

# Conference schedule

| <b>June 3 (Tue.), 2014</b> |                          |
|----------------------------|--------------------------|
| 15:00 – 17:00              | <b>Registration (1F)</b> |
|                            |                          |

| <b>June 4 (Wed.), 2014</b> |                                                                                               |                                                                       |                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------|
| 09:00 - 09:30              | <b>Opening (20F)</b>                                                                          |                                                                       |                                                           |
| 09:30 - 10:30              | <b>Professor Daniel S. Yeung (20F)</b><br>Sensitivity based Image Filtering for Multi-Hashing |                                                                       |                                                           |
| 10:30 - 10:50              | <b>Tea Break (20F)</b>                                                                        |                                                                       |                                                           |
| 10:50 - 12:20              | <b>Room A (4F)</b>                                                                            | <b>Room B (4F)</b>                                                    | <b>Room C (4F)</b>                                        |
|                            | SA1:<br>Agent Technology                                                                      | SB1:<br>Intelligent Industrial<br>Applications and<br>Control Systems | SC1:<br>Media Processing (1)                              |
| 12:20 - 13:30              | <b>Lunch (20F)</b>                                                                            |                                                                       |                                                           |
| 13:30 - 15:30              | <b>Room A (4F)</b>                                                                            | <b>Room B (4F)</b>                                                    | <b>Room C (4F)</b>                                        |
|                            | SA2:<br>Smart Data-Mining in<br>Industrial Applications                                       | SB2:<br>Multi-objective<br>Optimization (1)                           | SC2:<br>Computational<br>Intelligence and<br>Applications |
| 15:30 - 15:50              | <b>Tea Break (4F)</b>                                                                         |                                                                       |                                                           |
| 15:50 - 17:50              | <b>Room A (4F)</b>                                                                            | <b>Room B (4F)</b>                                                    | <b>Room C (4F)</b>                                        |
|                            | SA3:<br>Pattern Recognition<br>and Machine Learning                                           | SB3:<br>Multi-objective<br>Optimization (2)                           | SC3:<br>Knowledge<br>Management and<br>Applications       |
| 18:00 - 20:00              | <b>Reception Party (1F)</b>                                                                   |                                                                       |                                                           |
|                            |                                                                                               |                                                                       |                                                           |

| <b>June 5 (Thu.), 2014</b> |                                                                                        |                               |                                                                 |
|----------------------------|----------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------|
| 09:00 - 10:00              | <b>Professor John Roddick</b><br>Ontologies in Data Management and Data Mining (20F)   |                               |                                                                 |
| 10:00 - 10:10              | <b>Tea Break (20F)</b>                                                                 |                               |                                                                 |
| 10:10 - 11:10              | <b>Professor Han-Chieh Chao</b><br>Terrain Definition for WSN Power Conservation (20F) |                               |                                                                 |
| 11:10 - 11:20              | <b>Tea Break (4F)</b>                                                                  |                               |                                                                 |
| 11:20 - 12:20              | <b>Room A (4F)</b>                                                                     | <b>Room B (4F)</b>            | <b>Room C (4F)</b>                                              |
|                            | SA4:<br>Agent Technology (2)                                                           | SB4:<br>Smart Living (1)      | SC4:<br>Media Processing (2)                                    |
| 12:20 - 13:30              | <b>Lunch (20F)</b>                                                                     |                               |                                                                 |
| 13:30 - 15:30              | <b>Room A (4F)</b>                                                                     | <b>Room B (4F)</b>            | <b>Room C (4F)</b>                                              |
|                            | SA5:<br>Innovations in<br>Intelligent Systems<br>and Applications (1)                  | SB5:<br>Smart Living (2)      | SC5:<br>Optimization in<br>Industrial<br>Applications           |
| 15:30 - 15:50              | <b>Tea Break (4F)</b>                                                                  |                               |                                                                 |
| 15:50 - 17:50              | <b>Room A (4F)</b>                                                                     | <b>Room B (4F)</b>            | <b>Room C (4F)</b>                                              |
|                            | SA6:<br>Innovations in<br>Intelligent Systems<br>and Applications (2)                  | SB6:<br>Information Retrieval | SC6:<br>Intelligence Systems<br>for E-Commerce and<br>Logistics |
| 18:00 - 20:00              | <b>Conference Banquet (20F)</b>                                                        |                               |                                                                 |
|                            |                                                                                        |                               |                                                                 |

