

**1st KES International Symposium
on
Intelligent Decision Technologies 2009**

PROGRAM



KES IDT2009

Egret Himeji, Himeji Japan

22nd –24th April 2009

KES IDT09 Track Schedule

time / room	Room 1	Room 2	Room 3	Seminar B
April 23				
10:00-10:30	Opening Session			
10:30-11:30	Plenary Talk 1			
11:30-11:50	Coffee Break			
11:50-13:10	General Track(1)		Session(IS04,02)	
13:10-14:10	Lunch			
14:10-15:10	Plenary Talk 2			
15:10-16:30	General Track(2)		Session(IS03-1)	Session(IS06,05)
16:30-16:50	Coffee Break			
16:50-18:10	Session(IS08)		Session(IS03-2)	
19:00-21:00	Conference Dinner (JAL Hotel Himeji)			
time / room	Room 1	Room 2	Room 3	Seminar B
April 24				
09:20-10:20	Plenary Talk 3			
10:20-10:40	Coffee Break			
10:40-12:20	Session(IS11)	Session(IS07)	Session(IS10)	
12:20-13:20	Lunch			
13:20-14:40	Session(IS12-1)		General Track(3)	
14:40-15:00	Coffee Break			
15:00-16:20	Session(IS12-2)		General Track(4)	
16:20-16:30	Closing Session			

Symposium Program

April 22nd

- 16:30 – 18:00 Registration Egret Himeji Convention Center 4F
- 19:00 – 20:30 Reception School of Human Science.& Environment
University of Hyogo

April 23rd

- 09:20 – 15:00 Registration Egret Himeji Convention Center 3F
- 10:00 – 10:20 Opening Session Ai Messe Hall
Chair Prof. Kazumi Nakamatsu
- 10:30 – 11:30 Plenary Talk Ai Messe Hall
Chair Lakhmi C. Jain

Social Intelligence Design for Intelligent Decision Technologies

Prof. Toyoaki Nishida (Kyoto University)

- 11:30 – 11:50 Coffee Break Cooking Room, Egret Himeji 3F
- 11:50 – 13:10 General Track(1) Room 1,2
Chair Prof. Gloria .P. Wren

Neural Network Inputs Selection for Breast Cancer Cells Classification

Harsa Amylia Mat Sakim, Nuryanti Mohd. Salleh, Nor Hayati Othman

Cognitive Information Systems for Medical Pattern Analysis and Diagnosis Support Technologies

Lidia Ogiela, Ryszard Tadeusiewicz, Marek R. Ogiela

Development of an Intelligent Facial Expression Recognizer for Mobile Applications

Siu-Yeung Cho, Teik-Toe Teoh, Yok-Yen Nguwi

INTSOM: Gray Image Compression Using An Intelligent Self-Organizing Map

Cheng-Fa Tsai, Jiun-Huang Ju

11:50 – 13:10 Invited Session

Room 3

Decision and Health

Chair Prof. Sandra Bringay

Hypertension Detection using A Case-Based Reasoning Approach

*Kuang-Hung Hsua, Chaochang Chiub, Nan-Hsing Chiuc, Po-Chi Leeb,
Wen-Ko Chiud, Thu-Hua Liud, Yi-Chou Juangb, Chorng-Jer Hwangb,
Chi-I Hsue*

Improving Medical Database Consistency with Induced Trigger Rules

Nittaya Kerdprasop, Sirikanjana Pilabutr, Kittisak Kerdpraso

Invited Session

Room 3

Intelligent Data Processing Techniques for Decision Making

Chairs Prof. Lakhmi C.Jain

Prof. C.P.Lim

A New Pruning Technique for the Fuzzy ARTMAP Neural Network and Its Application to Medical Decision Support

