5.2	09:20-09:40	
High Linearity 5.2 GHz CMOS Up-Conversion Mixer Using Derivative Superposition Method ^{\$}		
S.A.Z MURAD, R.K POKHAREL, M.A. ABDELGHANY, H. KANAYA, K. YOSHIDA, *S.A.Z MURAD Kyushu University, *Universiti Malaysia Perlis		
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T8-5.3	09:40-10:00	
Design of High-Throughput MIMO Detectors Using Sort-Free and Early-Pruned Techniques ^{\$+}		
Jing-Shiun LIN, Shih-Hao FANG, Yi-Hsuan JEN, Ming-Der SHIEH National Cheng-Kung University		
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T8-5.4	10:00-10:20	
A Low Power Low Flicker Noise Merged Balun LNA and Mixer for 5.2GHz Wireless LAN Receivers ^{+\$}		
A. I. A. GALAL, M. A. ABDELGHANY, R. K. POKHAREL, H. KANAYA, K. YOSHIDA Kyushu University		
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T8-5.5	10:20-10:40	
A 1 GHz CMOS Analog Equalizer for Perpendicular Magnetic Recording ^{+\$}		
Sukarasut MEKSIRI, Kasin VICHENCHOM, *Decha WILAIRAT King Mongkut's Institute of Technology Ladkrabang, *Mahidol University		
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T8-6: LSI CAD		
Room 402	November 24, 2010	
Chairs: Yasuhiro TAKASHIMA (Univ. of Kitakyushu) and Chen SONG (Waseda University)		
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T8-6.1	11:10-11:30	
An Efficient Hardware Routing Algorithms for NoC ^{+\$}		
Yiping DONG, Zhen LIN, Takahiro WATANABE Waseda University		
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T8-6.2	11:30-11:50	
Efficient Partitioning of Parameterized 45-Degree Polygons with Mixed ILP ^{+\$}		
I-Lun TSENG, Che-I LEE, Huan-Wen CHEN Yuan Ze University		
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T8-6.3	11:50-12:10	
Path-Based Cell Flipping Optimization for Wirelength Reduction and Routability ^{+\$}		
Ying-An SHIH, *Tu-Hsiung TSAI, *Hung-Ming CHEN RDC Semiconductor Co., Ltd., *National Chiao Tung University		
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WIE-6: Computing Architectures and Systems, and CAS		
Room 412	November 24, 2010	
Chair: Taeko MATSUNAGA (Waseda University, Japan)		
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WIE-6.1	09:00-09:20	
Survey of MPI Implementations Delimited by Java ^{'()}		
Mehnaz HAFFEZZ, Naveed RIAZ, *Sajjad ASGHAR, *Usman A. MALIK, *Adeel-ur- REHMAN Shaheed Zulfikar Ali Bhutto Institute of Science and Technology, *National Centre for Physics		
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WIE-6.2	09:20-09:40	
Analysis of Pulsed Laser Diode Driver System for Multistate Quantum Key Distribution ^{'-'}		
M.S ABDULLAH, M.Z. JAMALUDIN, *G. WITJAKSONO, *M.H.H MOKHTAR Universiti Tenaga Nasional (UNITEN), *MIMOS Berhad		
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WIE-6.3	09:40-10:00	
An Improved Integrated Lossless Self-Matched Current-Sensing Circuit Based on Gm-C Filter for 4-Switch Buck-Boost Topology ^{'(&'}		
Lou JIANA, Wu XIOBO Zhejiang University		

WIE-6.4 10:00-10:20
Optimization of Circuit Partitioning in VLSI through
Classification Algorithms ``%(),
K.A. SUMITHRADEVI, M.N. VIJAYALAKSHMI
R.V.College of Engineering

WIE-7: Biomedical Engineering and Others	
Room 412	November 24, 2010
<i>Chairs: Basabi CHAKRABORTY (Iwate Prefectural University, Japan) and Takako HASHIMOTO (Chiba University of Commerce, Japan)</i>	
WIE-7.1 11:10-11:30 Multi-Step QBE Approach for Querying Electronic Health Records System ``%() &	
Shelly SACHDEVA, Subhash BHALLA <i>University of Aizu</i>	
WIE-7.2 11:30-11:50 Development of an Intelligent System for Control of Blood Glucose Level in Critically Ill Patients ``%),	
J. Samson ISAAC, *K. PORKUMARAN <i>Anna University, *Dr.N.G.P Institute of Technology</i>	
WIE-7.3 11:50-12:10 Hardening Fingerprint Fuzzy Vault Using Cancelable Template with Password ``%* &	
Nianlong XU, Ying YANG, Keiichi KOYANAGI <i>Waseda University</i>	
WIE-7.4 12:10-12:30 Wireless Automatic Saline Low Control System ``%*,	
Vasudha S. CHATTANNAVAR, Vidyalaxmi L DANI <i>Basavaeshwar Engineering College</i>	

Poster Presentation

- 15:10-16:10**
Monday, November 22, 2010
- T5-1.P1**
Modular Autonomous Robotics Platform for Educational Use ``%+
James LUMSDEN, Cesar ORTEGA-SANCHEZ
Curtin University
- T5-2.P1**
Simulation Platform for the Evaluation of Robotic Swarm Algorithms ``%++
Michael HAMER, Cesar ORTEGA-SANCHEZ
Curtin University
- T5-3.P1**
Image Registration Using B-Splines for Contralateral Subtraction of Chest Radiographs ``%, '
Tsuyoshi KAWAGUCHI, Ryoichi NAGATA,
Yoshitomi HARADA, Hideyoshi MIYAKE
Oita University
- T5-4.P1**
A Neural Network Based Human Identification Framework Using Ear Images ``%, -
Maen ALARAJ, *Jingyu HOU, Tadanori FUKAMI
*Yamagata University, *Deakin University*
- T5-5.P1**
Migration Effects on Tree Topology of Parallel Evolutionary Computation ``% -)
Hayato MIYAGI, *Takeshi TENGAN,
Said MOHAMED, Morikazu NAKAMURA
*University of the Ryukyus, *Meio University*
- T5-6.P1**
Document Layout Analysis and Reading Order Determination for a Reading Robot ``%\$%
Yucun PAN, Qunfei ZHAO, *Seiichiro KAMATA
*Shanghai Jiao Tong University, *Waseda University*
- T5-7.P1**
3D Reconstruction from a Single Image for a Chinese Talking Face ``%\$+\$
Ning LIU, Ning FANG, *Seiichiro KAMATA
*Shanghai Jiao Tong University, *Waseda University*
- T5-8.P1**
Introduction of SVM into Personal Authentication Using Intra-Body Propagation Signals ``%/%
Yuuta SODANI, Isao NAKANISHI
Tottori University
- T10-1.P1**
Measurements of Mode Field Diameter and Effective Area for Photonic Crystal Fibers by Far Field Scanning Technique ``%/%
Kazuya MIYAGI, Yoshinori NAMIHIRA
University of the Ryukyus
- T10-2.P1**
Spatial Arrangement of Speckle-Multiplexed Holograms Using Directional Control of Shift Selectivity with Holographic Diffuser ``% %
Shuji TAKAHASHI, Masatoshi BUNSEN,
Hirosuke FURUTA, *Atsushi OKAMOTO
*Fukuoka University, *Hokkaido University*