| <b>June 6 (Fri.), 2014</b> |                                                                                                                  |                                                                       |                                                   |
|----------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------|
| 09:00 - 10:00              | <b>Professor Ce Zhu</b><br>3D-TV System with Depth-Image-Based Rendering: Towards High Quality 3D Video (20F)    |                                                                       |                                                   |
| 10:00 - 10:10              | <b>Tea Break (20F)</b>                                                                                           |                                                                       |                                                   |
| 10:10 - 11:10              | <b>Professor Tzung-Pei Hong</b><br>Applying Computational Intelligence Techniques to Knowledge Engineering (20F) |                                                                       |                                                   |
| 11:10 - 11:20              | <b>Tea Break (4F)</b>                                                                                            |                                                                       |                                                   |
| 11:20 - 12:20              | <b>Room A (4F)</b>                                                                                               | <b>Room B (4F)</b>                                                    | <b>Room C (4F)</b>                                |
|                            | SA7:<br>Data Mining and QA<br>Technology                                                                         | SB7:<br>Innovations in<br>Intelligent Systems<br>and Applications (3) | SC7<br>Data Mining and<br>Industrial Applications |
| 12:20 - 13:30              | <b>Lunch (20F)</b>                                                                                               |                                                                       |                                                   |
| 13:30 - 15:30              | <b>Room A (4F)</b>                                                                                               |                                                                       | <b>Room B (4F)</b>                                |
|                            | SA8:<br>Machine Learning                                                                                         |                                                                       | SB8:<br>Post Presentation                         |
| 15:30 - 15:50              | <b>Tea Break (4F)</b>                                                                                            |                                                                       |                                                   |
| 15:50 - 17:50              | <b>Boat on Love River</b>                                                                                        |                                                                       |                                                   |
| 18:00 - 20:00              | <b>Farewell Party (2F)</b>                                                                                       |                                                                       |                                                   |
|                            |                                                                                                                  |                                                                       |                                                   |

# Conference Program

## June 3 (Tue.), 2014

Registration ..... 15:00 – 17:00

## June 4 (Wed.), 2014

Opening ..... 09:00 - 09:30

Keynote Speech I ..... 09:30 - 10:30

Tea Break ..... 10:30 - 10:50

Sessions SA1-SB1-SC1 ..... 10:50 - 12:20

Lunch ..... 12:20 - 13:30

Sessions SA2-SB2-SC2 ..... 13:30 - 15:30

Tea Break ..... 15:30 - 15:50

Sessions SA3-SB3-SC3 ..... 15:50 - 17:50

Reception Party ..... 18:00 - 20:00

## June 5 (Thu.), 2014

Keynote Speech II ..... 09:00 - 10:00

Tea Break ..... 10:00 - 10:10

Keynote Speech III ..... 10:10 - 11:10

Tea Break ..... 11:10 - 11:20

Sessions SA4-SB4-SC4 ..... 11:20 - 12:20

Lunch ..... 12:20 - 13:30

Sessions SA5-SB5-SC5 ..... 13:30 - 15:30

Tea Break ..... 15:30 - 15:50

Sessions SA6-SB6-SC6 ..... 15:50 - 17:50

Conference Banquet ..... 18:00 - 20:00

## June 6 (Fri.), 2014

Keynote Speech IV ..... 09:00 - 10:00

Tea Break ..... 10:00 - 10:10

Keynote Speech V ..... 10:10 - 11:10

Tea Break ..... 11:10 - 11:20

Sessions SA7-SB7-SC7 ..... 11:20 - 12:20

Lunch ..... 12:20 - 13:30

Session SA8-SB8 ..... 13:30 - 15:30

Tea Break ..... 15:30 - 15:50

Boat on Love River ..... 15:50 - 17:50

Farewell Party ..... 18:00 - 20:00

# Session List

## *6/4 10:50 - 12:20*

SA1: Agent Technology (1)

SB1: Intelligent Industrial Applications and Control Systems

SC1: Media Processing (1)

## *6/4 13:30 - 15:30*

SA2: Smart Data-Mining in Industrial Applications

SB2: Multi-objective Optimization (1)

SC2: Computational Intelligence and Applications

## *6/4 15:50 - 17:50*

SA3: Pattern Recognition and Machine Learning

SB3: Multi-objective Optimization (2)

SC3: Knowledge Management and Applications

## *6/5 11:20-12:20*

SA4: Agent Technology (2)

SB4: Smart Living (1)

SC4: Media Processing (2)

## *6/5 13:30 - 15:30*

SA5: Innovations in Intelligent Systems and Applications (1)

SB5: Smart Living (2)

SC5: Optimization in Industrial Applications

## *6/5 15:50 - 17:50*

SA6: Innovations in Intelligent Systems and Applications (2)

SB6: Information Retrieval

SC6: Intelligence Systems for E-Commerce and Logistics

## *6/6 11:20-12:20*

SA7: Data Mining and QA Technology

SB7: Innovations in Intelligent Systems and Applications (3)

SC7: Data Mining and Industrial Applications

## *6/6 13:30 - 15:30*

SA8: Machine Learning

**SA1 6/4 10:50 - 12:20 Room A**

**Agent Technology (1)**

**Chairs: Hsieh, Fu-Shiung, Mark Hoogendoorn**

**SA1-01 (IEA-AIE 2014-0102)**

*Multi-agent Learning for Winner Determination in Combinatorial Auctions*

Hsieh, Fu-Shiung and Liao, Chi-Shiang

Chaoyang University of Technology, Taiwan

**SA1-02 (IEA-AIE 2014-0160)**

*Agent-Based Modeling of Farming Behavior A Case Study for Milk Quota Abolishment*

