

Guidebook of ICICIC-2007

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ICICIC-2008 Call for Paper

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Update to Conference Program

- Session C23 had been switched to 13:30-15:00, September 6, Meeting Room 3 KCA (2F).
- C24-03 (ICICIC-2007-0483) had been switched to B20.
- Prof. Wann-Jyi Horng had been invited to be the co-chair of C17.
- Prof. Shu-Ing Liu had been invited to be the co-chair of C09.
- Prof. Huei-Fu Lu had been invited to be the co-chair of C01.
- Prof. Tsung-Nan Chou had been invited to be the co-chair of C17.
- Prof. Mong-Fong Horng had been invited to be the co-chair of B24.
- The affiliation information for B14-05(ICICIC-2007-1692) hand been corrected to be
Design of Power Assisted Wheelchair Based on Torque Observer
Jin-Chyz Ou and Tien-Chi Chen
National Cheng Kung University, Taiwan
- The following information was missed in the guidebook:
C32-02, ICICIC-2007-2377
Crash of NIS Server Generates Unusual DNS Query Traffic
Dennis Arturo Ludeña Romaña, Hirofumi Nagatomi, Yasuo Musashi, Katsunori Taniguchi,
Nobuaki Oomura, Ryuichi Matsuba, and Kenichi Sugitani
Kumamoto University, Japan



Second International Conference on Innovative Computing, Information and Control

September 5 – 7, 2007

Kumamoto City International Center, Kumamoto, Japan



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Taiwanese Association
for Artificial Intelligence

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The Second International Conference on Innovative Computing, Information and Control (ICICIC2007) <http://www.ijicic.org/icic2007.htm> organized by ICIC International (<http://www.ijicic.org>) will be held on September 5 - 7, 2007, at Kumamoto City International Center, Kumamoto, Japan.

Scope

Papers are solicited for, but not limited to, the two major categories:

Innovative Computing and Information

- Signal and Image Processing
- Speech and Audio Processing
- Image and Video Coding and Transmission
- Video Processing and Analysis
- Image Video Storage
- Retrieval and Multimedia
- Digital Watermarking and DRM
- Artificial Intelligence
- Computing and Intelligent Systems
- Machine Learning
- Biometric and Biomedical Applications
- Sensor and Neural Networks
- Knowledge Discovery and Data Mining
- Others

Intelligent System and Control

- Fuzzy Mathematics and Applications
- Fuzzy Systems Modeling and Analysis
- Knowledge-based Systems
- Hybrid Systems Modeling and Design
- Fault Detection and Identification
- Optimization and Decision Making
- Control Systems and Applications
- Systems Identification
- Risk Analysis and Management
- Modeling and Simulation Techniques
- Others

Boukas, Ecole Polytechnique de
Montreal, Canada

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Paper Submission

Papers are invited from prospective authors with interest on the related areas (oral or poster presentations). Each paper should follow the IEEE format with title, authors' names, affiliation, email addresses, an up to 150-words abstract, and a two-column body with 4 single-spaced pages and with font size at 10 pts. All papers must be submitted electronically in PDF format only:<http://bit.kuas.edu.tw/~icic07/>

Extended versions of selected papers will be published in the following SCI indexed journals:

Circuits Systems and Signal Processing; Int. J. Innovative Computing, Information & Control

Important Dates

Deadline for paper submission

March 10, 2007

Notification of acceptance

April 10, 2007

Camera-ready manuscript submission

April 30, 2007

The Conference Proceedings will be published by IEEE Press, which is indexed by EI, ISTP, and INSPEC.

Preface

On behalf of the Second International Conference on Innovative Computing, Information and Control (ICICIC2007), it is our great pleasure to welcome you to the conference and to Kumamoto. Kyushu Tokai University, technically sponsored by IEEE, is pleased to be hosting this annual international event which has attracted professionals from a large range of countries.

ICICIC2007 offers a series of special events targeting signal and image processing, speech and audio processing, retrieval and multimedia, digital watermarking and security, sensor and neural networks, knowledge discovery and data mining, fuzzy systems and applications, control systems and applications. Well over 1000 papers were received by the conference, and 624 papers were accepted for inclusion in the final technical program. The standard of papers presented this year is extremely high and each one was refereed by at least two independent referees under supervision by the ICICIC 2007 International Program Committee. The conference proceedings were published by the Conference Publishing Services of the IEEE Computer Society. Extended version of some selected papers will also be published by the SCI indexed journals, *Circuits Systems and Signal Processing*; and *International Journal of Innovative Computing, Information and Control*.

We believe the conference provides an excellent opportunity to bring together a broad range of researchers from academia and industry, professionals, and practitioners to exchange idea and promote discussion on related research topics. We are sure that over the coming days you will enjoy and benefit from an exciting program of international plenary speakers, oral and poster presentations.

Two prominent international leading experts will offer the Plenary Speeches at the Conference. Professor Harold Szu from George Washington University (USA) will address on Innovative Computing for Homecare, and Professor Pieter Nagel from Victoria University (Australia) will talk about Logistics Cities: Infrastructural Nodes towards Supply Chain Efficiencies.

We would like to thank the authors for their tremendous contributions, the members of the program committee, the reviewers and the local organizing committee. Without their support, the program of ICICIC2007 would have not been possible. We are also very grateful to National Kaohsiung University of Applied Sciences for the financial support and setting up the paper submission and review systems.

We are sure you will enjoy your time in Japan and it has been our pleasure in welcoming you to the city of Kumamoto. We trust that you will leave the ICICIC2007 with a wealth of new knowledge and ideas in addition to building on your professional networks and friendships.

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Takeshi Yamakawa and Peng Shi
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Industry Culture Hall 2F, 7-10 Hanabata-town, Kumamoto 860-0806, Japan
URL: <http://www.kumamoto-icb.or.jp>

Kumamoto Technology and Industry Foundation
2081-10 Tabaru, Mashiki-machi, Kamimashiki-gun, Kumamoto 861-2202, Japan
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URL: <http://www.kis.co.jp>

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24-4 Sakuragaoka-cho, Shibuya-ku, Tokyo 150-0031, Japan
URL: <http://www.nyc.co.jp>

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1-403-53 Cosugi, Nakahara, Kawasaki 211-0063, Japan
URL: <http://www.nms.necel.com>

Nishinippon System Installations and Construction Co., Ltd
3-15-7 Kuhonji, Kumamoto 862-0976, Japan
URL: <http://www.sysken.co.jp>

Nittou Tuken Corporation

2-12-26 Kounan, Minato-ku, Tokyo 108-8647, Japan
URL: <http://www.nittou.com>

Nippon Telegraph and Telephone West Corporation Kumamoto Branch
3-1 Sakuramachi, Kumamoto 860-8519, Japan
URL: <http://www.ntt-west.co.jp/kumamoto>

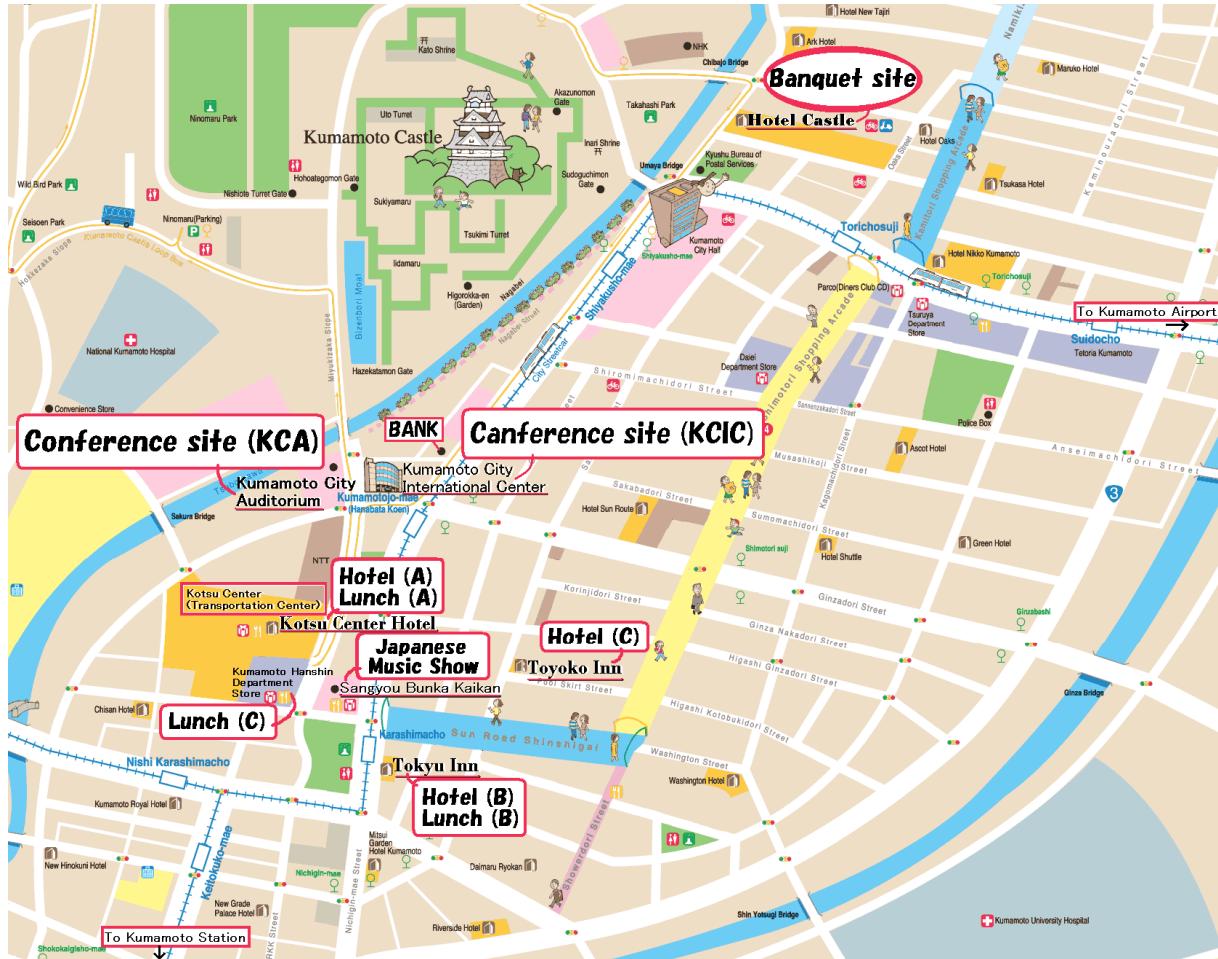
Seibu Electric Industry Co., Ltd.
3-7-1 Hakataeki-Higashi, Fukuoka 812-8565, Japan
URL: <http://www.seibu-denki.co.jp>