T10-3.P1 A Bifurcated Fractal Rectangular Curve Dielectric Resonator Antenna for Body Area Network and IEEE 802.11a Application'	T6-1.P1 On the Design and Analysis of Quaternary Serial and Parallel Adders ''%,)
Rowdra GHATAK, *Dipali SOREN, AF GH **Swapan GHOSAL, ***R K MISHRA, ****D R PODDAR <i>National Institute of Technology Durgapur, *M.P.C C of Engineering & Technology, **Bengal Institute of Technology, ***Berhampur University, ****Jadavpur University</i>	Anindya DAS, Ifat JAHANGIR, Masud HASAN, *Shahera HOSSAIN <i>Bangladesh University of Engineering and Technology, *Kyushu Institute of Technology</i>
T10-4.P1 Calculation of Characteristic Impedance of Transmission Lines with Substrate Integrated Artificial Dielectric Structures'%' & Jongsik LIM, Jun LEE, Jaehoon LEE, *Yongchae JEONG, Sang-Min HAN, Kwan-Sun CHOI, Dal AHN <i>SoonChunHyang Univiversity, *Chonbuk National University</i>	T6-2.P1 High-Level Implementation of the 5-Stage Pipelined ARM9TDM Core'%' - \$ Christiensen C. ARANDILLA, Joseph Bernard A. CONSTANTINO, Alvin Oliver M. GLOVA, Anastacia P. BALLESIL-ALVAREZ, Joy Alinda P. REYES <i>University of the Philippines</i>
T3-1.P1 Extensive Pixel-Based Fast Direction Detection Algorithm for H.264/AVC Intra Mode Decision'%' \$ Chen-Hsien MIAO, Chih-Peng FAN <i>National Chung Hsing University</i>	T6-3.P1 Simulation of Large-Scale Dynamic Programming Networks on 3D Implementation Platform'%' -) K.P. LAM, *Terrence S.T. MAK, **C.-S. POON <i>The Chinese University of Hong Kong, *Imperial College, **MIT, Cambridge</i>
T3-2.P1 Window Mode Filter for Image Denoising'%') Chang JIAN, Kiichi URAHAMA <i>Kyushu University</i>	T9-1.P1 Independent Component Analysis Hard-IP Integration System on Programmable Chip (SOPC) Platform'%' -- Shao-Hang HUNG, Chih-Feng CHAO, Yu-Chun YAN, Bor-Shyh LIN, Chin-Teng LIN <i>National Chiao Tung University</i>
T3-3.P1 Optimal Feature Selection for SVM Based Weed Classification via Visual Analysis'%' (%) S. SHAHBUDIN, A. HUSSAIN, S. A. SAMAD, M. M. MUSTAFA, A.J. ISHAK <i>Universiti Kebangssan</i>	T9-2.P1 Performance Optimized of the Novel Dry EEG Electrodes by using the Non-Dominated Sorting Genetic Algorithms (NSGA-II)'%' /\$) Ming-Feng HAN, Lun-De LIAO, Yu-Hang LIU, Wan-Ru WANG, Bor-Shyh LIN, Chin-Teng LIN <i>National Chiao Tung University</i>
T3-4.P1 Cartesian Resizing of Image and Video for Data Compression'%' () Tao WANG, Kiichi URAHAMA <i>Kyushu University</i>	T9-3.P1 Methods for Performing Video Quality Evaluations in the Field of Medicine'%' %\$ Isao NAKAJIMA, Kaoru NAKADA, Yasumitsu TOMIOKA, Hiroshi JUZOJI, Toshihiko KITANO <i>Tokai University</i>
T3-5.P1 Local MAP Estimation for Quality Improvement of Compressed Color Images'%')% Hideki NODA, Shun HARAGUCHI, Michiharu NIIMI <i>Kyushu Institute of Technology</i>	T9-4.P1 The 920 Fire Departments Expect Reliable Wideband Circuit to Support Telemedicine'%' /%
Hiroki MURAYAMA, Keiichi YAMADA <i>Meijo University</i>	Yasumitsu TOMIOKA, Sadaki INOKUCHI, Hiroshi JUZOJI, Isao NAKAJIMA <i>Tokai University</i>
T3-7.P1 Image and Video Clipping by Weighted Histogram Intersection Minimization'%' * & Kohei INOUE, Kenji HARA, Kiichi URAHAMA <i>Kyushu University</i>	T9-5.P1 CT Image-Based Training System for Positioning in Radiography'%' /%
T3-8.P1 Image Resizing by Row/Column Removal and Addition Based on Hierarchical Clustering'%' * + Kohei INOUE, Kenji HARA, Kiichi URAHAMA <i>Kyushu University</i>	Toshinori MARUYAMA, *Hideki YAMAMOTO <i>Okayama University, *Kibikogen Rehabilitation Center for Employment Injuries</i>
T3-9.P1 Denoising X-Ray CT Images Based on Product Gaussian Mixture Distribution Models for Original and Noise Images'%' +' Motohiro TABUCHI, *Nobumoto YAMANE <i>Konko Hospital, *Okayama University</i>	T9-6.P1 Adaptive Bilateral Filtering for Despeckling of Medical Ultrasound Images'%' /&& E. FARZANA, M. TANZID, K. M. MOHSIN, M. I. H. BHUIYAN, *Shahera HOSSAIN <i>Bangladesh University of Engineering and Technology, *Kyushu Institute of Technology</i>
T3-10.P1 Development of Color Models to Improve the Data Capacity of Color Two Dimensional Barcode'%' + Hiroko KATO <i>Edith Cowan University</i>	T9-7.P1 Blood Glucose Level Prediction Using Intelligent Based Modeling Techniques'%' /& A. M. AIBINU, M. J. E. SALAMI, A. A. SHAFIE <i>International Islamic University Malaysia (IIUM)</i>