Diti Oudendag, Mark Hoogendoorn and Roel Jongeneel

Wageningen UR, The Hague, Netherlands

VU University Amsterdam, Netherlands

**SA1-03 (IEA-AIE 2014-0344)**

*Scheduling Patients in Hospitals based on Multi-agent Systems*

Hsieh, Fu-Shiung and Lin, Jim-Bon

Chaoyang University of Technology, Taiwan

**SB1: 6/4 10:50 - 12:20 Room B**

**Intelligent Industrial Applications and Control Systems**

**Chair: Armon Toubman**

**SB1-01 (IEA-AIE 2014-0207)**

*Automatic Database Monitoring for Process Control Systems*

Hiromasa Kaneko and Kimito Funatsu

University of Tokyo, Japan

**SB1-02 (IEA-AIE 2014-0264)**

*Fuzzy Logic Guidance Control Systems for Autonomous Navigation Based on Omnidirectional Sensing*

Danilo Cáceres Hernández, Van-Dung Hoang, Alexander Filonenko and Kang-Hyun Jo

Intelligent Systems Laboratory, Graduate School of Electrical Engineering, University of

Ulsan, South Korea

**SB1-03 (IEA-AIE 2014-0355)**

*Dynamic Scripting with Team Coordination in Air Combat Simulation*

Armon Toubman, Jan Joris Roessingh, Pieter Spronck, Aske Plaat, and Jaap van den Herik

National Aerospace Laboratory, Department of Training, Netherlands

Tilburg University, Netherlands

**SB1-04 (IEA-AIE 2014-0542)**

*Proposal of Design Process of Customizable Virtual Working Spaces*

Darío Rodríguez and Ramón García-Martínez

National University of Lanus, Argentina

National University of La Plata, Argentina

**SC1: 6/4 10:50 - 12:20 Room C**

**Media Processing (1)**

**Chair: Wong, Hsien-Lun**

**SC1-01 (IEA-AIE 2014-0134)**

*A Method of Bubble Removal for Computer-Assisted Diagnosis of Capsule Endoscopic Images*

Masato Suenaga, Yusuke Fujita, Shinichi Hashimoto, Terai Shuji, Isao Sakaida and Yoshihiko Hamamoto

Yamaguchi University, Japan

**SC1-02 (IEA-AIE 2014-0137)**

*Comparative Study of Classifiers for Prediction of Recurrence of Liver Cancer Using Binary Patterns*

Hiroyuki Ogihara, Yusuke Fujita, Norio Iizuka, Masaaki Oka and Yoshihiko Hamamoto

Yamaguchi University, Japan

**SC1-03 (IEA-AIE 2014-0190)**

*Using Artificial Neural Back-Propagation Network Model to Detect the Outliers in Semiconductor Manufacturing Machines*

Yang, Keng-Chieh, Huang, Chia-Hui, Yang, Conna, Chao, Pei-Yao and Shih, Po-Hong

Hwa Hsia Institute of Technology, Taiwan

National Taipei College of Business, Taiwan

National Chiao Tung University, Taiwan

**SC1-04 (IEA-AIE 2014-0464)**

*Transferring Vocal Expression of F0 Contour using Singing Voice Synthesizer*

Yukara Ikemiya, Katsutoshi Itoyama and Hiroshi G. Okuno

Kyoto University, Japan



**SA2 6/4 13:30 - 15:30 Room A**  
**Smart Data-Mining in Industrial Applications**  
**Chair: Ryutaro Ichise**

**SA2-01 (IEA-AIE 2014-0097)**

*Predicting Citation Counts for Academic Literature using Graph Pattern Mining*  
Nataliia Pobiedina and Ryutaro Ichise  
Vienna University of Technology, Austria  
National Institute of Informatics, Japan

**SA2-02 (IEA-AIE 2014-0154)**

*Co-Evolutionary Learning for Cognitive Computer Generated Entities*  
Xander Wilcke, Mark Hoogendoorn and Jan Joris Roessingh  
Department of Training, Simulations, and Operator Performance Anthony Fokkerweg 2,  
Netherlands  
VU University Amsterdam, Netherlands

**SA2-03 (IEA-AIE 2014-0177)**

*A Novel Method for Predictive Aggregate Queries over Data Streams in Road Networks based on STES Methods*  
Feng, Jun, Shi, Yaqing, Tang, Zhixian, Rui, Caihua and Min, Xurong  
Hohai University, China  
PLA University, China  
Nanjing Labor and Social Security Bureau, China

**SA2-04 (IEA-AIE 2014-0428)**

*BDI Forecasting based on Fuzzy Set Theory, Grey System and ARIMA*  
Wong, Hsien-Lun  
Minghsin University of Science and Technology, Taiwan

**SA2-05 (IEA-AIE 2014-0443)**

*Deriving Processes of Information Mining Based on Semantic Nets and Frames*  
Sebastian Martins, Darío Rodríguez and Ramón García-Martínez  
National University of Lanús, Argentina  
National University of La Plata, Argentina

**SA2-06 (IEA-AIE 2014-0550)**

*Efficient Search of Cosine and Tanimoto Near Duplicates among Vectors with Domains Consisting of Zero, a Positive Number and a Negative Number*  
Marzena Kryszkiewicz and Przemyslaw Podsiadly  
Warsaw University of Technology, Poland