Shahrul N.Y, Lakhmi Jain, C.P. Lim

Image Color Space Transform with Enhanced KLT

Roumen Kountchev, Roumiana Kountcheva

13:10 – 14:10 Lunch

Restaurant Mille, Egret Himeji 4F

14:10 – 15:10 Plenary Talk

Ai Messe Hall
Chair Prof. Lakhmi C.Jain

Advanced Paradigms in Decision Making Under Hybrid Uncertainty

Prof. Junzo Watada (Waseda University)

15:10 – 16:30 General Track(2)

Room 1,2
Chair Prof. Gloria.P.Wren

Learning a Selection Problem of Investment Projects and Capital Structure through Business Game

Yasuo Yamashita, Hiroshi Takahashi, Takao Terano

Evolution Prospecction

Lu'is Moniz Pereira, Han The Anh

A Proposal of Context-Aware Service Composition Method Based on Analytic Hierarchy Process

Yusuke Koumoto, Hidetoshi Nonaka, Takuto Yanagida

Flexible Widget Layout Formulated as Fuzzy Constraint Satisfaction Problem

Takuto Yanagida, Hidetoshi Nonaka

15:10 – 16:30 Invited Session

Room 3

Decision Making in a Dynamic Environment(1)

Chair Prof. Jeffery Tweedal

Interoperable Intelligent Agents in a Dynamic Environment

Mohammad Khazab, Jeffrey Tweedale, Lakhmi Jain

Multilingual Agents in a Dynamic Environment

Jeffrey Tweedale, Lakhmi Jain

Defining a Decision-Support Framework in AC³M

Angela Consoli, Jeff Tweedale, Lakhmi Jain

An Intelligent Decision Support System using Expert Systems in a MAS

Kamal Haider, Jeffrey Tweedale, Lakhmi Jain

15:10 – 16:30 Invited Session

Seminar Room B

Non-Classical Logics for Intelligent Decision Technologies

Chair Prof. Seiki Akama

Output Enhancement of Impulse Noise Filters by Edge Detection and Neuro-Fuzzy Processing

M. Emin Yuksel, Yakup Yuksel, Mustafa Alci

An Algebraic Version of the Monadic System C1

Jair Minoro Abe, Kazumi Nakamatsu, Seiki Akama

Some Three-Valued Temporal Logics for Future Contingents

Seiki Akama, Kazumi Nakamatsu, Jair Minoro Abe

Intoduction to Plausible Reasoning Based on EVALPSN

Kazumi Nakamatsu, Toshiaki Imai, Jair Minoro. Abe, Seiki Akama

Invited Session

Seminar Room B

Intelligent Systems: Foundations and Applications

Chair Jair M. Abe

Factorization of Sparse Bayesian Networks

Julio Michael Stern, Ernesto Coutinho Colla

Incorporating Hopfield Neural Networks into Ant Colony System for Traveling Salesman Problem

Yu-Lin Weng, Chou-Yuan Lee, Zne-Jung Lee

Analysis and Diagnosis of Cardiovascular Diseases through the Paraconsistent Annotated Logic

*Joao Inacio da Silva Filho, Gilberto A. T. A. Holms, Gabriel V. Hurtado,
Dorotea V. Garcia*

Hierarchical Forecasting with Polynomial Nets

M.S.Lauretto, F.Nakano, C.A.B.Pereira, J.M.Stern

Autonomous Mobile Robot Emmy III

*Claudio Rodrigo Torres, Jair Minoro Abe, Germano Lambert-Torres,
João Inácio da Silva Filho, Helga Gonzaga Martins*

16:30 – 16:50 Coffee Break

16:50 – 18:10 Invited Session

Room 1,2

IDT Based Anomaly Detection

Chairs Prof. Wei-Chung Teng

Anomaly Foreground Detection through Background Learning in Video Surveillance

Cheng-Yuan Tang, Yi-Leh Wu, Shih-Pin Chao, Wen-Chao Chen, Pan-Lan Chen

Adaptive Alarm Filtering by Causal Correlation Consideration in Intrusion Detection