- T9-8.P1**
Reduction of Baseline Fluctuation in Electrocardiogram Measurement for a Car Driver
 Yuta KONDO, Ken SASAKI, *Yasuhiko NAKANO,
 *Satoshi SANO, *Hideki TOMIMORI
*The University of Tokyo, *Fujitsu Laboratories Ltd.*
- T9-9.P1**
A Basic Study on the Quadrant Detector to Pursue a Noise-Level Beacon of a Wild Bird
 I. NAKAJIMA, H. JUZOJI, *M. KATAYAMA
*Tokai University, *Nagoya University*
- T9-10.P1**
Development of a Bidirectional Data Communication System Using Ultra High Frequency Radio Wave for Implantable Artificial Hearts
 Shinichi TSUJIMURA, Hiroto YAMAGISHI,
 Yoshiyuki SANKAI
University of Tsukuba
- T9-11.P1**
Visualization of Information Flows in a Brain Stemming from Alpha Waves - Using Multidimensional Directed Information
 Osamu SAKATA, Yutaka SUZUKI
University of Yamanashi
- T9-12.P1**
The Effect of TMS to Supramarginal Gyrus on Event-Related Potential P300
 A. MATSUNAGA, K. NOJIMA, M. IWASHI, Y. KATAYAMA, K. IRAMINA
Kyushu University
- T9-13.P1**
Noncontact Respiration Measurement under Pedaling Motion with Upright Bicycle Ergometer Using Dot-Matrix Pattern Light Projection
 Hiroaki AOKI, Masamichi SAKAGUCHI, Hideo FUJIMOTO, *Keishi TSUZUKI, *Hidetoshi NAKAMURA
*Nagoya Institute of Technology, *Keio University*
- T1-1.P1**
Distribution Feeder Bus Load Estimations by Measurement Matching
 Shi-Jaw CHEN, Rung-Fang CHANG, *Huang-Ren LAI, **Chan-Nan LU
*Kao Yuan University, Institute for Information Industry, **National Sun Yet-sen University*
- T1-2.P1**
Power Dissipation at MOSFET Gate Port of Class D RF Power Amplifier
 Takuya KUDO, Toru UMEKI, Akito KIRI, Tadashi SUETSUGU
Fukuoka University
- T1-3.P1**
Simulation Analysis of Transient Behavior of RF Class D Power Amplifier Due to Fluctuation in Load Impedance
 Hiroki MURAKAMI, Yoshimichi YAMASHITA, Tadashi SUETSUGU
Fukuoka University
- T1-4.P1**
Consideration of Impact of GaN HEMT for Class E Amplifier
 Hiroyuki UCHIYAMA, Ryuta YAMAMOTO, Yusuke ISHIKAWA, Tadashi SUETSUGU
Fukuoka University
- T1-5.P1**
Gate Power Loss of Class E Amplifier with Rectangular Wave Gate Drive
 Takaaki TATSUTA, Yuki ISHITANI, Tadashi SUETSUGU
Fukuoka University
- T1-6.P1**
Influence of Multi-Frequency Coupling to Operation of Parallel Connected Class E Amplifiers
 Yasuhiro JITSU FUJI, Yasutaka YOSHIMATSU, Tadashi SUETSUGU
Fukuoka University
- T1-7.P1**
Effect of Third Harmonic Peaking in Gate Drive of Class E Amplifier
 Shoko YANO, Kouta SHUTOU, Tadashi SUETSUGU
Fukuoka University
- T1-8.P1**
Modified Particle Swarm Optimization for Solving Distribution Feeder Reconfiguration Problem with Distributed Generation
 Rung-Fang CHANG, Shi-Jaw CHEN, *Ya-Chin CHANG, **Chan-Nan LU
*Kao Yuan University, *Cheng Shiu University, **National Sun Yet-Sen University*
- T1-9.P1**
Ramping Particle Current Power Supply
 Chen-Yao LIU, *Yao-Ching HSIEH, **Chin-Sien MOO
*National Synchrotron Radiation Research Center, *National Dong Hwa University, **National Sun Yat-sen University*
- T1-10.P1**
Influence of Stator Winding Structure on the Relation between PD Value and Maximum Discharge Quantity in Deterioration Diagnosis of Hydro-Generators
 Osamu HATTORI, Takahiko YAMASHITA
Nagasaki University
- T1-11.P1**
Simulation Analysis of Transient Behavior of Class E Amplifier Due to Fluctuations in Load Impedance and DC Supply
 Yuichi TANAKA, Akito KIRI, Takeshi YAUKO UCHI, Tadashi SUETSUGU
Fukuoka University
- T1-12.P1**
Interleaved Sepic Converter with Low Switching Loss
 Bor-Ren LIN, Po-Li CHEN, Jyun-Ji CHEN
National Yunlin University of Science and Technology
- T1-13.P1**
Series Resonant Converter with Output Voltage Doubler
 Bor-Ren LIN, Li-An LIN, Yen-Ju CHIANG, Po-Li CHEN
National Yunlin University of Science and Technology
- T1-14.P1**
Parallel ZVS Converter with Series Connected Transformers
 Bor-Ren LIN, Huann-Keng CHIANG, Po-Li CHEN, Chih-Yuan CHENG
National Yunlin University of Science and Technology

- T1-15.P1**
Analysis and Implementation of a Novel Dual Resonant Converter &
 Bor-Ren LIN, Jian-Yao JHONG, Jyun-Ji CHEN,
 Huann-Keng CHIANG
National Yunlin University of Science and Technology
- T1-16.P1**
Efficiency Improvement of Converter for Switched Reluctance Motor Drives by Mixed Parallel Operation of IGBT and MOSFET)
 Sakhon WOOTHIPATANAPAN,
 Anuwat JANGWANITLERT,
 Phop CHANCHAROENSOOK
King Mongkut's Institute of Technology
- T1-17.P1**
A Technique of Collecting Online Data for Forecasting the Output Capacity of a Remotely Located WTG (%)
 Taif Hossain ROCKY, *Sumit Mazumder AMI, **Q AHSAN
*Innovative Renewable Energy, *Axiata Bangladesh Limited, **BRAC University*
- T1-18.P1**
Isolated Class-E Switching Converter with High-Frequency High-Efficiency Operation for Low-Voltage/High-Current Output Applications)
 Natsumi SAGAWA, Hiroo SEKIYA
Chiba University
- T1-19.P1**
Output Electric Power Increase of a DC-AC Converter Utilizing Magnetic Oscillation (%)
 Shinichi OKANUMA, Puskar KHATIWADA
Fukushima University
- T1-20.P1**
New Multilevel Inverter Topology with Minimum Number of Switches (%)*
 Rokan Ali AHMED, S. MEKHILEF, Hew Wooi PING
University of Malaya
- T2-1.P1**
Ferromagnetic Co_{3-x}Fe_xSi/Si(111) Contacts with High-Quality Heterointerfaces for Spin-Transistor Applications % * &
 Shinya YAMADA, Tatsuhiko MURAKAMI,
 Yuya MAEDA, Kohei HAMAYA, Masanobu MIYAO
Kyushu University
- T2-2.P1**
High-Quality Ferromagnetic CoFe/Si Contacts for Si Spin-Transistor Applications % **
 Yuya MAEDA, Shinya YAMADA,
 Tatsuhiko MURAKAMI, Kazutaka YAMANE,
 Kohei HAMAYA, Masanobu MIYAO
Kyushu University
- T2-3.P1**
Magnetic Ripple in Permalloy Narrow Wires Investigated by Lorentz Microscopy % *
 Kazuya TAKAYANAGI, Shigeo MORI,
 Yoshihiko TOGAWA
Osaka Prefecture University
- T2-4.P1**
Control of Vortex Chirality in Polygonal Nanomagnets % +&
 M. MIYATA, S. YAKATA, *M. HARA, H. WADA,
 T. KIMURA
*Kyushu University, *Kumamoto University*
- T2-5.P1**
Spin Transport Properties in Polycrystalline Gd Film and Strip % +)
 S. NONOGUCHI, Y. ANDO, *Y. TOGAWA,
 *T. KIMURA
*Kyushu University, *Osaka Prefecture University*
- T2-6.P1**
Magnetic Impurity Effect in Atomic Sized Conductor % +
 Koichiro IENAGA, Naoya NAKASHIMA,
 Yuji INAGAKI, Tatsuya KAWAE, *Hiroyuki TSUJII
*Kyushu University, *Kanazawa University*
- T2-7.P1**
Control of Nanosize Ferromagnetic Electrodes by Magnetostriction % , &
 Koichiro IENAGA, Naoya NAKASHIMA,
 Yuji INAGAKI, Tatsuya KAWAE, *Hiroyuki TSUJII
*Kyushu University, *Kanazawa University*
- T2-8.P1**
Mgnetoresistance in Ballistic Ni Nanocontact at 4.2K % ,)
 Koichiro IENAGA, Naoya NAKASHIMA,
 Yuji INAGAKI, Tatsuya KAWAE, *Hiroyuki TSUJII
*Kyushu University, *Kanazawa University*
- T2-9.P1**
Numerical Study on Inductive Detection of Magnetostatic Spin Wave Packet % , ,
 Yusuke NAKASHIMA, Keita NAGAI,
 Terumitsu TANAKA, Kimihide MATSUYAMA,
 *Yukio NOZAKI
*Kyushu University, *Keio University*
- T2-10.P1**
Dependence of Magnetization Switching Property with Microwave Assistance on Anisotropy Field for ECC Nano-Pillar % - &
 Naoyuki NARITA, Terumitsu TANAKA,
 Ayumu KATO, Kimihide MATSUYAMA,
 *Yukio NOZAKI
*Kyushu University, *Keio University*
- T2-11.P1**
Micromagnetism of Patterned Ferromagnetic Thin Films with Four-Fold Anisotropy % - *
 M. HIGUCHI, Y. KOMAKI, K. NODA, T. TANAKA,
 K. MATSUYAMA
Kyushu University
- T2-12.P1**
Sub-Wavelength Micromachining of Silica Glass by Irradiation of Infrared Laser with Fresnel Diffraction % --
 K. OKAZAKI, D. NAKAMURA, T. OKADA,
 *S. TORII, *T. MAKIMURA, *K. MURAKAMI,
 **H. NIINO, A. TAKAHASHI
*Kyushu University, *University of Tsukuba,
 **National Institute of AIST*
- T2-13.P1**
Annealing and Texturing of a-Si Film Using Nd³⁺:YAG Laser with Gaussian and Flat-Top Beam Profiles % \$
 I.A. PALANI, G. RAJIV, N.J. VASA,
 M. SINGAPERUMAL
Indian Institute of Technology Madras
- T2-14.P1**
Optical Characterization of a Chalcogenide Glass Nanophotonic Device % \$-
 Dihan Md. Nuruddin HASAN,
 Muhammad Nazmul HOSSAIN, K.M. MOHSIN,
 M. Shah ALAM
Bangladesh University of Engineering and Technology
- T2-15.P1**
Scalability and RF Performance of Nanoscale Dopant Segregated Schottky Barrier SOI MOSFET % %
 Ganesh C. PATIL, S. QURESHI
Indian Institute of Technology Kanpur