**SB2 6/4 13:30 - 15:30 Room B**  
**Multi-objective Optimization (1)**  
**Chair: Shih, Chien-Chou**

**SB2-01 (IEA-AIE 2014-0025)**

*Multiobjective Optimization of Microchannels with Experimental Convective Heat Transfer Coefficient of Liquid Ammonia*

Normah Mohd-Ghazali, Oh Jong-Taek, Nuyen Ba Chien, Kwang-Il Chi, Nor Atiqah Zolpakar and Robiah Ahmad

Universiti Teknologi Malaysia, Malaysia

Chonnam National University, South Korea

UTM Razak School of Engineering and Advanced Technology, Malaysia

**SB2-02 (IEA-AIE 2014-0035)**

*Multi-Objective Dual-Sale Channel Supply Chain Network Design Based on NSGA-II*

Hsieh, Chia-Lin, Liao, Shu-Hsien and Ho, Wei-Chung

Aletheia University, Taiwan

Tamkang University, Taiwan

**SB2-03 (IEA-AIE 2014-0071)**

*A Multimodal Approach to Exploit Similarity in Documents*

Matteo Cristani and Claudio Tomazzoli

University of Verona, Italy

**SB2-04 (IEA-AIE 2014-0084)**

*Deal with Linguistic Multi-Criteria Decision Making Problem Based on Sequential Multi-Person Game Methodology*

Chen, Chen-Tung, Pai, Ping Feng and Hung, Wei Zhan

National United University, Taiwan

National Chi Nan University, Taiwan

**SB2-05 (IEA-AIE 2014-0093)**

*An Evolutionary-Based Optimization for a Multi-Objective Blood Banking Supply Chain Model*

Hsieh, Chia Lin

Aletheia University, Taiwan

**SC2 6/4 13:30 - 15:30 Room C**  
**Computational Intelligence and Applications**  
**Chair: Yan, Li-Jun**

**SC2-01 (IEA-AIE-2014-IS05-01)**

*Driving Behavior Analysis of Multiple Information Fusion Based on SVM*  
Pan, Jeng-Shyang, Lu, Kaixuan, Chen, Shi-Huang and Yan, Lijun  
Harbin Institute of Technology, China  
Shu-Te University, Taiwan

**SC2-02 (IEA-AIE-2014-IS05-02)**

*Constructing Support Vector Machines Ensemble Classification Method for Imbalanced Datasets Based on Fuzzy Integral*  
Chen, Pu and Zhang, Dayong  
Harbin Institute of Technology, China

**SC2-03 (IEA-AIE-2014-IS05-03)**

*Distortion-based Heuristic Sensitive Rule Hiding Method– the Greedy Way*  
Cheng, Peng, Chu, Shu-Chuan, Lin, Chun-Wei and John F. Roddick  
Southwest University, China  
Harbin Institute of Technology, China  
Flinders University, Australia

**SC2-04 (IEA-AIE-2014-IS05-04)**

*Parallelized Bat Algorithm with a Communication Strategy*  
Tsai, Cheng-Fu, Thi-Kien Dao, Yang, Wei-Jie, Trong-The Nguyen and Pan, Tien-Szu  
National Kaohsiung University of Applied Sciences, Taiwan

**SC2-05 (IEA-AIE 2014-0021)**

*A Genetic Algorithm Application on Wireless Sensor Networks*  
Haiyi Zhang and Yifei Jiang  
Acadia University, Canada

**SC2-06 (IEA-AIE-2014-IS05-06)**

*On the Adaptability of Using CISCO Networking Course Materials – A Case Study in TAIWAN*  
Huang, Yen-Chieh and Chu, Chih-Ping  
National Cheng-Kung University, Taiwan  
Meiho University, Taiwan

**SA3 6/4 15:50 - 17:50 Room A**  
**Pattern Recognition and Machine Learning**  
**Chair: Trong-The Nguyen**

**SA3-01 (IEA-AIE-2014-IS04-02)**

*A Novel Watermarked Multiple Description Scalar Quantization Coding Framework*  
Tang, Linlin, Pan, Jeng-Shyang and Li, Junbao  
Harbin Institute of Technology, China

**SA3-02 (IEA-AIE-2014-IS04-03)**

*Genetic Generalized Discriminant Analysis and Its Applications*  
Yan, Lijun, Tang, Linlin, Chu, Shu-Chuan, Zhu, Xiaorui, Li, Jun-Bao and Guo, Xiaochuan  
Harbin Institute of Technology, China  
Flinders University, Australia

**SA3-03 (IEA-AIE-2014-IS04-05)**

*Assessing the Availability of Information Transmission in Online Social Networks*  
Zhang, Dayong and Chen, Pu  
Harbin Institute of Technology

**SA3-04 (IEA-AIE-2014-IS04-06)**

*Feature Curve Metric for Image Classification*  
Feng, Qingxiang, Pan, Jeng-Shyang and Pan, Tien-Szu  
Harbin Institute of Technology, China  
National Kaohsiung University of Applied Sciences, Taiwan