*Heng-Sheng Lin, Ching-Hao Mao, Hsing-Kuo Pao, Hahn-Ming Lee,
Tsuhan Chen, Yuh-Jye Lee*

Anomaly Detection via Over-sampling Principal Component Analysis

Yi-Ren Yeh, Zheng-Yi Lee, Yuh-Jye Lee

16:50 – 18:10

Invited Session : Decision Making in a Dynamic Environment(2) Room 3

Chair Prof. Jeffery Tweedal

Decentralized Real-Time Control Algorithms for an AGV System

*Alexander Klaas, Mark Aufenanger, Nando Ruengener,
Wilhelm Dangelmaier*

Adaptive Decision Support for Dynamic Environments

Gloria Phillips-Wren

Evaluation of the Continuous Wavelet Transform for Feature Extraction of Metal Detector Signals in Automated Target Detection

Minh Dao-Johnson Tran, Canicious Abeynayake

A Multi-Agent Wideband Signal Detector

John Hefferan

19:00 --- 21:00 Conference Dinner

JAL Hotel Himeji 2F

April 24th

09:10 – 11:00 Registration

Egret Himeji 3F

09:20 – 10:20 Plenary Talk

Chair Prof. Lakhmi .C.Jain

Ai Messe Hall

Scott-Montague Frames and Decision Support

Prof. Tetsuya.Murai, (Hokkaido University)

10:20 – 10:40 Coffee Break

10:40 – 12:20 Invited Session

Room 1

Rough Sets and Decision Making

Chairs Prof. Yasuo Kudo

Prof. Masahiro Inuiguchi

Prof. Tetsuya Murai

An Aspect of Decision Making in Rough Non-deterministic Information Analysis

Hiroshi Sakai, Kohei Hayashi, Hiroshi Kimura, Michinori Nakata

A Value for Multi-alternative Games with Restricted Coalitions under the Equally Divided Spoils Assumption

Satoshi Masuya, Masahiro Inuiguchi, Teruhisa Nakai

Variable Accessibility Models for Modal Logic on Topological Spaces

Tetsuya Murai, Seiki Ubukata, Yasuo Kudo

A Heuristic Algorithm for Selective Calculation of a Better Relative Reduct in Rough Set Theory

Yasuo Kudo, Tetsuya Murai

Rule Induction for Decision Tables with Ordered Classes

Yoshifumi Kusunoki, Masanori Inoue, Masahiro Inuiguchi

10:40 –12:20 Invited Session

Room 2

Knowledge Based Interface Systems

Chairs Prof. Yuji Iwahori

Prof. Naohiro Ishii

Rough Set Reducts Based Classification

Naohiro Ishii, Yongguang Bao, Yuta Hoki, Hidekazu Tanaka

Heterogeneous Multi-Agents Learning using Genetic Network Programming with Immune Adjustment Mechanism

Hirotaaka Itoh, Naoki Ikeda, Kenji Funahashi

Analysis of Asymmetric Friendship among Students from Class Attendance Records

Nobuhiro Inuzuka, Toshitaka Kondo, Shuhei Yamamoto

Updating Background Image for Motion Tracking Using Particle Filter

Yuji Iwahori, Wataru Kurahashi, Shinji Fukui, Robert J. Woodham

Driver Assistance Systems to Rate Drowsiness: a Preliminary Study

Md. Shoaib Bhuiyan

10:40 – 12:20 Invited Session

Room 3

Knowledge-Based Software Engineering and Medical Decision Support Systems

Chairs Prof. Po-Hsun Cheng
Prof. Heng-Shuen Chen
Prof. Jer-Junn Luh

Towards a New Medical Decision Support System with Bio-inspired Interpretive Structural Modelling

Ikno Kim, Junzo Watada

Construct an Approximation Decision Model of Medical Record by Neural Networks - The Ophthalmology Department as an Example

Yaw-Jen Lina, Chin-Fanbc, Cheng-Chin Huangc, Cheng-Yu Fanc

A Multi Model Voting Enhancement for Newborn Screening Healthcare Information System