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2-9-2 Suda-cho, Kanda, Chiyoda-ku, Tokyo 101-0041, Japan
URL: <http://www.sic.co.jp>

Tsutsumi Service Engineering Co., Ltd.
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1-25-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo 163-0635, Japan
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4-22-10 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan
URL: <http://www.use-ebisu.co.jp>

Map and Route to KCIC and KCA



The address of Kumamoto City International Center (KCIC):

4-8 Hanabata-cho, Kumamoto-city, Kumamto, Japan.

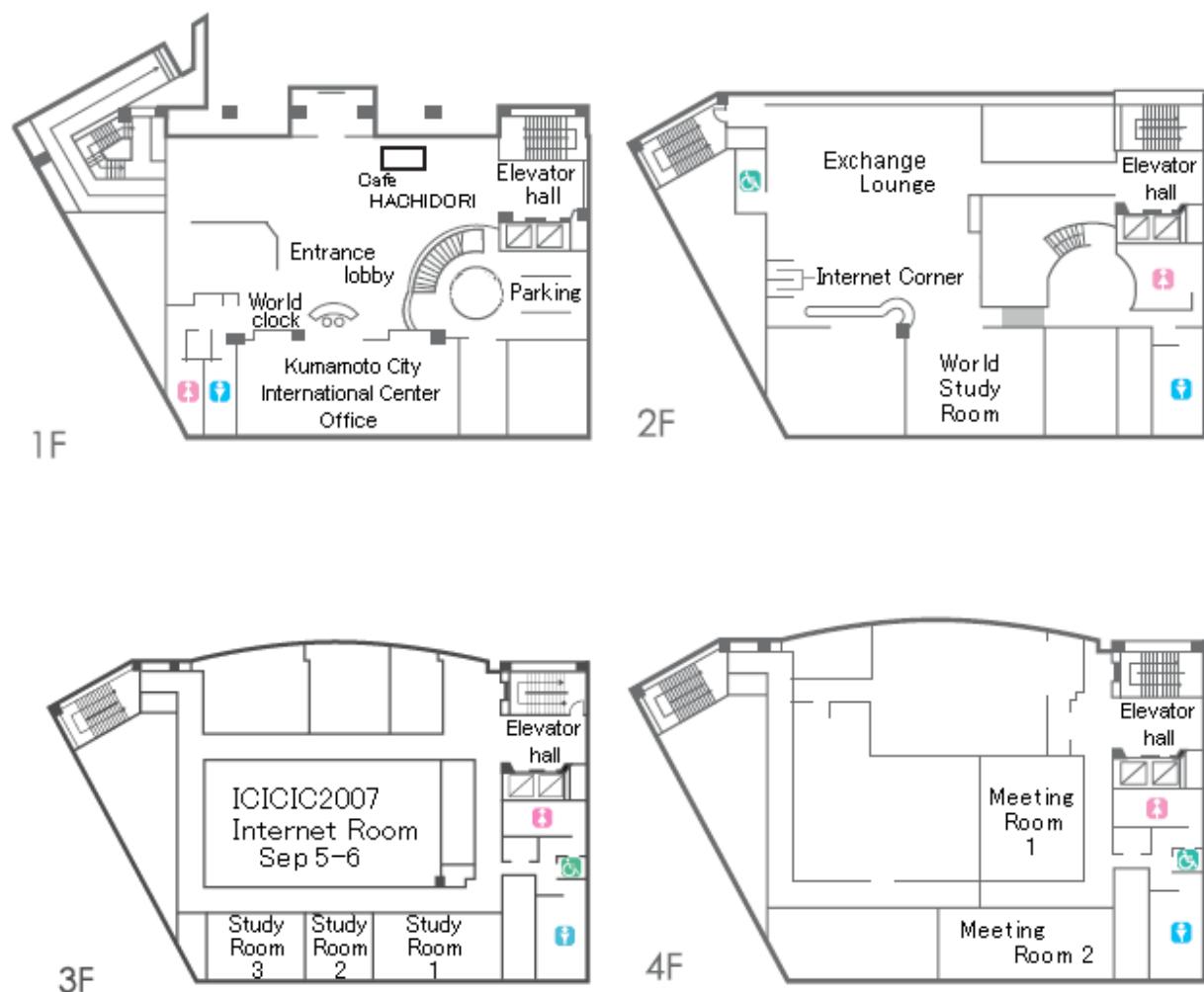
(熊本市花畠町 4 番 8 号 熊本市国際交流会館)

The address of Kumamoto City Auditorium (KCA):

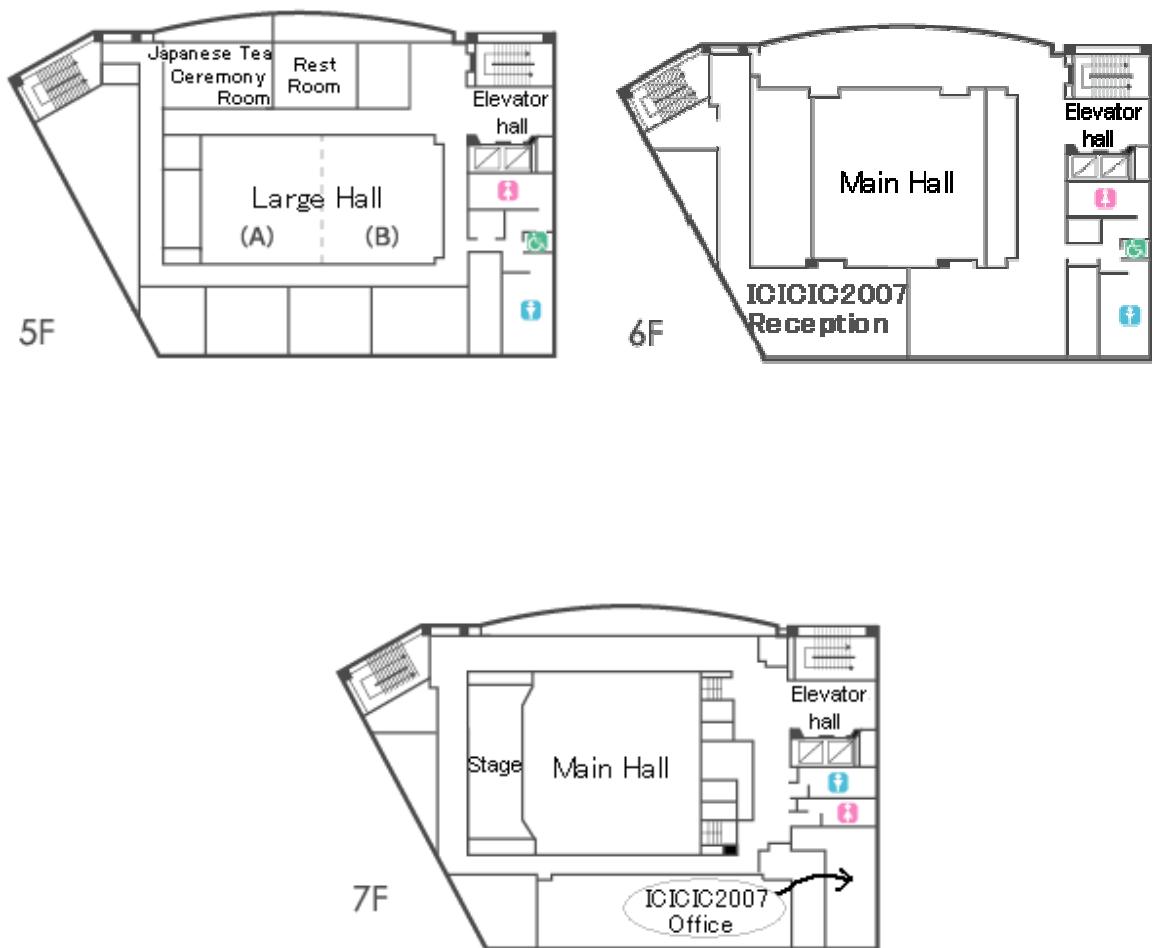
1-3 Sakura-Machi, Kumamoto-City, Kumamto, Japan.