**SA3-05 (IEA-AIE-2014-IS04-07)**

*Multiscale Slant Discriminant Analysis for Classification*  
Jiao, QingLiang  
Heihe University, China

**SA3-06 (IEA-AIE-2014-IS04-08)**

*A Novel Feature Extraction Algorithm in Shearlets Domain*  
Su, Dan  
Heihe University, China

**SA3-07 (IEA-AIE-2014-IS05-05)**

*Compact Artificial Bee Colony*  
Thi-Kien Dao, Chu, Shu-Chuan, Trong-The Nguyen, Shieh, Chin-Shiuh and Horng, Mong-Fong  
National Kaohsiung University of Applied Sciences, Taiwan  
Flinders University, Australia

**SB3 6/4 15:50 - 17:50 Room B**  
**Multi-objective Optimization (2)**  
**Chair: Malek Mouhoub**

**SB3-01 (IEA-AIE-2014-IS03-04)**

*A Framework to Evolutionary Path Planning for Autonomous Underwater Glider*  
Shih, Chien-Chou, Yang, Yih, Horng, Mong-Fong, Pan, Tien-Szu and Pan, Jeng-Shyang  
Taiwan Ocean Research Institute, NARL, Taiwan  
National Kaohsiung University of Applied Sciences, Taiwan  
Harbin Institute of Technology, China

**SB3-02 (IEA-AIE 2014-0046)**

*A Three-Stage Decision Model Integrating FAHP, MDS and Association Rules for Targeting Smartphone Customers*  
Lin, Shiang-Lin and Yang, Heng-Li  
National Chengchi University, Taiwan

**SB3-03 (IEA-AIE 2014-0282)**

*Variable Ordering and Constraint Propagation for Constrained CP-Nets*  
Eisa Alanazi and Malek Mouhoub  
University of Regina, Canada

**SB3-04 (IEA-AIE 2014-0375)**

*A Three Stages to Implement Barriers in Bayesian-Based Bow Tie Diagram*  
Ahmed Badreddine, Mohamed Aymen Ben HajKacem and Nahla Ben Amor  
Université de Tunis, Tunisia

**SB3-05 (IEA-AIE 2014-0485)**

*Multi-Criteria Utility Mining Using Minimum Constraints*  
Lan, Guo-Cheng, Hong, Tzung-Pei and Chao, Yu-Te  
National Cheng-Kung University, Taiwan  
National University of Kaohsiung, Taiwan  
National Sun Yat-Sen University, Taiwan

**SC3 6/4 15:50 - 17:50 Room C**  
**Knowledge Management and Applications**  
**Chair: John Oommen**

**SC3-01 (IEA-AIE 2014-0212)**

*A Bayesian Learning Automata-based Distributed Channel Selection Scheme for Cognitive Radio Networks*

Lei Jiao, Xuan Zhang, Ole-Christoffer Granmo and B. John Oommen  
University of Agder, Norway  
Carleton University, Canada

**SC3-02 (IEA-AIE 2014-0231)**

*Towards the Design of an Advanced Knowledge-based Portal for Enterprises: the KBMS 2.0 Project*

Silvia Calegari, Matteo Dominoni and Emanuele Panzeri  
University of Milano-Bicocca, Italy

**SC3-03 (IEA-AIE 2014-0255)**

*A Topic Model for Traffic Speed Data Analysis*

Tomonari Masada and Atsuhiko Takasu  
Nagasaki University, Japan  
National Institute of Informatics, Japan

**SC3-04 (IEA-AIE 2014-0261)**

*Semi-Automatic Knowledge Acquisition Through CODA*

Manuel Fiorelli, Riccardo Gambella, Maria Teresa Pazienza, Armando Stellato and Andrea Turbati  
University of Rome, Tor Vergata Via del Politecnico, Italy

**SC3-05 (IEA-AIE 2014-0350)**

*Retaining Consistency for Knowledge-based Security Testing*

Andreas Bernauer, Josip Bozic, Dimitris E. Simos, Severin Winkler and Franz Wotawa  
Security Research, Favoritenstrasse, Vienna, 1040, Austria  
Techn. Univ. Graz, Ineldgasse 16b/2, 8010 Graz, Austria  
SBA Research, Favoritenstrasse, Vienna, 1040, Austria

**SC3-06 (IEA-AIE 2014-0400)**

*Implementing a System Enabling Open Innovation by Sharing Public Goals Based on Linked Open Data*

Teemu Tossavainen, Shun Shiramatsu, Tadachika Ozono and Toramatsu Shintani  
Nagoya Institute of Technology, Japan  
Aalto University, Finland

**SA4 6/5 11:20-12:20 Room A**

**Agent Technology (2)**

**Chair: Chien, Been-Chian**

**SA4-01 (IEA-AIE 2014-0468)**

*Using Common Sense Invariants in Belief Management for Autonomous Agents*

Clemens Mühlbacher and Gerald Steinbauer

Graz University of Technology, Austria

**SA4-02 (IEA-AIE 2014-0291)**

*Multi-Robot Cooperative Pathfinding: A Decentralized Approach*

Wei, Changyun, Koen V. Hindriks and Catholijn M. Jonker

Interactive Intelligence Group, EEMCS, Delft University of Technology, Netherlands