- T2-16.P1**
Ballistic Current-Voltage Model in Depletion All Around Operation of the SOI Four-Gate Transistor % &%
 Shafat JAHANGIR, Ifat JAHANGIR,
 Quazi D. M. KHOSRU, *Shahera HOSSAIN
*Bangladesh University of Engineering and Technology, *Kyushu Institute of Technology*
- T2-17.P1**
A Novel Approach of Modeling Channel Potential for Gate All Around Nanowire Transistor % &%
 Gaffar MD., Mushfiqul ALAM,
 Sayed Ashraf MAMUN, Mohammad Asif ZAMAN,
 *Anwarul Kabir BHUIYA
*Bangladesh University of Engineering and Technology, *Kyushu University*
- T2-18.P1**
FTIR Study of Methylene Blue Plasma Degradation Products through Plasma Treatment on Water % &%
 Tatsuru SHIRAFUJI, Junko HIEDA, Osamu TAKAI,
 Nagahiro SAITO, *Tadasuke MORITA,
 *Osamu SAKAI, **Kunihide TACHIBANA
*Nagoya University, *Kyoto University,
 **Ehime University*
- T2-19.P1**
Effects of Amplitude Modulation of rf Discharge Voltage on Growth of Nano-Particles in Reactive Plasmas % +
 Kunihiro KAMATAKI, Hiroshi MIYATA,
 Kazunori KOGA, Giichiro UCHIDA, Naho ITAGAKI,
 Daisuke YAMASHITA, Hidefumi MATSUZAKI,
 Masaharu SHIRATANI
Kyushu University
- T2-20.P1**
Infrared Spectroscopic Study on Hydrogen Plasma Induced Surface Reaction % - &
 Masanori SHINOHARA, Taka-aki KAWAKAMI,
 Kojiro HARA, Hiroshi FUJIYAMA,
 Yoshinobu MATSUDA
Nagasaki University
- T2-21.P1**
Design and Analysis of a Cantilever Biosensor Based on a Boron Nitride Nanotube % ()
 M.S. ISLAM, A.Z. KOUZANI, X.J. DAI,
 *W.P. MICHALSKI
*Deakin University, *CSIRO Livestock Industries*
- T2-22.P1**
Redox Characteristics of Amino Acids Using Low Pressure Water Vapor RF Plasma %) %
 Yusuke AKIYOSHI, Akari NAKAHIGASHI,
 Nobuya HAYASHI, *Satoshi KITAZAKI,
 *Takuro IWAO, *Kazunori KOGA,
 *Masaharu SHIRATANI
*Saga University, *Kyushu University*
- T2-23.P1**
Growth Stimulation of Radish Sprouts Using Discharge Plasmas % ()
 Satoshi KITAZAKI, Daisuke YAMASHITA,
 Hidefumi MATSUZAKI, Giichirou UCHIDA,
 Kazunori KOGA, Masaharu SHIRATANI,
 *Nobuya HAYASHI
*Kyushu University, *Saga University*
- T4-1.P1**
An Integrated Ant Colony Optimization Based Synchronization Scheme for Wireless Sensor Networks % ,
 Liang-Teh LEE, Ching-Wei CHEN
Tatung University
- T4-2.P1**
Study of SVC Traffic Multicast over WiMAX Network % * (I-Hsuan PENG, *Yen-Wen CHEN, *Chia-Han LEE,
 *Chang-Wu CHEN
Minghsin University of Science and Technology,
**National Central University*
- T4-3.P1**
Joint Base Station Selection and Linear Precoding for Cellular Networks with Multi-Cell Processing % +\$
 Yong ZENG, Erry GUNAWAN, Yong Liang GUAN,
 Jin LIU
Nanyang Technological University
- T4-4.P1**
A Multiple Ballots Election Scheme Using Anonymous Distribution % +*
 Manabu OKAMOTO
Kanagawa Institute of Technology
- T4-5.P1**
A Four-Way-Polling QoS Scheduler for IEEE 802.11e HCCA % , \$
 Jeng-Ji HUANG, Yeh-Horng CHEN,
 *David SHIUNG
*National Taiwan Normal University,
 National Changhua University of Education
- T4-6.P1**
Adaptive Minimum Filter that Achieves Precise Time Synchronization on IP Networks % , *
 Satoru OHTA, *Kan TOYOSHIMA,
 *Hitoshi UEMATSU, *Kenji HISADOME,
 *Mitsuhiko TESHIMA
*Toyama Prefectural University, *NTT Corporation*
- T4-7.P1**
Maximum Capability System Design of Optical Access Network % - &
 Tatsuya KOSAKA, Koji KIKUSHIMA
University of Toyama
- T4-8.P1**
A Novel Method for Enhanced Precision Approach % -)
 Peng ZHANG, Liang QIAN, Feng YANG
Shanghai Jiaotong University
- T4-9.P1**
Comparative Analysis of the Polarization Properties between a Conventional Side-Hole Fiber and a Novel Design of Elliptical Core Fiber % \$\$\$
 Shama Naz ISLAM, Arunodoy SAHA,
 M. Shah ALAM, Shamima NAJNIN
Bangladesh University of Engineering and Technology
- T4-10.P1**
Performance Analysis of CSMA/CA Algorithm for Wireless Sensor Network % \$\$*
 Saeed Ur REHMAN, Stevan BERBER,
 Akshya SWAIN
University of Auckland
- T4-11.P1**
Design, Development, and Evaluation of a Simple Wireless Sensor Network for Indoor Microclimate Monitoring % &% &
 I.M. TOLENTINO, R.S. JUSON, B.U. TAN,
 M.R. TALAMPAS
University of the Philippines
- T4-12.P1**
Person Wide Web: Active Location Based Web Service Architecture Using Wireless Infrastructure % &%
 Seungjae SHIN, Pyung KIM, Yeojeong YOON,
 *Seongbea EUN, Hyunsoo YOON
*Korea Advanced Institute of Science and Technology, *Hannam University*