(熊本市桜町 1 番 3 号 熊本市市民会館)

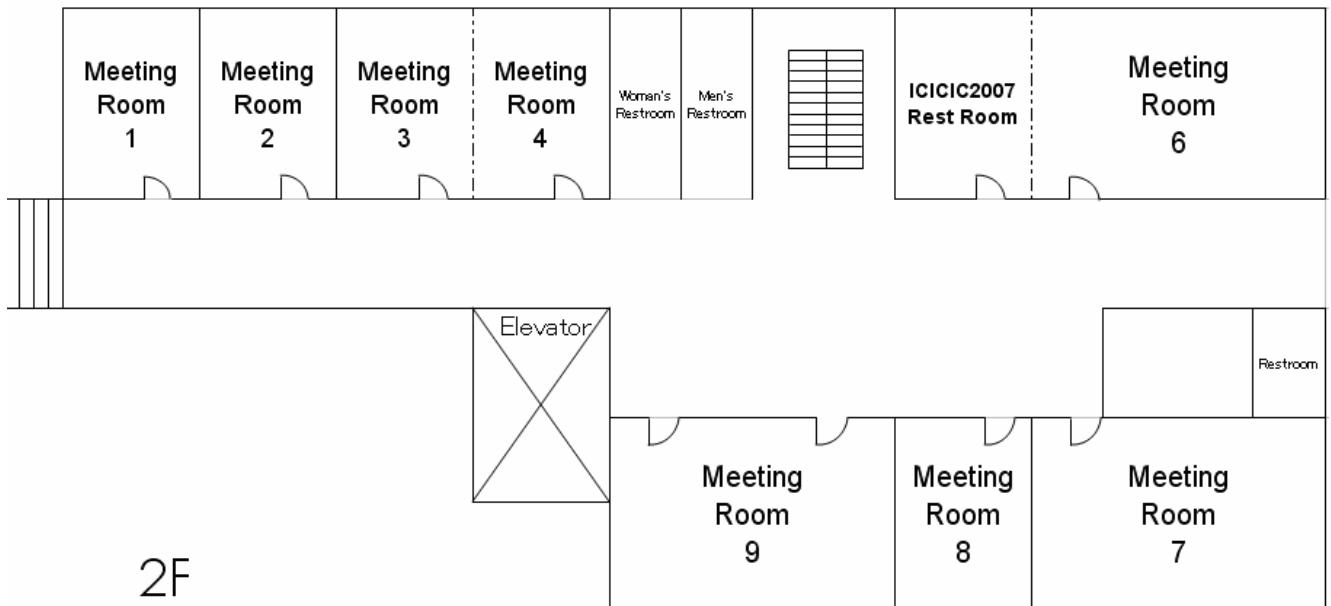
Layout of Kumamoto City International Center (KCIC)



Layout of Kumamoto City International Center (KCIC)



Layout of Kumamoto City Auditorium (KCA)



Conference Schedule

Main Conference Site: Kumamoto City International Center (KCIC)
Sub Conference Site: Kumamoto City Auditorium (KCA)

	September 4, 2007
13:30	Registration
19:30	Venue: KCIC, Main Hall (6F)
18:30	Welcome Reception
20:00	Venue: KCIC, Main Hall (6F)

September 7, 2007

08:00 17:00	Registration							
08:40 ---	Session C01: Main Hall KCIC (7F)	Session C02: Meeting Room 1 KCIC (4F)	Session C03: Meeting Room 2 KCIC (4F)	Session C04: Study Room 1 KCIC (3F)	Session C05: Study Room 3 KCIC (3F)	Session C06: Meeting Room 6 KCA (2F)	Session C07: Meeting Room 7 KCA (2F)	Session C08: Meeting Room 9 KCA (2F)
10:10 10:30	Coffee Break							
10:30 ---	Session C09: Main Hall KCIC (7F)	Session C10: Meeting Room 1 KCIC (4F)	Session C11: Meeting Room 2 KCIC (4F)	Session C12: Study Room 1 KCIC (3F)	Session C13: Study Room 3 KCIC (3F)	Session C14: Meeting Room 6 KCA (2F)	Session C15: Meeting Room 7 KCA (2F)	Session C16: Meeting Room 9 KCA (2F)
12:00 13:30	Lunch							
13:30 ---	Session C17: Main Hall KCIC (7F)	Session C18: Meeting Room 1 KCIC (4F)	Session C19: Meeting Room 2 KCIC (4F)	Session C20: Study Room 1 KCIC (3F)	Session C21: Study Room 3 KCIC (3F)	Session C22: Meeting Room 6 KCA (2F)	Session C23: Meeting Room 7 KCA (2F)	Session C24: Meeting Room 9 KCA (2F)
15:00 15:20	Coffee Break							
15:20 ---	Session C25: Main Hall KCIC (7F)	Session C26: Meeting Room 1 KCIC (4F)	Session C27: Meeting Room 2 KCIC (4F)	Session C28: Study Room 1 KCIC (3F)	Session C29: Study Room 3 KCIC (3F)	Session C30: Meeting Room 6 KCA (2F)	Session C31: Meeting Room 7 KCA (2F)	Session C32: Meeting Room 9 KCA (2F)

Conference Program

September 4, 2007

Registration	13:30-19:30
Welcome Reception	18:30-20:00

September 5, 2007

Registration	08:00-17:00
Opening	08:40-09:00
Plenary Speech I	09:00-10:10
Coffee Break	
Sessions A01-A08	10:30-12:00
Lunch	
Sessions A09-A16	13:30-15:00
Coffee Break	
Sessions A17-A24	15:20-16:50
Japanese Music Show	19:00-21:00

September 6, 2007

Registration	08:00-17:00
Plenary Speech II	09:00-10:10
Coffee Break	
Sessions B01-B08	10:30-12:00
Lunch	
Sessions B09-B16	13:30-15:00
Coffee Break	
Sessions B17-B25	15:20-16:50
Conference Banquet	18:30-20:30

September 7, 2007

Registration	08:00-17:00
Sessions C01-C08	08:40-10:10
Coffee Break	
Sessions C09-C16	10:30-12:00
Lunch	
Sessions C17-C24	13:30-15:00
Coffee Break	
Sessions C25-C32	15:20-16:50

Plenary Speech I

Innovative Computing for Homecare

**Professor Harold Szu, PhD
Fellow of IEEE, and AIMBE
Office of Naval Research, and George Washington University, USA**

We develop an accumulatively effective and affordable set of smart pair devices to save the exuberant expenditure for the healthcare of aging population, which will not be sustainable when all the post-war baby boomers retire (78 millions will cost 1/5~? GDP in US alone). To design an accessible test-bed for distributed points of homecare, we choose two exemplars of the set to demonstrate the possibility of translation of modern military and clinical know-how, because two exemplars share identically the noninvasive algorithm adapted to the Smart Sensor-pairs for the real world persistent surveillance. Currently, the standard diagnoses for malignant tumors and diabetes disorders are blood serum tests, X-ray CAT scan, and biopsy used sometime in the physical checkup by physicians as cohort-average wellness baselines. The loss of the quality of life in making second careers productive may be caused by the missing of timeliness for correct diagnoses and easier treatments, which contributes to the one quarter of human errors generating the lawsuits against physicians and hospitals, which further escalates the insurance cost and wasteful healthcare expenditure. Such a vicious cycle should be entirely eliminated by building an "individual diagnostic aids (IDA)," similar to the trend of personalized drug, developed from daily noninvasive intelligent databases of the "wellness baseline profiling (WBP)". Since our physiology state undulates diurnally, the Nyquist anti-aliasing theory dictates a minimum twice-a-day sampling of the WBP for the IDA, which must be made affordable by means of noninvasive, unsupervised and unbiased methodology at the convenience of homes. Thus, a pair of military infrared (IR) spectral cameras has been demonstrated for the noninvasive spectrogram ratio test of the spontaneously emitted thermal radiation from a normal human body at 37oC temperature. This invisible self-emission spreads from 3 microns to 12 microns of the radiation wavelengths. This pair of cameras are used in the military satellite surveillance imaging operated at 3~5 mid IR band and 8~12 long IR band accompanied by several other UV and visible bands cameras. We can thereby measure both the thermal emission bands at the mid IR and the long IR (X1 X2). Similarly, we will take six times per pair saliva samples (X1 X2) inside the upper jaw for three meals daily, of which the dynamics is shown as a delayed mirror image of "blood glucose level". And for which we must design a portable lab "system on chip (SOC)," and the micro-fluidity of pair channels per chemical reactions. According to the same biochemical principle of spontaneity, we apply the identical algorithm to determine both the ratio of hidden malignant and benign heat sources (s1, s2) and the blood glucose & other sources (s1, s2) leaking into the saliva. This is possible because of the Gibbs isothermal spontaneous process, in which the Helmholtz free energy must be minimized for the spontaneous thermal radiation from unknown mixing of malign and benign sources or the diffusion mixing of glucose s1* and other sources s2*. We have derived a general formula relating two equilibrium values, before and after, in order to design our devices. Daily tracking the spectrogram ratio and saliva glucose levels are, nevertheless, needed for a reliable prediction of individual malignant angiogenesis and blood glucose level in real time.