**SA4-03 (IEA-AIE 2014-0394)**

*Optimal Preference Clustering Technique For Scalable Multiagent Negotiation (short paper)*

Raiye Hailu and Takayuki Ito

Nagoya Institute of Technology, Japan

**SB4 6/5 11:20-12:20 Room B**

**Smart Living (1)**

**Chair: Yang, Chun-Sheng**

**SB4-01 (IEA-AIE-2014-IS03-01)**

*A Flexible Network Management Framework based on OpenFlow Technology*

Lo, Chun-Chih, Chin, Hsuan-Hsuan, Horng, Mong-Fong, Kuo, Yau-Hwang and Hsu,  
Jang-Pong

Center for Research of E-life Digital Technology

National Cheng Kung University, Taiwan

National Kaohsiung University of Applied Sciences, Taiwan

National Chengchi University, Taiwan

Advance Multimedia Internet Technology Inc., Taiwan

**SB4-02 (IEA-AIE 2014-0165)**

*A Data Driven Approach for Smart Lighting*

Hongyu Guo, Sylvain Letourneau and Chunsheng Yang

National Research Council, Canada

**SB4-03 (IEA-AIE 2014-0219)**

*On-Board Applications Development via Symbolic User Interfaces*

Bora İ. Kumova

İzmir Institute of Technology, Turkey

**SB4-04 (IEA-AIE 2014-0279)**

*An Ambient Intelligence Technology for Energy Saving*

Matteo Cristani, Erisa Karafili, and Claudio Tomazzoli

University of Verona, Italy



**SC4 6/5 11:20-12:20 Room C**

**Media Processing (2)**

**Chair: Tsai, Pei-Wei**

**SC4-01 (IEA-AIE 2014-0142)**

*Minimum Similarity Sampling Scheme for Nyström based Spectral Clustering on Large*

Zeng, Zhicheng, Zhu, Ming, Yu, Hong and Ma, Honglian

Dalian University of Technology, China

**SC4-02 (IEA-AIE 2014-0148)**

*Performance Improvement of Set Partitioning Embedded Block Algorithm for Still Image Compression*

Guo, Shu-Mei, Lee, Yun-Wei, Hsu, Chih-Yuan and Guo, Shy-Jen

National Cheng Kung University, Taiwan

National Taichung University of Science and Technology, Taiwan

**SC4-03 (IEA-AIE 2014-0195)**

*Similarity-based Classification of 2-D Shape Using Centroid-based Tree-structured Descriptor*

Wahyono, Laksono Kurnianggoro, Joko Hariyono and Kang-Hyun Jo

University of Ulsan, South Korea

**SC4-04 (IEA-AIE 2014-0363)**

*Ego-motion Compensated for Moving Object Detection in a Mobile Robot*

Joko Hariyono, Laksono Kurnianggoro, Wahyono, Danilo Caceres Hernandez and

Kang-Hyun Jo

University of Ulsan, South Korea

**SA5 6/5 13:30 - 15:30 Room A**

**Innovations in Intelligent Systems and Applications (1)**

**Chair: Chen, Shyi-Ming**

**SA5-01 (IEA-AIE-2014-IS01-01)**

*A Modified Maintenance Algorithm for Updating FUSP tree in Dynamic Database*

Li, Ci-Rong, Lin, Chun-Wei, Gan, Wensheng and Hong, Tzung-Pei

Fuqing Branch of Fujian Normal University, China

Innovative Information Industry Research Center and Shenzhen Key Laboratory of Internet

Information Collaboration School of Computer Science and Technology, China

Harbin Institute of Technology Shenzhen Graduate School, China

National University of Kaohsiung, Taiwan

National Sun Yat-sen University, Taiwan

**SA5-02 (IEA-AIE-2014-IS01-02)**

*A New Method for Group Decision Making Using Group Recommendations Based on Interval Fuzzy Preference Relations and Consistency Matrices*

Chen, Shyi-Ming and Lin, Tsung-En

National Taiwan University of Science and Technology, Taiwan

**SA5-03 (IEA-AIE-2014-IS01-03)**

*Using Red-Otsu Thresholding to Detect the Bus Routes Number for Helping Blinds to Take Bus*

Cheng, Ching-Ching and Tsai, Chun-Ming

Providence University, Taiwan

University of Taipei, Taiwan

**SA5-04 (IEA-AIE-2014-IS01-04)**

*Stock Portfolio Construction Using Evolved Bat Algorithm*

Chang, Jui-Fang, Yang, Tsai-Wei and Tsai, Pei-Wei

National Kaohsiung University of Applied Science, Taiwan

National Kaohsiung Marine University, Taiwan

**SA5-05 (IEA-AIE-2014-IS01-05)**

*Semantic Frame-based Natural Language Understanding for Intelligent Topic Detection Agent*