T4-13.P1 A Rearrangement Algorithm for Scheduled Automatic Power Save Delivery of Wireless LANs ^{**&}	T3-5.P2 Measurement of QT Interval Prolongation: a Comparative Evaluation of Six Algorithms Using Simulated Electrocardiograms ^{**+}
Tsern-Huei LEE, Jing-Rong HSIEH, Hsiao-Wei CHEN <i>National Chiao Tung University</i>	Xiaolin ZHOU, Xin ZHU, Hui WANG, Daming WEI <i>The University of Aizu</i>
10:20-11:20 Tuesday, November 23, 2010	
T10-1.P2 Inverse Filtering Operation for Reconstruction of Distorted GPR Response ^{**\$} Masahiko NISHIMOTO, Kousuke TOMURA <i>Kumamoto University</i>	T3-6.P2 Modeling and Simulation of Space-Time Reverberation for Active Sonar Array ^{**++} Jian-guo HUANG, Xiao-dong CUI, Ru-hang WANG <i>Northwestern Polytechnical University</i>
T10-2.P2 Detailed High Frequency Transmission Characteristics of Human Body for Body Area Network ^{**()} Tomohito TAKAHASHI, Katushi IWASHITA <i>Kochi University of Technology</i>	T3-7.P2 Fast Parallel Processing Using GPU in Computing L1-PCA Bases ^{**%,} Nobuhiro FUNATSU, Yoshimitsu KUROKI <i>Kurume National College of Technology</i>
T10-3.P2 3-10GHz CMOS Distributed Amplifier Low-Power and Low-Noise and High-Gain Low Noise Amplifier for UWB Systems I-Chuan CHEN, Jeng-Rern YANG <i>Yuan Ze University</i>	T3-8.P2 A Novel Alamouti-Coded Decode-and-Forward Protocol for Cooperative Communications ^{**,} Wanakorn SWASDIO, Chaiyod PIRAK <i>King Mongkut's University of Technology</i>
T10-4.P2 Dielectric Resonator Bandpass Filter for X-Band Application ^{**(&} M. F. AIN, Z. A. AHMAD, M.A. OTHMAN, I. A. ZUBIR, S. D. HUTAGALUNG, *A. A. SULAIMAN, *A. OTHMAN USM, *UiTM	T1-1.P2 Hardware Design of Fuzzy Controller for Biomass Downdraft Gasifier with LabVIEW ^{**-\$} A. Sanjeevi GANDHI, T. KANNADASAN, *R. SURESH <i>Anna University Coimbatore,</i> <i>*Visvesvaraya Tech University</i>
T10-5.P2 Low Loss Analog Phase Shifters Based on BST Thin Film Ferroelectric Material on a Coplanar Waveguide ^{**(+} B. NATARAJ, *K. PORKUMARAN <i>Sri Ramakrishna Engineering College,</i> <i>*Dr. NGP Institute of Technology</i>	T1-2.P2 Facility-Level DC vs. Typical AC Distribution for Data Centers - A Comparative Reliability Study ^{**-} V. SITHIMOLADA, P. W. SAUER <i>University of Illinois at Urbana-Champaign</i>
T3-1.P2 An Improved Minimum Word Error Approach to Lattice Rescoring and System Combination ^{**&} Haihua XU, Jie ZHU, Xulei BAO <i>Shanghai Jiao Tong University</i>	T1-3.P2 Development of a New Chemical Synthesis Method with Pulsed Discharge Plasma in Sub- and Supercritical Fluids ^{**&&} Mitsuru SASAKI, Wahyu DIONO, Tsuyoshi KIYAN, Hidenori AKIYAMA, Motonobu GOTO, *Yousuke SUGA, *Toshiyuki WATANABE <i>Kumamoto University,</i> <i>*Tokyo University of Agriculture and Technology</i>
T3-2.P2 Efficient Mode Decision for H.264/AVC Frame-Skipping Transcoding ^{***} Jhong-Hau JIANG, Yinyi LIN <i>National Central University</i>	T1-4.P2 Correlation between Electric Demand and Floor Area of the Residential Consumers ^{**+} Nahid-Al- MASOOD, Shohana Rahman DEEBA, Muhammad Abdullah ARAFAT, *Radwan H. SIDDIQUE, *Apurba SAHA, *Rumana RAHMAN <i>Bangladesh University of Engineering and Technology,</i> <i>*BRAC University</i>
T3-3.P2 Evaluation Method for Quality Losses Generated by Miscellaneous Audio Signal Processings Using MIDI Encoder Tool "Auto-F" ^{**\$} Toshio MODEGI <i>Dai Nippon Printing Co., Ltd.</i>	T1-5.P2 Effect of Divided Electrode of Screw-Type Ozonizer for Ozone Generation and Basic Study of Ozone Sterilization Effect against Bacteria in Soil ^{**%} Bunpei UEDA, Tomoyuki FUJISHIMA, Takahiko YAMASHITA <i>Nagasaki University</i>
T3-4.P2 Pre-Processing Scheme to Effectively Compensate Environment and Equipment Factors for Sound Source Separation ^{***} Yi-Hsiang CHENG, Chun-Hung CHIU, Oscal T.-C. CHEN, *Wen-Chih WU <i>National Chung Cheng University,</i> <i>*WuFeng University</i>	T1-6.P2 Study of Charge and Recharge Characteristics of LiFePO ₄ Battery and Lead-Acid Battery ^{**%} Chih-Chiang HUA, Zong-Wei SYUE <i>National Yunlin University of Science & Technology</i>