Plenary Speech II

Logistics Cities: Infrastructural Nodes towards Supply Chain Efficiencies

Professor Pieter Nagel, PhD
Victoria University, Australia

Global companies often find an impediment to the efficiencies of their supply chains through limitations in infrastructure. This is most frequently evident at ports of entry, primarily sea ports. At this interface, corporate and government requirements and agendas often do not align.

The Institute for Logistics and Supply Chain Management (ILSCM) at Victoria University Australia is engaged in research to investigate options for integrated and sustainable economic development in the western region of Melbourne, using logistics as the economic driver. Through this research, it identified the creation of a National Logistics City to address critical social and economic development issues emergent in western Melbourne.

ILSCM has recognised that establishment of Logistics Cities, as the ultimate progression of Dense Trade Clusters, have the capacity to provide for the effective alignment of corporate and government objectives to facilitate international trade and maximise global competitiveness. Preliminary National Logistics City conceptual recommendations have generated significant interest from the Victorian State government. This research has subsequently received endorsement as a project of State and National significance that has the capacity to increase Australia's long term global competitiveness.

By definition, Dense Trade Clusters are nodal points that vary in size and complexity of service, located away from traditional land, air and coastal entry points that facilitate and process international trade and incorporate value-added services and strategic investments in multi-modal transportation assets. Contextually, inland ports and logistics hubs are other designations of the Dense Trade Cluster which are subordinate in size and level of service.

ILSCM has delivered a wealth of applied research involving data collection, survey design and analysis, traffic flow analysis and trade volume profiling and optimisation. The Institute for Logistics and Supply Chain Management has employed optimisation techniques and mathematical processes to substantiate its research into the development of a National Logistics City for Western Melbourne as an integrated economic development plan to support Australia's capacity to compete globally.

This presentation will share some of the research team's experiences that involved the development of the conceptual framework and the complexities associated with stakeholder engagement and interface with the wider community in developing a project that has the capacity, if adopted, to result in significant changes to the physical, economic and social landscape of Victoria, Australia.

Session List

September 5, 2007, 10:30-12:00

- A01: Human Information Technologies (I)**
- A02: Intelligent Informatics (I)**
- A03: Interactive Robots and Agents**
- A04: Support for Human's Social Activities by Information Technology**
- A05: Information Sharing and Data/Text Mining and Discover**
- A06: Fuzzy Systems and Fuzzy Control**
- A07: Innovative Computing in Guide System**
- A08: Soft Science and its Application**

September 5, 2007, 13:30-15:00

- A09: Human Information Technologies (II)**
- A10: Intelligent Informatics (II)**
- A11: Neuroimage and Modeling for Analysis of Higher Brain Function**
- A12: Models and Algorithms for Optimization (I)**
- A13: Quality Technology and Quantitative Management (I)**
- A14: Neuro-Fuzzy, Chaos Applications (I)**
- A15: Design and Implementation of Control Systems (I)**
- A16: Agent Model for Human Expert**

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- A17: Models and Algorithms for Optimization (II)**
- A18: Quality Technology and Quantitative Management (II)**
- A19: Neuro-Fuzzy, Chaos Applications (II)**
- A20: Design and Implementation of Control Systems (II)**
- A21: Innovative Optimization Methods in Finance and Production Management**
- A22: Computer Technologies for Intelligent Systems**
- A23: Information Networking and Applications**
- A24: Innovated Computation and Its Applications**

September 6, 2007, 10:30-12:00

- B01: Knowledge Based Systems**
- B02: Innovative Information Systems for Education (I)**
- B03: Engineering Applications of Artificial Intelligence and Soft-Computing**
- B04: Mining Text and Multimedia Data**
- B05: Inovative Computing and Industrial Applications**
- B06: Intelligent Digital Homes on Networks**
- B07: Intelligent Techniques for Time Series Data mining**
- B08: Innovative Computing for Clustering**

September 6, 2007, 13:30-15:00

- B09: Innovative Information Systems for Education (II)**
- B10: Intelligent Video Processing**
- B11: Applied Statistics and Intelligent Computing (I)**
- B12: Intelligent Control**
- B13: Innovative Embedded Computing**
- B14: Recent Advances on Mechatronics (I)**
- B15: Intelligent Data Analysis (I)**

B16: Advanced Image Recognition and Retrieval (I)

September 6, 2007, 15:20-16:50

- B17: Applied Statistics and Intelligent Computing (II)**
- B18: Digital Watermarking and Multimedia Security**
- B19: Intelligent Data Analysis (II)**
- B20: Network Security Control and Management**
- B21: Advanced Image Recognition and Retrieval (II)**
- B22: Neural Network and Its Application**
- B23: Recent Advances on Mechatronics (II)**
- B24: Advanced Control Theory and Applications**
- B25: Innovative Techniques and Applications**

September 7, 2007, 08:40-10:10

- C01: Innovative Computing on Finance (I)**
- C02: Evolutionary Optimization (I)**
- C03: State Estimation and Motion Control (I)**
- C04: Identification for Optimization in Nonlinear Systems (I)**
- C05: Intelligent Information Processing for Biomedical Decision Support**
- C06: Simulations and Modeling in Biophysics for Medical Applications (I)**
- C07: Innovative Approaches to Management Engineering (I)**
- C08: Novel Approaches to Pervasive Applications (I)**

September 7, 2007, 10:30-12:00

- C09: Innovative Computing on Finance (II)**
- C10: Evolutionary Optimization (II)**
- C11: State Estimation and Motion Control (II)**
- C12: Identification for Optimization in Nonlinear Systems (II)**
- C13: Simulations and Modeling in Biophysics for Medical Applications (II)**
- C14: Innovative Approaches to Management Engineering (II)**
- C15: Novel Approaches to Pervasive Applications (II)**
- C16: E-Commerce and Logistics Management (I)**

September 7, 2007, 13:30-15:00

- C17: Innovative Computing on Finance (III)**
 - C18: Innovative Approaches to Management Engineering (III)**
 - C19: E-Commerce and Logistics Management (II)**
 - C20: Adaptive Control and Applications**
 - C21: Recent Logistics Information Systems**
 - C22: New Concept of Thermal Fluid Applications**
 - C23: Human-Computer Interaction and Intelligent Systems**
 - C24: Innovative Design and Implementation**
- September 7, 2007, 15:20-16:50**
- C25: Innovative Computing on Finance (IV)**
 - C26: Innovation in Soft and Evolutionary Computing**
 - C27: Signal Processing and Image Processing (I)**
 - C28: Signal Processing and Image Processing (II)**
 - C29: Cross-discipline Techniques and Application (I)**
 - C30: Cross-discipline Techniques and Application (II)**
 - C31: Cross-discipline Techniques and Applications (III)**
 - C32: Cross-discipline Techniques and Application (IV)**

Session A01, ICICIC-2007-IS01

Human Information Technologies (I)

Session Chairs: Tsuyoshi Ideguchi, Kyushu Tokai University, Japan

A01-01, ICICIC-2007-IS01-001

Characteristics of Human Speed Sensation for Flying-Ball Pictures

Ryou Morita, Kazuhiro Koshi, and Hiroaki Koga

Kumamoto National College of Technology, Japan

A01-02, ICICIC-2007-IS01-002

Detecting Changes of Affects by Accelerated Plethysmogram

Tsuneo Kuwabara and Mitsuharu Amemiya

Kanagawa University, Japan

A01-03, ICICIC-2007-IS01-003

Character Selection with Sympathetic Skin Response when Listening to Sounds

Fumihiko Masuda and Chikamune Wada

Kyushu Institute of Technology, Japan

A01-04, ICICIC-2007-IS01-004

Measurement and Quantitative Analysis of the Human Visual Interpolation Ability for Partially Erased Objects

Yinlai Jiang and Shuoyu Wang

Kochi University of Technology, Japan

A01-05, ICICIC-2007-0654

Face Recognition Based on Dominant Frequency Features and Multiresolution Metric

I Gede Pasek Suta Wijaya, Keiichi Uchimura, and Zhencheng Hu

Kumamoto University Kumamoto-Shi, Japan

A01-06, ICICIC-2007-0582

Robust Human Motion Recognition Based on Multi-directional Motion Representation

Md. Atiqur Rahman Ahad, T. Ogata, J. K. Tan, H. S. Kim, and S. Ishikawa

Kyushu Institute of Technology, Japan

Session A02, ICICIC-2007-IS02

Intelligent Informatics (I)

Session Chairs: Hugang Han, Prefectural University of Hiroshima, Japan

Liya Ding, Macau University of Science and Technology, China

A02-01, ICICIC-2007-IS02-001

A Bank of Kalman Filters and a Robust Kalman Filter Applied in Fault Diagnosis of Aircraft Engine Sensor/Actuator

Wei Xue, Ying-qing Guo, and Xiao-dong Zhang
Northwestern Polytechnical University, China

A02-02, ICICIC-2007-IS02-002

A Master-Slave Neural Network for Precise Diagnosis of Large Rotating Machinery

Xiao-dong Zhang
Northwestern Polytechnical University, China

A02-03, ICICIC-2007-IS02-004

Research on Spin Rocket Double-channel Proportional Control Characteristics

Bo MO, En-yu GAO, and Shu-xing YANG
Beijing Institute of Technology, China

A02-04, ICICIC-2007-IS56-015

A Distributed and Hierarchical Government Organization Model in Inter-organizational Business Integration