*Sung-Huai Hsieh, Po-Hsun Cheng, Sheau-Ling Hsieh, Po-Hao Chen,
Yung-Ching Weng, Yin-Hsiu Chien, Zhenyu Wang, Feipei Lai*

Design and Implementation of Mobile Electronic Medication Administration Record

*Sung-Huai Hsieh, I-Ching Hou, Ching-Ting Tan, Po-Chao Shen,
Hui-Chu Yu, Sheau-Ling Hsieh, Po-Hsun Cheng, Feipei Lai*

Customer Relationship Management in Healthcare Service – An Integrated DSS Framework for Patient Loyalty

Chi-I Hsu, Pei-Lun Hsu, Chaochang Chiu

Applying Fuzzy TOPSIS Approach for Evaluating RFID System Suppliers in Healthcare Industry

Tien-Chin Wang, Hsien-Da Lee, Po-Hsun Cheng

12:30 – 13:20 Lunch

Restaurant Mille
Egret Himeji 4F

13:20 – 14:40 Invited Session

Room 1,2

Decision Making in a Changing Financial and Social Environment(1)

Chairs Prof. Mieko Yamawaki-Tanaka
Prof. Akihiro Sato

Dynamic Index Fund Optimization by a Heuristic GA Method Based on Correlation Coefficients

Yukiko Orito, Hisashi Yamamoto, Yasuhiro Tsujimura, Yasushi Kambayashi

Simulation Modeling of Emergence-of-Money Phenomenon by Doubly Structural Network

Masato Kobayashi, Masaaki Kunigami, Satoru Yamadera, Takashi Yamada, Takao Terano

Detecting Environmental Changes through High-resolution Data of Financial Markets

Aki-Hiro Sato

13:20 – 14:40 General Track(3)

Room 3

Chair Prof. Gloria P. Wren

Modelling Probabilistic Causation in Decision Making

Lu'is Moniz Pereira, Carroline Kencana Ramli

A Library Marketing System for Decision Making

Toshiro Minami

Analysis of Four Wheeled Flexible Joint Robotic Arms with Application on Optimal Motion Design

M.H. Korayem, H. N. Rahimi, A. Nikoobin

Finite Element Method and Optimal Control Theory for Path Planning of

Elastic Manipulators

M. Haghpanahi, M. H. Korayem, H. N. Rahimi, A. Nikoobin

14:40 – 15:00 Coffee Break

15:00 – 16:20 Invited Session

Room 1,2

Decision Making in a Changing Financial and Social Environment(2)

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Chairs Prof. Mieko Yamawaki-Tanaka

Prof. Akihiro Sato

A Stochastic Model for Pareto's Law and the Log-normal Distribution under the Detailed Balance and Extended-Gibrat's Law

Shouji Fujimoto, Masashi Tomoyose, Atushi Ishikawa

Effect of Reputation on the Formation of Cooperative Network of Prisoners

Mieko Tanaka-Yamawaki, Taku Murakami

Bayesian Estimation of GARCH Model with an Adaptive Proposal Density

Tetsuya Takaishi

Elucidation of Industrial Structure of the Japanese Economy through Visualization and Community Analysis

H. Iyetomi, K. Kamehama, T. Iino, Y. Ikeda, T. Ohnishi, H. Takayasu,

M. Takayasu

15:00 – 16:20 General Track(4)

Room 3

Chair Prof. Gloria P. Wren

Belief-based Stability in Non-transferable Utility Coalition Formation with Uncertainty

Chi-Kong Chan, Ho-fung Leung

Side-Effect Inspection for Decision Making

Lu'is Moniz Pereira, Alexandre Miguel Pinto

Knowledge Mining with a Higher-Order Logic Approach

Kittisak Kerdprasop, Nittaya Kerdprasop

16:20 – 16:30 Closing Session

Ai Messe Hall
Chair Prof. Kazumi Nakamatsu

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