- T1-7.P2**
A Solution of Preventive Control by Means of Transient Stability Constrained OPF  
- Lukmanul HAKIM, *Junji KUBOKAWA,
 Yue YUAN, *Rony Seto WIBOWO,
 ***Tomohiro TAKAYAMA, ***Naoto YORINO,
 ***Yoshifumi ZOKA, ***Yutaka SASAKI,
 ****Yusra SABRI
Universitas Lampung,
**Hiroshima Institute of Technology,*
***Hohai University, ***Hiroshima University,*
*****Institut Teknologi Bandung*
- T1-8.P2**
Effects of TiO₂ Blocking Layer Formation by Sol-Gel Method on Conversion Efficiency of Dye-Sensitized Solar Cell  
- Chi-Hwan HAN, Tae-Yeon CHO, Sang-Hoon BAE,
 *Youl-Moon SUNG, *Min-Woo PARK
Korea Institute of Energy Research,
**Kyungsung University*
- T1-9.P2**
A Study of Digital Filter for Rotor Speed Detection with Slot Harmonic Current for Induction Motor  
- Kichiro YAMAMOTO, Kenichi IIMORI,
 Hiroshi MORITA
Kagoshima University
- T1-10.P2**
Single-Switch Dual-Source Tri-Port DC-to-DC Converter  
- Kong-Soon NG, Tsung-Hsi WU, Wen-Ching YANG,
 Chin-Sien MOO
National Sun Yat-Sen University
- T1-11.P2**
Fault Detection Using ANN for Three-Level NPC Inverter Fed Induction Motor Drive  
- Hong Hee LEE, *Phan Quoc DZUNG,
 *Truong Phuoc HOA, *Le Minh PHUONG,
 *Nguyen Xuan BAC
University of Ulsan,
**HCMC University of Technology*
- T1-12.P2**
New Direct Torque Control of DFIG under Balanced and Unbalanced Grid Voltage  
- B. B. PIMPLE, V. Y. VEKHANDE,
 B. G. FERNANDES
Indian Institute of Technology Bombay
- T1-13.P2**
Fast Response Digital PID Control Circuit for DC-DC Converter  
- Fujio KUROKAWA, Yuki MAEDA,
 Yuichiro SHIBATA, Hidenori MARUTA,
 *Tsukasa TAKAHASHI, *Kouta BANSHO,
 *Toru TANAKA, *Keiichi HIROSE
*Nagasaki University, *NTT Facilities, Inc.*
- T1-14.P2**
Analysis and Design of a Phase-Shifted Full-Bridge Series-Resonant DC-DC Converter  
- Yu-Kang LO, Chung-Yi LIN, Chien-Yu LIN,
 Chao-Fu WANG
National Taiwan University of Science and Technology
- T1-15.P2**
Discrimination of Moving Status for Logistic Tracking Systems Using Mahalanobis Distance of Acceleration Record  
- Satoshi KAWASAKI, Hiroshi YOSHIDA,
 Hiroshi HOSAKA, *Yasuhiro KAWAHARA
*The University of Tokyo, *Kobe University*
- T1-16.P2**
A Digitally Wireless Dimmable Lighting System for Two-Area Fluorescent Lamps  
- Chun-An CHENG, Hung-Liang CHENG,
 Kun-Jheng LIN, Kuan-Lin CHU, Chun-Hsien YEN
I-Shou University
- T1-17.P2**
The New Maximum Power Point Tracking Algorithm Using ANN-Based Solar PV Systems  
- Hong Hee LEE, *Phan Quoc DZUNG,
 *Le Dinh KHOA, *Le Minh PHUONG,
 *Nguyen Truong DAN VU
University of Ulsan,
**HCMC University of Technology*
- T1-18.P2**
Development of Power Supply System for Aircraft Warning Lights  
- K. ADACHI, H. FUJITA, S. TANIGUCHI,
 T. NOGUCHI
Kyushu Electric Power Co., Inc.
- T1-19.P2**
Verification of a Microgrid System in a Small Isolated Island  
- T. NOGUCHI, K. TAKANO, T. IMASYOSHI,
 K. ISHIDA, Y. SHIMOGAWA, T. YAMADA,
 H. HAYASHI, T. MOUNAI, T. KOJIMA
Kyushu Electric Power Co., Inc, Ltd.
- T2-1.P2**
High-Frequency Signal Transmission Characteristics of Coplanar Waveguides with Cone Bump Interconnections  
- A. IKEDA, K. KAJIWARA, N. WATANABE,
 T. ASANO
Kyushu University
- T2-2.P2**
Low-Temperature ($\leq 250^{\circ}\text{C}$) Crystallization of Si on Insulating Substrate by Gold-Induced Layer-Exchange Technique  
- Jong-Hyeok PARK, Masashi KUROSAWA,
 Naoyuki KAWABATA, Masanobu MIYAO,
 Taizoh SADOH
Kyushu University
- T2-3.P2**
Effects of Ar Addition on Breakdown Voltage in a $\text{Si}(\text{CH}_3)_2(\text{OCH}_3)_2$ RF Discharge  
- Giichiro UCHIDA, *Shota NUNOMUTRA,
 Hiroshi MIYATA, Shinya IWASHITA,
 Daisuke YAMASHITA, Hidefumi MATSUZAKI,
 Kunihiro KAMATAKI, Naho ITAGAKI,
 Kazunori KOGA, Masaharu SHIRATANI
*Kyushu University, *National Institute of Advanced Industrial Science and Technology*
- T2-4.P2**
Ion Mobility Sensor Based on Photo-Ionization Light Source for Trace Gas Sensing  
- M SURESH, Nilesh J VASA, *S SASEENDRAN,
 **Vivek AGARWAL
Indian Institute of Technology Madras,
**Fluid Control Research Institute,*
***Indian Institute of Technology Bombay*
- T2-5.P2**
Thermal Probe Measurements of Energy Flux onto a Substrate during ICP Assisted Sputter-Deposition  
- Hiroaki KITAGAWA, Ryoji KAN, Kenji MINE,
 Masanori SHINOHARA, Yoshinobu MATSUDA
Nagasaki University

T2-6.P2

Substrate Temperature Dependence of Feature Profile of Carbon Films on Substrate with Submicron Trenches ^{**\$+}

Takuya NOMURA, Tatsuya URAKAWA,
Yuki KORENAGA, Daisuke YAMASHITA,
Hidefumi MATSUZAKI, Kazunori KOGA,
Masaharu SHIRATANI, *Yuichi SETSUHARA,
**Makoto SEKINE, **Masaru HORI
*Kyushu University, *Osaka University,*
***Nagoya University*

T2-7.P2

Cluster-Free B-Doped a-Si:H Films Deposited Using SiH₄ + B₁₀H₁₄ Multi-Hollow Discharges ^{**%\$}

Kenta NAKAHARA, Yuki KAWASHIMA,
Muneharu SATO, Takeaki MATSUNAGA,
Kousuke YAMAMOTO,
William Makoto NAKAMURA,
Daisuke YAMASHITA,
Hidefumi MATSUZAKI, Giichiro UCHIDA,
Naho ITAGAKI, Kazunori KOGA,
Masaharu SHIRATANI
Kyushu University