Jiangnan Qiu, Jiang Tian, and Xin Ye
Dalian University of Technology, China

A02-05, ICICIC-2007-2361

Design and Development of Knowware System

Liya Ding
Macau University of Science and Technology, China

A02-06, ICICIC-2007-2383

VM-based Benchmark and Analysis System for Testing Online Transaction Processing

Maria Luisa Catalan, Dennis A. Ludeña R., and Hidenori Umeno
Kumamoto University, Japan

Session A03, ICICIC-2007-IS04

Interactive Robots and Agents

Session Chairs: Yoichiro Maeda, University of Fukui, Japan

Daisuke Katagami, Tokyo Institute of Technology, Japan

A03-01, ICICIC-2007-IS04-001

Policy Evaluation Based on Embodiment for Robot Learning by Multiple Demonstrations

Daisuke Katagami, Masato Kotake, and Katsumi Nitta

Tokyo Institute of Technology, Japan

A03-02, ICICIC-2007-IS04-002

Animal Gait Generation for Quadrupedal Robot

Hidekazu Suzuki, Hitoshi Nishi, Atsushi Aburadani, and Seiichi Inoue

Tokyo Polytechnic University, Japan

A03-03, ICICIC-2007-IS04-003

An Intelligent Artifact as a Cohabitant: An Analysis of a Home Robot's Conversation Log

Naoko Matsumoto, Tatsuya Yamazaki, Akifumi Tokosumi, and Hirotada Ueda

Tokyo Institute of Technology, Japan

A03-04, ICICIC-2007-IS04-004

Service Robot System in a Store Using Personal Attribute

Kota Nakamura, Yoshiharu Yoshida, Toru Yamaguchi, and Eri Sato

Tokyo Metropolitan Institute of Technology, Japan

A03-05, ICICIC-2007-IS04-005

Behavior Evolution of Pet Robots with Human Interaction

Hiroyuki INOUE and Hifumi MIYAGOSHI

University of Fukui, Japan

A03-06, ICICIC-2007-0712

Model-Based and Non-Model-Based Velocity Estimators and Its Application to Mobile Robots

Shuhei Wada, Haruo Suemitsu, and Takami Matsuo

Oita University, Japan

Session A04, ICICIC-2007-IS05

Support for Human's Social Activities by Information Technology

Session Chairs: Jien Kato, Nagoya University, Japan

Xinkai Chen, Shibaura Institute of Technology, Japan

A04-01, ICICIC-2007-IS05-001

Information Processing Rate in Human-Computer Interaction

Jing Kong and Xiangshi Ren

Harbin Engineering University, China

A04-02, ICICIC-2007-IS05-002

Research on Web-based Community and Real-world Community in IT Education for Public

Wei Zhou, HuiYong Wang, HuiCong Wu, and XiangJun Ji

Hebei University of Science and Technology, China

A04-03, ICICIC-2007-IS05-003

A Simulation Model for Traffic Behavior at Merging Sections in Highways

Xingju WANG, Toshihiko MIYAGI, and Jiangqian YING

Gifu University, Japan

A04-04, ICICIC-2007-IS05-004

Interactive Publication Supporting for Origami Design

Jien Kato

Nagoya University, Japan

A04-05, ICICIC-2007-1282

A Quantitative Measurement of Voice Separation Ability in Humans

Di Miao and Shuoyu Wang

Kochi University of Technology, Japan

A04-06, ICICIC-2007-1500

Synchronization of Networked Oscillators and Its Application

Xinkai Chen

Shibaura Institute of Technology, Japan

Session A05, ICICIC-2007-IS06

Information Sharing and Data/Text Mining and Discover

Session Chairs: Guifa Teng, Agricultural University of Hebei, China
Rawshan Basha, University of Glamorgan, UK

A05-01, ICICIC-2007-IS06-001

Study on Evolution of Domain Ontology
Yao Liu, Xuefei Chen, and Zhifang Sui
Peking University, China

A05-02, ICICIC-2007-IS06-003

Gender Identification for Chinese E-mail documents
Gui-Fa Teng, Wen-Qiang Dong, Jing Yang, and Jian-Bin Ma
Agricultural University of Hebei, China

A05-03, ICICIC-2007-IS06-005

Design and Realization of Mobile Agent based Network Topology Discovery System
Xiao-rong Cheng, Chao Dong, and Hui-lan Zhao
North China Electric Power University, China

A05-04, ICICIC-2007-IS06-006

Melody Information Extraction of Humming Based on Wavelet Analysis
Ping Gao, Guifa Teng, Duanli Yang, Yang Zhao, and Yihong Liu
Agricultural University of Hebei, China

A05-05, ICICIC-2007-0787

Data Warehouse Design for Chinese Intelligent Question Answering System Based on Data Mining
Shou-ning Qu, Qin Wang, Kui Liu, and Yan Zou
University of Jinan, China

A05-06, ICICIC-2007-1665

Higherrarchical Data Mining for Unusual Sub-sequence Identifications in Time Series Processes
Jamal Ameen and Rawshan Basha
University of Glamorgan, UK

Session A06, ICICIC-2007-IS07

Fuzzy Systems and Fuzzy Control

Session Chairs: Shaocheng Tong, Liaoning University of Technology, China
Wei Liu, Dalian Maritime University, China

A06-01, ICICIC-2007-IS07-001

Robust Fault Tolerant Fuzzy control for Nonlinear Systems with Actuator Failures
Tiechao Wang, Shuo Tong, and Shaocheng Tong
Liaoning University of Technology, China

A06-02, ICICIC-2007-IS07-002

Type-2 Fuzzy Reasoning Model and Algorithms
Tao Wang, Yang Chen, and Shaocheng Tong
Liaoning University of Technology, China

A06-03, ICICIC-2007-IS07-004

Ant Algorithm Based on Weighting Order
Wei Liu, Rui-chun Ren, and Ya-qi Yang
Dalian Maritime University, China

A06-04, ICICIC-2007-IS07-005

Research on Extension's Utilization in Model's Self-learning
Wei Liu, Wennia Liu, and Hong Gao
Dalian Maritime University, China

A06-05, ICICIC-2007-IS07-006

The Research of Single Intersection Signal Control Method in Intelligence Transportation System
Wen-ge Ma, Hai-shuang Guan, Liang-zhi Li, and Xiao-guang Qin

A06-06, ICICIC-2007-0063

Fuzzy Robust Convex Optimization with Linear Membership Functions and Its Applications
Churen Sun and Lei Huang
Shanghai Institute of Foreign Trade, China

Session A07, ICICIC-2007-IS33

Innovative Computing in Guide System

Session Chairs: Yo-Ping Huang, Tatung University, Taiwan
Tsun-Wei Chang, Tatung University, Taiwan

A07-01, ICICIC-2007-IS33-001

An Interactive Handheld Device-Based Guide System Using Innovative Techniques
Yo-Ping Huang, Tsun-Wei Chang, and Wei-Po Chuang
Tatung University, Taiwan

A07-02, ICICIC-2007-IS33-002

A Region-Based Image Retrieval Approach Using Block DCT
Mann-Jung Hsiao, Yo-Ping Huang, and Te-Wei Chiang
Tatung University, Taiwan

A07-03, ICICIC-2007-IS33-003

Backup Mechanism for Cell-based Positioning Method in WSNs
Hung-Chi Chu and Rong-Hong Jan
Chaoyang University of Technology, Taiwan

A07-04, ICICIC-2007-IS33-004

On Pulse Coupling for Time Synchronization in Wireless Sensor Networks
Wei Yen and Hsueh-Sheng Huang
Tatung University, Taiwan

A07-05, ICICIC-2007-IS33-005

An Intelligent MRAS Platform for IP-based Mobile Networks
Chia-Sheng Tsai and Bo-Fu Shen
Tatung University, Taiwan

A07-06, ICICIC-2007-IS33-006

An Efficient Indexing Method for Content-Based Image Retrieval
Te-Wei Chiang, Tienwei Tsai, and Yo-Ping Huang
Chihlee Institute of Technology, Taiwan

Session A08, ICICIC-2007-IS54

Soft Science and its Application

Session Chairs: Yosinori Ueda, Toyo University, Japan

A08-01, ICICIC-2007-IS54-001

Decision Analysis of Fuzzy Partition Tree Applying Fuzzy Theory

Kimiaki Shinkai, Hajime Yamashita, and Shuya Kanagawa

Waseda University, Japan

A08-02, ICICIC-2007-IS54-002

Fuzzy Clustering Level Analysis Using AIC Method for Large Size Samples

Shuya Kanagawa, Hiroaki Uesu, Kimiaki Shinkai, Ei Tsuda, and Hajime Yamashita

Musashi Institute of Technology, Japan

A08-03, ICICIC-2007-IS54-003

Exchange Probability and Convergence Characteristics of Genes in Inversion in GA

Yoshitsugu Noto, Yoshinori Ueda, Masayuki Matsumoto, Akira Satoh, and Hajime Yamashita

Toyo University, Japan

A08-04, ICICIC-2007-0530

Semi-soft Decision Decoding Based on Correspondence between Error Patterns and the Relative Test Patterns