Chang, Yung-Chun, Hsieh, Yu-Lun, Chen, Cen-Chieh and Hsu, Wen-Lian

Institute of Information Science, Academia Sinica, Taiwan

National Taiwan University, Taiwan

National Chengchi University, Taiwan

**SB5 6/5 13:30 - 15:30 Room B**

**Smart Living (2)**

**Chair: Heinrich C. Mayr**

**SB5-01 (IEA-AIE 2014-0296)**

*Implementation of an Event Information Sharing Support System Utilizing OpenStreetMap*

Kohei Hayakawa, Tomomichi Hayakawa and Takayuki Ito

Nagoya Institute of Technology, Japan

**SB5-02 (IEA-AIE 2014-0340)**

*A Non-invasive Approach to Detect and Monitor Acute Mental Fatigue*

André Pimenta, Davide Carneiro, José Neves and Paulo Novais

Universidade do Minho, Portugal

**SB5-03 (IEA-AIE 2014-0275)**

*Vitae and Map Display System for People on the Web*

Harumi Murakami, Chunliang Tang, Suang Wang and Hiroshi Ueda

Osaka City University, Japan

ATR Creative Inc., Japan

**SB5-04 (IEA-AIE 2014-0360)**

*Gestures as Interface for a Home TV Digital Divide Solutions through Inertial Sensors*

Stefano Pinardi and Matteo Dominoni

University of Milano-Bicocca, Italy

**SB5-05 (IEA-AIE 2014-0369)**

*Differential Diagnosis of Erythematous-Squamous Diseases using Ensemble of Decision Trees*

Mohamed El Bachir Menai and Nuha Altayash

King Saud University, Saudi Arabia

**SB5-06 (IEA-AIE 2014-0380)**

*Establishing the Relationship between Personality Traits and Stress in an Intelligent Environment*

Marco Gomes, Tiago Oliveira, Fábio Silva, Davide Carneiro and Paulo Novais

University of Minho, Portugal

**SB5-07 (IEA-AIE 2014-0495)**

*Behavior Modeling and Reasoning for Ambient Support: HCM-L Modeler*

Fadi Al Machot, Heinrich C. Mayr and Judith Michael

Alpen-Adria-Universität Klagenfurt, Austria

**SC5 6/5 13:30 - 15:30 Room C**  
**Optimization in Industrial Applications**  
**Chair: Akhil Garg**

**SC5-01 (IEA-AIE 2014-0030)**

*Heuristic Search for Scheduling Flexible Manufacturing Systems Using Multiple Heuristic Functions*

Huang, Bo, Jiang, Rongxi and Zhang, Gongxuan  
Nanjing University of Science and Technology, China

**SC5-02 (IEA-AIE 2014-0109)**

*Developing Data-driven Models to Predict BEMS Energy Consumption for Demand Response Systems*

Yang, Chunsheng, Sylvain Létourneau and Guo, Hongyu  
Information and Communication Technologies National Research Council Canada, Canada

**SC5-03 (IEA-AIE 2014-0115)**

*Particle filter-based method for prognostics with application to Auxiliary Power Unit*

Chunsheng Yang, Qingfeng Lou, Jie Liu, Yang, Yubin and Yun Bai  
National Research Council Canada, Canada  
Carleton University, Canada  
Nanjing University, China  
University of Western Sydney, Australia

**SC5-04 (IEA-AIE 2014-0173)**

*A Branch-and-bound Algorithm for the Talent Scheduling Problem*

Liang, Xiacong, Zhang, Zizhen, Qin, Hu, Guo, Songshan and Lim, Andrew  
Sun Yat-Sen University, China  
Huazhong University of Science and Technology, China  
City University of Hong Kong, Hong Kong

**SC5-05 (IEA-AIE 2014-0204)**

*An Improved Multi-gene Genetic Programming Approach for the Evolution of Generalized Model in Modelling of Rapid Prototyping Process*

Akhil Garg and Kang Tai  
Nanyang Technological University, Singapore

**SC5-06 (IEA-AIE 2014-0251)**

*Optimization of Temperature Precision for Double-shell Oven by Lean Six Sigma Method*

Yen, Kai-Hsiang, Lin, Ming-Lung, Shih, Hsiao-Wei and Wang, Carl  
Underwriters Laboratories Taiwan Co., Ltd, Taiwan

**SA6 6/5** 15:50 - 17:50 **Room A**

**Innovations in Intelligent Systems and Applications (2)**

**Chair: Cheng, Shou-Hsiung**

**SA6-01 (IEA-AIE 2014-0241)**

*A practical approach for parameter identification with limited information*

Lorenzo Zeni, Yang, Guangya, Germán Claudio Tarnowski and Jacob Østergaard  
Technical University of Denmark, Denmark

**SA6-02 (IEA-AIE-2014-IS01-06)**

*A Novel Method for Extracting Aging Load and Analyzing Load Characteristics in Residential Buildings*

Chang, Hsueh-Hsien, Lee, Meng-Chien and Chen, Nanming

Jinwen University of Science and Technology, Taiwan

National Taiwan University of Science and Technology, Taiwan

**SA6-03 (IEA-AIE-2014-IS01-08)**

*New Vision for Intelligent Video Virtual Reality*

Yeh, Wei-Ming

National Taiwan University of Arts, Taiwan

**SA6-04 (IEA-AIE-2014-IS01-09)**

*An Improved Liu's Ordering Theory Based on Empirical Distributive Critical Value*