T2-8.P2

Deposition Profiles of Microcrystalline Silicon Films Using Multi-Hollow Discharge Plasma CVD ^{**%}

Takeaki MATSUNAGA, Yuki KAWASHIMA,
Kazunori KOGA, Kenta NAKAHARA,
William Makoto NAKAMURA, Giichiro UCHIDA,
Naho ITAGAKI, Daisuke YAMASHITA,
Hidefumi MATSUZAKI, Masaharu SHIRATANI
Kyushu University

T2-9.P2

Photoluminescence of Si Nanoparticles Synthesized Using Multi-Hollow Discharge Plasma CVD ^{**%\$}

Yuki KAWASHIMA, Kousuke YAMAMOTO,
Muneharu SATO, Takeaki MATSUNAGA,
Kenta NAKAHARA, Daisuke YAMASHITA,
Hidefumi MATSUZAKI, Giichiro UCHIDA,
Kazunori KOGA, Masaharu SHIRATANI,
*Michio KONDO
*Kyushu University, *National Institute of Advanced Industrial Science and Technology*

T2-10.P2

Fabrication of n-Type β-FeSi₂/p-Type Si Heterojunctions by Pulsed Laser Deposition and Their Application to NIR Photodiodes ^{**%}

Chen LI, Wataru YOKOYAMA, Shota IZUMI,
Promros NATHAPORN, Tsuyoshi YOSHITAKE
Kyushu University

T2-11.P2

Plasma CVD Treatment for Titanium Dioxides to Approach the High Performance of Photocatalysts by Visible Light Irradiation ^{**\$&}

Kazuya YAMAMOTO, Yuki MATSUURA,
Ayako NAKAMURA, Tatsuhiro SONODA,
Shigenori MATSUSHIMA, Kenji YAMADA
Kitakyushu National College of Technology

T2-12.P2

Preparation of Alq₃ Thin Films for Organic Electroluminescence Using Plasma Ablation Method ^{**\$&+}

Hiroharu KAWASAKI, Yoshiaki SUDA,
Tamiko OHSHIMA, Yoshihito YAGYU
Sasebo National College of Technology

T2-14.P2

Patterned Growth of ZnO Nanowires Using NAPLD with Nano-Imprint ^{**%\$}

K. TOYA, K. KUBO, K. TSUTA, A. KUMEDA,
D. NAKAMURA, M. HIGASHIHATA, T. OKADA,
T. ASANO
Kyushu University

WIE-1.P2

A Study on Edge Detection Techniques in Retinex Based Adaptive Filter ^{**\$&}

P. SWARNALATHA
VIT University

WIE-2.P2

Precise CBIR System Using Relevance Feed Back Based on Color and Texture Feature ^{**-}

B. JYOTHI, Y. Madhavee LATHA, V.S.K. REDDY
MRCET

WIE-3.P2

Robust Digital Video Watermarking in an Orthogonal Parametric Space ^{***}

M. OMIDYEGANEH, H. KHALILIAN,
S. GHAEMMAGHAM, *S. SHIRMOHAMMADI
Sharif University of Technology,
**University of Ottawa*

WIE-4.P2

A DCT Based Permutated Image Digital Watermarking Method ^{**)}

Reena GUNJAN, Saurabh MAHESHWARI,
Vijay LAXMI, Manoj S. GAUR
Malaviya National Institute of Technology,
**The International Centre for the Study of East Asian Development*

WIE-5.P2

n-Gram Modeling for Visual Speech Recognition ^{**+}

Preeti SINGH, V. LAXMI, Ramprasad JAT,
M.S. GAUR
Malaviya National Institute of Technology

WIE-6.P2

Audio Signal Classification Using Mel-Spectrum Teager Energy Coefficients ^{**'}

Deepti SINGH, *Darren F. KAVANAGH,
*Francis BOLAND
*BITS, *Trinity College Dublin*

WIE-7.P2

RSS-Based Sybil Attack Detection in VANETs ^{**+*}

Jyoti GROVER, M.S. GAUR, Nitesh PRAJAPATI,
Vijay LAXMI
Malaviya National Institute of Technology

WIE-8.P2

An Internet Based Interactive Embedded Data Acquisition System for Vehicle Collision Detection-Review ^{**&+}

Vaishali U. PATIL, *Avichal R. KAPUR
Lokmanya Tilak College of Engineering,
**NYSS, Meghe Group*

WIE-9.P2

A Study on Dirty Paper Coding with a Maximum Beam in Multiuser MIMO Downlinks ^{**+}