Hsin-Kun Lai and Erl-Huei Lu

Chang Gung University, Taiwan

A08-05, ICICIC-2007-1536

Mixture Experiment Design Using Artificial Neural Networks and Electromagnetism-like Mechanism Algorithm

Hsu-Hwa Chang and Teng-Yi Huang

National Taipei College of Business, Taiwan

A08-06, ICICIC-2007-1680

Speed Sensorless of an Induction Motor Using Self-tuning Fuzzy Identification

Chun-Jung Chen and Tien-Chi Chen

Kun Shan University, Taiwan

Session A09, ICICIC-2007-IS01

Human Information Technologies (II)

Session Chairs: Tsuneo Kuwabara, Kanagawa University, Japan
Shanjun Zhang, Kanagawa University, Japan

A09-01, ICICIC-2007-IS01-005

Influence of the Sensation of Vibration on Perception and Sensibility while Listening to Music
Tsuyoshi Ideguchi and Masato Muranaka
Kyushu Tokai University, Japan

A09-02, ICICIC-2007-IS01-006

Moving Picture Creation Based on Physical and Kansei Information of Music
Kazuhiro Koshi, Arisa Mikami, and Hiroaki Koga
Kumamoto National College of Technology, Japan

A09-03, ICICIC-2007-IS01-007

Human-Centered Intelligent Transport System ASSIST
Masaki Hayashi, Asami Nishioka, Kazuaki Goshi, and Katsuya Matsunaga
Kyushu Sangyo University, Japan

A09-04, ICICIC-2007-IS01-008

Development of Pen-based Note-Taking System for Blind People
Kazuyuki Ito, Kazuyuki Itoh, Kimiyasu Kiyota, and Nobuo Ezaki
National Rehabilitation Center for Persons with Disabilities, Japan

A09-05, ICICIC-2007-1142

Emerging Methods of Biometrics Human Identification
Michał Chora's
University of Technology & Life Sciences, Poland

A09-06, ICICIC-2007-1321

A Braille Recognition System by the Mobile Phone with Embedded Camera
Shanjun ZHANG and Kazuyoshi YOSHINO
Kanagawa University, Japan

Session A10, ICICIC-2007-IS02

Intelligent Informatics (II)

Session Chairs: Manabu Shimakawa, Kumamoto National College of Technology, Japan
Hugang Han, Prefectural University of Hiroshima, Japan

A10-01, ICICIC-2007-IS02-007

A Study on Particle Fuzzy Reasoning Method
Manabu Shimakawa
Kumamoto National College of Technology, Japan

A10-02, ICICIC-2007-IS02-008

T-S Fuzzy Controller in Consideration of Input Constraint
Hugang Han
Prefectural University of Hiroshima, Japan

A10-03, ICICIC-2007-IS02-009

Design of Wireless Data Communication System Based on PTR8000
Jianguo Wang, Yun Bai and Xiuyu Zhang
Northeast Dianli University, China

A10-04, ICICIC-2007-1375

Discrete-Time Feedback Error Learning for Unknown Nonlinear Systems
Sirisak Wongsura and Waree Kongprawechnon
Thammasat University, Thailand

A10-05, ICICIC-2007-1455

An Aggressive Feature Selection Method based on Rough Set Theory
Fangtao Li, Tao Guan, Xian Zhang, and Xiaoyan Zhu
Tsinghua University, China

A10-06, ICICIC-2007-1474

Bird Species Recognition by Comparing the HMMs of the Syllables
Chih-Hsun Chou, Chang-Hsing Lee and Hui-Wen Ni
Chung Hua University, Taiwan

Session A11, ICICIC-2007-IS55

Neuroimage and Modeling for Analysis of Higher Brain Function

Session Chairs: Keiichi Saito, Tokyo Denki University, Japan

A11-01, ICICIC-2007-IS55-001

Brain Activity Comparison of Different-Genre Video Game Players

Keiichi Saito, Naoki Mukawa, and Masao Saito
Tokyo Denki University, Japan

A11-02, ICICIC-2007-IS55-002

Brain Activation during Visuo-Spatial Memory Task: an fMRI Study

Takayasu Ando, Keiko Momose, Keita Tanaka, and Keiichi Saito
Waseda University, Japan

A11-03, ICICIC-2007-IS55-003

FMRI Analysis of the Effect of Background Image Combined with Face Image

Takamasa Shimada, Tadanori Fukami, and Yoichi Saito
Tokyo Denki University, Japan

A11-04, ICICIC-2007-IS55-004

Nonlinear Characteristics of Auditory Steady-State Responses in MEG

Keita Tanaka, Masaki Kawakatsu, and Iku Nemoto
Tokyo Denki University, Japan

A11-05, ICICIC-2007-0234

Experience with Quality Assurance Programming for Helical Tomotherapy

Pei-Ju Chao, Tsair-Fwu Lee, Stephen Wan Leung, Ying-Chen Chang, Tze-Liang Huang, and Fu-Min Fang
Chang Gung University, Taiwan

A11-06, ICICIC-2007-0357

Tracking of Moving Objects by Using a Low Resolution Image

Budi Sugandi, Hyoungseop Kim, Joo Kooi Tan, and Seiji Ishikawa
Kyushu Institute of Technology, Japan

Session A12, ICICIC-2007-IS11

Models and Algorithms for Optimization (I)

Session Chairs: Chao-Hsing Hsu, Chienkuo Technology University, Taiwan
Chun-Hua Chen, National Chung-Hsing University, Taiwan

A12-01, ICICIC-2007-IS11-001

Downlink Spatial Division Multiple Access (SDMA) Optimization of Smart Antennas by Phase-Amplitude Perturbations Based on Memetic Algorithms

Chao-Hsing Hsu, Wen-Jye Shyr, Chi-Fei Wu and Pao-Hua Chou
Chienkuo Technology University, Taiwan

A12-02, ICICIC-2007-IS11-002

Passivity Analysis for Uncertain Time-Varying Delayed Neural Networks with Neutral Type

Chin-Wen Liao and Chien-Yu Lu
National Changhua University of Education, Taiwan

A12-03, ICICIC-2007-IS11-004

Virtual Impedance Analyzer Design and Implementation

Kai-chao Yao, Chin-wen Liao, Li-ling Chao, and Fu-yu Lin
National Changhua University of Education, Taiwan

A12-04, ICICIC-2007-IS11-005

A Fast way to Design Adaptive Digital High-pass Filters

Kai-chao Yao, Chin-wen Liao, and Der-fa Chen
National Changhua University of Education, Taiwan

A12-05, ICICIC-2007-0942

Structure Damages Detection Based On Genetic Algorithm with Experimental Validation

Huijian Li, Changjun He, and Xiaozhan Yin
Yanshan University, China

A12-06, ICICIC-2007-0587

Dynamic Clone Population Based Artificial Immune System

Hongwei Dai, Yunyi Zhu, Shangce Gao, and Zheng Tang
University of Toyama, Japan

Session A13, ICICIC-2007-IS12

Quality Technology and Quantitative Management (I)

Session Chairs: Ming-Hung Shu, National Kaohsiung University of Applied Sciences, Taiwan

A13-01, ICICIC-2007-IS12-001

Reliability Monitoring and Performance Measuring for the Exponential Failure Process

Chien-Wei Wu, Chian-Shang Yang, and Ming-Hung Shu

Feng Chia University, Taiwan

A13-02, ICICIC-2007-IS12-002

A Comparative Study of the Monitoring Performance for Weighted Control Charts

Shuenn-Ren Cheng, Yan-Hung Yeh, and Ming-Hung Shu

National Kaohsiung University of Applied Sciences, Taiwan

A13-03, ICICIC-2007-IS12-003

Evaluating Lifetime Performance for the Pareto Model with Censored Information

Bi-Min Hsu, Bo-Sen Chen, and Ming-Hung Shu

Cheng Shiu University, Taiwan

A13-04, ICICIC-2007-IS12-004

Multi-attribute Fuzzy Time Series Based on Adaptive Expectation Model

Ching-Hsue Cheng, Jing-Wei Liu, and Cheng-Chih Hung

National Yunlin University of Science and Technology, Taiwan

A13-05, ICICIC-2007-IS12-005

Improving Relational Database Quality Based on Adaptive Learning Method for Estimating Null Value

Ching-Hsue Cheng, Liang-Ying Wei, and Tzu-Cheng Lin

National Yunlin University of Science and Technology, Taiwan

A13-06, ICICIC-2007-1053

Applying Web Technique in Market Segmentation and Product form Feature Analysis

Jih-Syongh Lin, Chien-Cheng Chang, and Shih-Yen Huang

Tatung University, Taiwan

Session A14, ICICIC-2007-IS13

Neuro-Fuzzy, Chaos Applications (I)

Session Chairs: Hirofumi Sasaki, Kyushu Tokai University, Japan
Toshihiro Kita, Kumamoto University, Japan

A14-01, ICICIC-2007-IS13-001

A Study of Neuro-fuzzy Learning Algorithm for Hardware Implementation
Kuniaki Fujimoto, Hirofumi Sasaki, Ren-Qi Yang, and Yan Shi
Kyushu Tokai University, Japan

A14-02, ICICIC-2007-IS13-002

A Fuzzy-Based Educational System to Assist Self-Learning for Pupils
Kei Eguchi, Shuji Kurebayashi, Hongbing Zhu, and Yukihiro Itoh
Shizuoka University, Japan

A14-03, ICICIC-2007-IS13-003

Performance of MC-DS-CDMA Systems Employing Chaotic Binary Sequences
Daisaburo Yoshioka and Akio Tsuneda
Sojo University, Japan

A14-04, ICICIC-2007-IS13-004

Sonification of Bifurcation and Chaos
Toshihiro KITA
Kumamoto University, Japan

A14-05, ICICIC-2007-0265

Stable Fuzzy Controller Design for a Nonlinear Helicopter Model
Hanif Tahersima, Mahdi Kaveh, and Alireza Fatehi
K.N.Toosi of Tech University, Iran

A14-06, ICICIC-2007-1513

Balanced Voltage Sag Correction Using Dynamic Voltage Restorer Based Fuzzy Polar Controller
Margo P., M. Heri P., M. Ashari, and T. Hiyama
Institute of Technology Sepuluh Nopember, Indonesia

Session A15, ICICIC-2007-IS15

Design and Implementation of Control Systems (I)

Session Chairs: Kai-Chao Yao, National Changhua University of Education, Taiwan

A15-01, ICICIC-2007-IS15-001

Single Input Virtual Digital Multi-meter Design and Implementation

Kai-chao Yao and Li-ling Chao

National Chang-hua University of Education, Taiwan

A15-02, ICICIC-2007-IS15-002

Adaptive Synchronization in Chaotic Rigid Body Motions

Heng-Hui Chen, Jiunn-Shean Chiang, and Yung Lung Lin

HsiuPing Institute of Technolog, Taiwan

A15-03, ICICIC-2007-IS15-003

Optimal Planning of Energy Conservation for Vocational High Schools in Taiwan

Chin-wen Liao, Kai-chao Yao, and Der-fa Chin

National Changhua University of Education, Taiwan

A15-04, ICICIC-2007-IS15-004

A Vector Controller Based on DSP for Wind Power Inverter-Excited Induction Generator

Ying-Shing Shiao and Ding-Tsair Su

National Changhua University of Education, Taiwan

A15-05, ICICIC-2007-IS15-005

Power System Fast Line Flow Calculation for Security Control by Sensitivity Factor

Shiuan-Tai Chen, Wei-Tzer Huang, Wen-Tsuan Lai, and Pin-Hui Shi

Chienkuo Technology University, Taiwan

A15-06, ICICIC-2007-0608

The Automatic Monitor and Control System of Radon Chamber

Shumin Zhou, Yueshun He, Bin Tang, and Jinyou Zhang

East China Institute of Technology, China

Session A16, ICICIC-2007-IS16

Agent Model for Human Expert

Session Chairs: **Masami Konishi, Okayama University, Japan**
Hossam A. Gabbar, Okayama University, Japan

A16-01, ICICIC-2007-IS16-001

Trend Analysis Technique for Real Time Fault Simulation in Integrated Fault Diagnostic System
Hossam A. Gabbar and Hanaa E. Sayed
Okayama University, Japan

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Pao-Hwa Yang, Heng-Hui Chen, Jiunn-Shean Chiang, and Hung-Bin Kuo

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M. Ashari, T. Hiyama, M. Pujiantara, H. Suryoatmojo, and M. Hery Purnomo
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Yoshifumi Oyama and Yoshitaka Narita
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Hsin-Nan Lin, Shian-Shyong Tseng, Jui-Feng Weng, Huan-Yu Lin, and Jun-Ming Su

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Gwo-Jen Hwang, Pei-Shan Tsai, Judy C. R. Tseng, Chia-Ching Lin, and Chin-Chung Tsai
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Yen-Jung Chen, Fan-Ray Kuo, Gwo-Jen Hwang, and Hui-Chun Chu
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Kuo-Liang Lin and Jyh-Bing Suen
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Jen-Yang Chen
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Mong-Fong, Horng, Tzer-Ming Liu, Yi-Hsiang Hung and Cheng-Yu Lin
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Hsien-Tsung Cho, Po-Cheng Huang, Ren-Hong Luo, and Yau-Hwang Kuo
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Yuh-Ming Cheng and Peng-Fei Chen
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Chieh Yow ChiangLin and Typhoon Wen
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Trong-Yen Lee, Yang-Hsin Fan, Shih-Chin Yen, Chia-Chun Tsai, and Rong-Shue Hsiao
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Yusuke Manabe and Basabi Chakraborty

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Softcomputing Approach for Stock Price Trend Forecasting from Multivariate Time Series

H. Watanabe, B. Chakraborty, and G. Chakraborty

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Anuradha Roy and Ricardo Leiva

The University of Texas at San Antonio, USA

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Seung-Joon Oh

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Chun-Li Tsai, Chien-Cheng Lee, and Yu-Chun Chiang
Yuan Ze University, Taiwan

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Chien-Cheng Lee, Yu-Chun Chiang, Hau-Ming Huang, and Chun-Li Tsai
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Locating License Plate Based on Edge Features of Intensity and Saturation Subimages
Chien-Chou Lin and Wen-Huei Huang
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A Heuristic Approach for Music Segmentation
Chuan-Wang Chang, Wen-Jie Ke, and Hewijin Christin Jiau
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Chuan-Yu Chang, Chin-Huang Chang, Chun-Hsi Li, and MuDer Jeng
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Radial Basis Function Neural Networks for LED Wafer Defect Inspection
Chuan-Yu Chang, Yung-Chi Chang, Chun-Hsi Li, and MuDer Jeng
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Shu-Ling Wang and Pei-Yi Wu
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Hsinyi Peng, Chien Chou, and Chun-Yu Chang
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Pi-Hsia Hung, Yuan Chen, Chien-Hsun Tseng, Pi-Fen Hou
National University of Tainan, Taiwan

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Shutao Zheng, Liwen Wang, Junwei Han, and Xiuhua Li
Harbin Institute of Technology, China

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Ji-qing Qiu and Jin-Fang Han
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An Effective Impulse Noise Detector of Switching Median Filter using Min-Max Working Window
Pei-Yin Chen, Chih-Yuan Lien, and Chang-Yan Tsai
National Cheng Kung University, Taiwan

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Implementation of an Efficient DWT Using a FPGA on a Real-time Platform
Chin-Fa Hsieh, Tsung-Han Tsai, Chih-Hung Lai, Shu-Chung Yi, and Mao-Hsu Yen
National Central University, Taiwan

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An Intelligent Impulse Noise Detection Method by Adaptive Subband-Based Multi-State Median Filtering
Thou-Ho (Chao-Ho) Chen, Chin-Pao Tsai, and Tsong-Yi Chen
National Kaohsiung University of Applied Sciences, Taiwan

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An Intelligent Video Segmentation Algorithm in Rainy Situation
Da-Jinn Wang, Yan-Ting Ye, Thou-Ho (Chao-Ho) Chen, and Tsong-Yi Chen
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Thou-Ho (Chao-Ho) Chen, Yu-Feng Lin, and Tsong-Yi Chen
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Oita University, Japan

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Session Chairs: Yuan-Long Jeang, yljeang@yahoo.com.tw

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Yuan-Long Jeang, Tzuu-shaang Wey, Hung-Yu Wang, Chih-Chung Tai, and Ching-Hua Chu

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Chao-Jung Cheng

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Hanyang University, Korea

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Yu-Fen Fu and Cheng-Seen Ho
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Hideya Takahashi, Manabu Chikayama, and Kenji Yamada
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Kenji Yamada and Kouhei Kishimoto
Hiroshima Institute of Technology, Japan

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Nobukazu Yoshikawa and Yuichi Sugawara
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S. Nakajima, M. Ikebuchi, and T. Toriu Ph.D
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Toshiaki Nagakura, Kenji Okazaki, Tomoki Michida, Motohiro Hirao, and Masako Kawai
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Chiung-Wei Huang, Chih-Yuan Chien, Chun-Nan Hsu, and Hahn-Ming Lee
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Ö. Ciftcioglu, M. S. Bittermann, and I. S. Sarayildiz
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Session Chairs: Anthony TS Ho, a.ho@surrey.ac.uk, University of Surrey, UK

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Anthony T.S. Ho

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C. Culnane, H. Trehanne, and A.T.S. Ho

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Hanane H.Mirza, Hien D.Thai, Yasunori Nagata, and Zensho Nakao

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National University of Kaohsiung, Taiwan

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Chun-Wei Lin, Tzung-Pei Hong, and Wen-Hsiang Lu
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Chen-Sen Ouyang, Cheng-Tsung Lee, and Shie-Jue Lee
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Cheng-Chang Lien, Chih-Chiang Tien, and Jia-Ming Shih
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Yoshifumi Kusunoki and Masahiro Inuiguchi
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Jiann-Gwo Doong and Ching-Song D. Wei
China University of Technology, Taiwan

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Diwan University, Taiwan

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Masahiko Horie, Shigeyoshi Nakajima, and Takashi Toriu
Osaka City University, Japan

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Robust Person Detection using Far Infrared Camera for Image Fusion