Cong LI, Yasunori IWANAMI, Eiji OKAMOTO
Nagoya Institute of Technology

WIE-10.P2 Adaptive Routing Protocol Selection in MANET Using Regression Model''&& &	WIE-22.P2 Comparative Study of Low-Leakage SRAM Structures Using 90nm CMOS Technology''& (\$
S.B.M. PRIYA, M. RAMAKRISHNAN, *S. SHANMUGAVEL <i>SSN College of Engineering, *Anna University</i>	Marie Elma B. DOMINGO, Fritzel I. OSTIA, Rosario M. REAS, Anastacia B. ALVAREZ, Louis P. ALARCON <i>University of the Philippines</i>
WIE-11.P2 Design and Implementation of Automatic Water Heating System''&& +	T4-1.P2 High-Accuracy Positioning Method Using Public Wireless Network Based on Recorded Radio Propagation Characteristics''& ((
P RAVIBABU, A. PRAVEEN, B.Susheel KUMAR, Ch.Vikas CHANDRA HYD	Naoaki YOKOI, *Hiroshi HOSAKA, **Yasuhiro KAWAHARA, ***Kenji SAKATA <i>The University of Tokyo and JSPS Research Fellow, *The University of Tokyo, **Kobe University, ***The Location Inc.</i>
WIE-12.P2 Infrastructure ENUM Implementation in Australia''&& &	T4-2.P2 Symbol-Based Soft Relaying Strategy for Cooperative Wireless Networks''& (-
Ananda Tapasvi JAMMULAMADAKA, Mark A. GREGORY <i>RMIT University</i>	Azlan ABD AZIZ, Yasunori IWANAMI, Eiji OKAMOTO <i>Nagoya Institute of Technology</i>
WIE-13.P2 A Novel Approach to Take Telemedicine to Rural India''&& ,	T4-3.P2 Multibranch Switch-and-Stay Diversity with a New Switch Statistic on Wireless Fading Channels''&))
Praveen Kumar KANNOJU, K.V. SRIDHAR, K.S.R. Krishna PRASAD <i>National Institute of Technology, Warangal</i>	Yawgeng A. CHAU, Yao-Hua CHEN <i>Yuan-Ze University</i>
WIE-14.P2 A High Efficiency Driver for High-Brightness White LED Lamp	T4-4.P2 Design of a QPSK Communication System Based on Costa Loop Using FPGAs''& *\$
Yu-Jen CHEN, Wen-Ching YANG, Chin-Sien MOO, *Yao-Ching HSIEH <i>National Sun Yat-Sen University, *National Dong Hwa University/MGEEF</i>	Duc-Tuyen TA, T.A. VU <i>University of Engineering and Technology, VNU-HN</i>
WIE-15.P2 Automated Inventory Management and Security Surveillance System Using Image Processing Techniques''& \$*	T4-5.P2 New Insight to Diversity Receivers in Presence of Non-Gaussian Fading Environment''& *)
S. JYOTHSNA, Adwait GANDHE, Apoorvaa DESHPANDE, *Sourabh BODAS <i>BITS Pilani, *Université de Bourgogne</i>	Narongrit MEKLOI, Kamon JIRASEREEMORNKUL <i>King Mongkut's University of Technology Thonburi</i>
WIE-16.P2 Efficient Pedestrian Detection by Bin-Interleaved Histogram of Oriented Gradients''& %	T4-6.P2 An Improved Complex Field Network Coding Scheme for Wireless Relay System in Asymmetric Link Environment''& -
Haengseon SON, Seonyoung LEE, Jongchan CHOI, Kyungwon MIN <i>Korea Electronics Technology Institute</i>	Won-Joon HWANG, Jun-Hee JANG, Hyung-Jin CHOI <i>Sungkyunkwan University</i>
WIE-17.P2 SIFT Based Monocular SLAM with Multi-Clouds Features for Indoor Navigation''& %	T4-7.P2 An Alamouti-Based Path Selection Strategy for Multihop Relay Communications''& +(
Abbas M. ALI, Jan NORDIN <i>Universiti Kebangsaan Malaysia</i>	Smich BUTCHAROEN, Chaiyod PIRAK <i>King Mongkut's University of Technology</i>
WIE-18.P2 Comparison of Iterative and Direct Approaches for Multi-Steps Ahead Time Series Forecasting Using Adaptive Hybrid-RBF Neural Network''& &\$	T4-8.P2 Second-Order Statistics over Correlated Dual-Hop Rayleigh Fading Channels''& , \$
Mazlina MAMAT, Salina Abdul SAMAD <i>Universiti Kebangsaan Malaysia</i>	Karl Yung-Ta HUANG, Yawgeng A. CHAU <i>Yuan-Ze University</i>
WIE-19.P2 Agribot - A Multipurpose Agricultural Robot''& &*	T4-9.P2 Residual Error Rate in Single-Relay Dual-Hop Systems with Retransmission''& , *
Akhila GOLLAKOTA, M.B. SRINIVAS <i>Birla Institute of Technology and Science</i>	You-Sun YOUN, Dongwoo KIM <i>Hanyang University</i>
WIE-20.P2 Parallel Versus Perpendicular Plots - A Comparative Study -& ' \$	T7-1.P2 Offline Web Application and Quiz Synchronization for E-Learning Activity for Mobile Browser''& - \$
Raja Jamilah Raja YUSOF, Roziati ZAINUDDIN, Zulkifli Mohd YUSOFF <i>University of Malaya</i>	Roynnana M. IJTIHADIE, Yoshifumi CHISAKI, Tsuyoshi USAGAWA, *Bekti CAHYO H., *Achmad AFFANDI <i>Kumamoto University, *Institut Teknologi Sepuluh Nopember</i>
WIE-21.P2 A Reconfigurable Sensor Network Test Bed for Flood Monitoring''& '+	
M. RAKHEE, P Sai PHANEENDRA, M.B. SRINIVAS <i>BITS-Pilani</i>	

T7-2.P2 A Self-Recovery Technique for Highly-Available Stream Processing over Local Area Networks ^{**} & - (T8-3.P2 Low Leakage and Low Power of CMOS SRAM Peripheral Circuit ^{**} &) &
Fuyuan XIAO, *Kyoko NAGANO, *Tsuyoshi ITOKAWA, *Teruaki KITASUKA, *Masayoshi ARITSUGI <i>Gulin University of Technology,</i> <i>*Kumamoto University</i>	T. BHUVANESWARI, C. SENTHILPARI, Hii Ming TAT <i>Multimedia University</i>
T7-3.P2 A Database System for Form Data and Form Description Data Management ^{**} & \$	T8-4.P2 A Three-Dimensional Binocular Range Sensor LSI with a 106 dB Wide Dynamic Range Pixel ^{**} & +
Koji KONDO, Kunihiko KANEKO <i>Kyushu University</i>	Masatomo KAWANO, Yukari HIRATA, *Yutaka ARIMA <i>Fukuoka Industry, Science and Technology Foundation,</i> <i>*Kyushu Institute of Technology</i>
T7-4.P2 Extending Mobile Service Middleware with Support for Context-Aware Service Processing ^{**} & \$*	T8-5.P2 A High Gain Low Power Up-Conversion Mixer for IFWA WiMax System ^{**} & * &
Andrew MEADS, Ian WARREN <i>University of Auckland</i>	Wen-Shan HXIAO, Zhi-Ming LIN <i>National Changhua University of Education</i>
T7-5.P2 A Newly Developed Automated Acquisition System of AMCOS for Acquiring Chromatography Data in XML Format ^{**} & %	T8-6.P2 A 1V Wide-Tuning Back-Gate Coupling Quadrature VCO ^{**} & **
M.S. HAPEEZ, N.R. HAMZAH, H. HASHIM, M.K. HAMZAH <i>Universiti Teknologi MARA</i>	You-Yi HSIEH, Zhi-Ming LIN <i>National Changhua University of Education</i>
T7-6.P2 Test-Driven Development for Graphical UIs: A Multi-Platform Toolset ^{**} & %	
Sally E. GOLDIN, Thanachao LUENGWITAYAKORN, Supakit SUPADARATTANAWONG <i>King Mongkut's University of Technology Thonburi</i>	
T7-7.P2 Software Development Based on SOA ^{**} & &	
Shen JIANJING, Guo XIAOFENG, Lin NAN <i>Zhengzhou Institute of Information Science and Technology</i>	
T7-8.P2 Synthesizing State-Based Objects from a Regular Set of Action Sequences ^{**} & *	
Kazuhide DOUGOME, *Keijiro ARAKI <i>Kagoshima National College of Technology,</i> <i>*Kyushu University</i>	
T7-9.P2 A Framework for Formal Specification Considering Review and Specification-Based Testing ^{**} & ' &	
Yasumasa NAKATSUGAWA, Taro KURITA, *Keijiro ARAKI <i>SONY Corporation, *Kyushu University</i>	
T7-10.P2 Validation of Stepwise Refinement with Test Cases Generated from Formal Specification ^{**} & ' +	
Shinya YAMADA, Keijiro ARAKI, Shigeru KUSAKABE, Yoichi OMORI <i>Kyushu University</i>	
T8-1.P2 Proposal and Analyses of Resonant Bilateral Converter Employing Simple Zero Current Switches ^{**} & (&	
Keiju MATSU, Takanori ASABA, Masaru HASEGAWA <i>Chubu University</i>	
T8-2.P2 A 2.5-Gb/s Clock and Data Recovery Circuit with $\Delta\Sigma$ -Modulated Fractional Frequency Compensation ^{**} & (,	
Ching-Yuan YANG, Wei-Shuo LIN, *Jung-Mao LIN, Hsin-Ming WU <i>National Chung Hsing University,</i> <i>*Industrial Technology Research Institute</i>	