Thi Thi Zin, Hideya Takahashi, and Hiromitsu Hama
Osaka City University, Japan

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Atsuhiro Kojima, Shigeki Aoki, Takao Miyamoto, and Kunio Fukunaga
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Nobuhide Okabayashi, Hideya Takahashi, Tahito Aida, and Hiromitsu Hama
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Kebin Jia, Zhuoyi Lv, Jing Xie, Pengyu Liu, and Qing Zhu
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Session Chairs: Rey-Chue Hwang, I-Shou University, Taiwan
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Chih-Yung Chen, Chun-Jen Chen, Huang-Chu Hunag, Yu-Ju Chen, and Rey-Chue Hwang
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Shuming T. Wang, Zhi-Feng Xie, Tzu-Te Liu, and Rey-Chue Hwang
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Pin-Hsuan Weng, Yu-Ju Chen, Chuo-Yean Chang, and Rey-Chue Hwang
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The Identification of Ammonia Concentration by QNN

Chi-Yen Shen, Jen-Pin Yang, Rey-Chue Hwang, and De-Lu Wang
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I-Shou University, Taiwan

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Hiroki Tamura and Koichi Tanno
University of Miyazaki, Japan

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Session Chairs: Mingcong Deng, Okayama University, Japan
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Petri Net Solver for Semiconductor Manufacturing Plan
Ryota Maeno, Masami Konishi, Jun Imai, and Tatsushi Nishi
Okayama University, Japan

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Takao Sato, Akira Inoue, and Toru Yamamoto
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Qingjiu Huang and Kazumichi Oka
Tokyo Institute of Technology, Japan

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Zamri Omar, Cees Bil, and Robin Hill
UTHM University, Malaysia

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Yinghua Song, Yunkuan Wang, Li Gong, and Yan Yang
Institute of Automation Chinese Academy of Sciences, China

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Session Chairs: Hamid Reza Karimi, University of Bremen, Germany
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Hamid Reza Karimi and Huijun Gao
Islamic Azad University, Iran

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Zahra Aghaei and Ramin Amirifar
Tarbiat Modares University, Iran

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Robust $H\infty$ Controller Design for a Bilateral Teleoperation System via LMIs
M. Sha Sadeghi, H. R. Momeni, R. Amirifar, and S. Ganjefar
Tarbiat Modares University, Iran

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Junling Wang, Peng Shi, Huijun Gao, and Junming Wang
Harbin Engineering University, China

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Kou Yamada, Hideharu Yamamoto, and Nan Li
Gunma University, Japan

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Kou Yamada and Hiroshi Takenaga
Gunma University, Japan

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Yiming Chen, Yuhuan Cui, Yongping Zhang, and Fengxia Zeng
Yanshan University, China

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Xing-he Ma, Guo-jun Tan, Xiao-lan Wu, Yong-li Fang, Xiao Zhang, and Yao-fei Han
China University of Mining and Technology, China

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Jin-fang Han, Ji-qing Qiu, and Jian-hua Zhai
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Xiao-Yong Li, Zhen Han, and Chang-Xiang Shen
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Bailin Hang, Lijuan Jiang, and Lianming Sun
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Shengnan Zhang, Fang Ma, and Lianqiang Niu
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Sun-Yuan Hsieh and Tsong-Jie Lin
National Cheng Kung University, Taiwan

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Session Chairs: Po-Chang Ko, cobol@cc.kuas.edu.tw
Huei-Fu Lu, Aletheia University, Taiwan

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An Efficient Tree Method in Option Pricing
Szu-Lang Liao, Chin-Wen Wu, and Chou-Wen Wang
National Kaohsiung First University of Science and Technology, Taiwan

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Yungchih George Wang
National Kaohsiung University of Applied Sciences, Taiwan

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Huei-Wen Lin and Huei-Fu Lu
Aletheia University, Taiwan

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Meng-feng Yen, Tsung-nan Chou, Hung-chih Li, and Ying-yue Ho
National Cheng Kung University, Taiwan

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A Pricing Model of Fuzzy Rainbow Options
Jao-Hong Cheng and Chen-Yu Lee
National Yunlin University of Science and Technology, Taiwan

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Jing-Rung Yu and Hao-Hsiang Wang
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Applying Self-Organizing Map Network to Analyze Tourism Risk Perception and Travel Insurance: An Empirical Study

Pai-Lung Chou, Chao-Hsin Lin, Shuo-Fen Hsu, and Hsiang-Hsi Liu

National Kaohsiung First University of Science and Technology, Taiwan

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A Fast Multi-Objective Evolutionary Algorithm for Expensive Simulation Optimization Problems

Shin-Ming Guo

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Evolutionary Engineering Optimization Using Recursive Regional Neural Network and Genetic Algorithm

Jyh-Cheng Yu and Yu-Lung Tseng

National Kaohsiung First University of Science and Technology, Taiwan

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Intelligent Design of Automobile Fixtures with Genetic Algorithms

Tung-Kuan Liu, Hou-Yuan Lin, Chiu-Hung Chen, Jyh-Horng Chou, Jinn-Tsong Tsai, and Wen-Hsien Ho

National Kaohsiung First University of Science and Technology, Taiwan

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Chun-Jung Chen and Tien-Chi Chen

National Cheng Kung University, Taiwan

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Session Chairs: Juhng-Perng Su, National Yunlin University of Science and Technology, Taiwan

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Design of the Chaotic Secure Communication Time-delay System by LMIs Method

C. K. Huang, H. W. Shieh, S. K. Changchien, H. H. Nien, Y. Y. Tuan, and C. K. Chen
Chienkuo Technology University, Taiwan.

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Study of the Electrical and Magnetic Properties of MnZn Ferrite by Equivalent Electrical Elements

H. H. Nien, T. J. Liang, J. F. Chen, and S. K. Changchien
National Cheng Kung University, Taiwan

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Chun-Chieh Wang
Chienkuo Technology University, Taiwan

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Chi-Ying Liang and Shun-Wen Tan
Wu Feng Institute of Technology, Taiwan

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Design of a Sliding Mode Controller for a Water Tank Liquid Level Control System

Hong-Ming Chen, Zi-Yi Chen, and Juhng-Perng Su
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Toshiaki Kondo
Thammasat University, Thailand

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Hiroyuki Matsuura, Masahiro Nakano, Kazuharu Koide, and Nobuo Noda
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Zalili Musa, Tuty Asmawaty Abdul Kadir, and Rohani Abu Bakar

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Ping-Chen Lin, Po-Chang Ko, and Chun-Chung Yu
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Robust Optimal State-Feedback Controllers Design of Uncertain Nonlinear Dynamic Systems by Using Integrative Optimization Approach

Wen-Hsien Ho, Jinn-Tsong Tsai, Tung-Kuan Liu, and Jyh-Horng Chou

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Jinn-Tsong Tsai, Wen-Hsien Ho, Jyh-Horng Chou, and Tung-Kuan Liu

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Tsair-Fwu Lee, Ying-Chang Hsiao, Ming-Yuan Cho, Pei-Ju Chao, Tze-Liang Huang, and Horng-Yuan Wu

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Jun-ichi Kushida, Noriyuki Taniguchi, Yukinobu Hoshino, and Katsuari Kamei

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Jiun-Ming Wu, Ching-Huei Jaing, Ching-Huang Pan, and Chun-Chyuan Chen

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Manuel Jiménez-Lizárraga and Leonid Fridman
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Michael Basin, Dario Calderon-Alvarez, and Mikhail Skliar
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Yusuke Uozumi, Nobuhito Tonohata, Minoru Imamura, Masahiro Nakano, Hiroyuki Matsuura, Nobuo Noda, and Kazuharu Koide

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Dynamics of Magnetic Fluid Aimed for Local Drug Delivery Systems

Masahiro Nakano, Hiroyuki Matsuura, Dong-Ying Ju, Yusuke Uozumi, Kazuharu Koide, Nobuo Noda, Pei Bian, and Ken-ichi Makino

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Evolution Analysis of the Tiny Gene Duplication

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Jaeseok Choi, Junmin Cha, Junzo Watada, T. D. Mount, and R. Thomas
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Yu-Kuo Tseng, Wen-Yen Chou, Wen-Shyong Hsieh, and Bao-Rong Chang
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Buffer Analysis on TCP Connection Throughput in Fast Long-Distance Networks

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A Nonlinear Stock Valuation Using a Hybrid Model of Genetic Algorithm and Cubic Spline

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Adaptive Steering Controller to Improve Handling Stability of Combined Vehicles

 Qiang Wang, Masahiro Oya, Katsuhiro Okumura, and Toshihiro Kobayashi

 Kyushu Institute of Technology, Japan

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Shape Memory Alloy Actuator with Simple Adaptive Control

 Makoto Kumon, Ikuro Mizumoto, Zenta Iwai, and Akifumi Indou

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 Takayuki Kono, Toru Yamamoto, and Takao Hinamoto

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 Ikuro Mizumoto, Shinya Ohishi, and Zenta Iwai

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 Shiro Masuda

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A Simulation Study for the Operations Analysis of Dynamic Planning in Container Terminals Considering RTLS

Seok-Yong Lee and Gyu-Sung Cho
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A Study on the Development of a Process Designer for Logistics Process Modeling

Dongsoo Kim and Minsoo Kim
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Pei-Chan Chang, Chin-Yuan Fan, and Wei-Hsiu Huang
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Wind Aerator

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C22-02, ICICIC-2007-IS59-002

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Herchang Ay, Jyun-Jie Hsieh, and Wenkai Jiang

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Meei-Jy Shiau and Ching-yu Yan

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