Liu, Hsiang-Chuan, Shia, Ben-Chang and Cheng, Der-Yin

Fu Jen Catholic University, Taiwan

**SA6-05 (IEA-AIE-2014-IS01-10)**

*A Hybrid Predicting Stock Return Model Based on Bayesian Network and Decision Tree*

Cheng, Shou-Hsiung

Chienkuo Technology University, Taiwan

**SB6 6/5 15:50 - 17:50 Room B**

**Information Retrieval**

**Chair: Yasser Mohammad**

**SB6-01 (IEA-AIE 2014-0040)**

*Apply the Dynamic N-gram to Extract the Keywords of Chinese News*

Lin, Ren-Xiang and Yang, Heng-Li

National Chengchi University, Taiwan

**SB6-02 (IEA-AIE 2014-0451)**

*Burst Analysis of Text Document for Automatic Concept Map Creation*

Wan C. Yoon, Sunhee Lee and Seulki Lee

Korea Advanced Institute, South Korea

**SB6-03 (IEA-AIE 2014-0458)**

*Scale Invariant Multi-length Motif Discovery*

Yasser Mohammad and Toyooki Nishida

Assiut University, Egypt

Kyoto University, Japan

**SB6-04 (IEA-AIE 2014-0499)**

*Estimation of Missing Values in SNP Array*

Przemyslaw Podsiadly

Warsaw University of Technology, Poland

**SB6-05 (IEA-AIE 2014-0581)**

*Configuring the Webpage Content through Conditional Constraints and Preferences*

Eisa Alanazi and Malek Mouhoub

University of Regina, Canada

**SB6-06 (IEA-AIE 2014-0592)**

*Layered Context Inconsistency Resolution for Context-Aware Systems*

Chien, Been-Chian and Hsueh, Yuen-Kuei

National University of Tainan, Taiwan

**SC6 6/5 15:50 - 17:50 Room C**

**Intelligence Systems for E-Commerce and Logistics**

**Chair: Malek Mouhoub**

**SC6-01 (IEA-AIE 2014-0050)**

*The Stowage Stack Minimization Problem with Zero Rehandle Constraint*

Wang, Ning, Zhang, Zizhen and Lim, Andrew

City University of Hong Kong, Hong Kong

Sun Yat-sen University, China

Nanjing University, China

**SC6-02 (IEA-AIE 2014-0088)**

*The Multi-period Profit Collection Vehicle Routing Problem with Time Windows*

Xie, Yubin, Zhang, Zizhen, Qin, Hu, Guo, Songshan and Lim, Andrew

Sun Yat-Sen University, China

Huazhong University of Science and Technology, China

City University of Hong Kong, Hong Kong

**SC6-03 (IEA-AIE 2014-0129)**

*An Internet Core-Based Group-Trading Model*

Sun, Pen-Choug

Aletheia University, Taiwan

**SC6-04 (IEA-AIE 2014-0272)**

*Considering Multiple Instances of Items in Combinatorial Reverse Auctions*

Shubhashis Kumar Shil and Malek Mouhoub

University of Regina, Canada

**SC6-05 (IEA-AIE 2014-0315)**

*Constraint and Qualitative Preference Specification in Multi-Attribute Reverse Auctions*

Samira Sadaoui and Shubhashis Kumar Shil

University of Regina, Canada

**SC6-06 (IEA-AIE 2014-0388)**

*Applications of Multivariate Time Series Analysis, Kalman Filter and Neural Networks in Estimating Capital Asset Pricing Model*

Zeng, An, Pan, Dan, Yang, Haidong and Xie, Guangqiang

Guangdong University of Technology, China

Batteries Plus LLC, Hartland, United States

Pipe Material & Equipment Corp. of CNPC, China

**SA7 6/6 11:20-12:20 Room A**  
**Data Mining and QA Technology**  
**Chair: Takayuki Ito**

**SA7-01 (IEA-AIE 2014-0106)**

*Answer Set Programs with One Incremental Variable*

Deng, Junjun and Zhang, Yan

University of Western Sydney, Australia

**SA7-02 (IEA-AIE 2014-0215)**

*Programmable Managing of Workflows in Development of Software-Intensive Systems*

P.Sosnin, Y. Lapshov and K. Svyatov

Ulyanovsk State Technical University, Russia

**SA7-03 (IEA-AIE 2014-0422)**

*An Answer Validation Concept Based Approach for Question Answering in Biomedical Domain*

Hou, Wen-Juan and Tsai, Bing-Han

National Taiwan Normal University, Taiwan

**SA7-04 (IEA-AIE 2014-0563)**

*Implementation of Question Answering System Based on Reference-based Ranking Algorithm*

Takayuki Ito and Yuta Iwama

Nagoya Institute of Technology, Japan



**SB7 6/6 11:20-12:20 Room B**

**Innovations in Intelligent Systems and Applications (3)**

**Chair: Shih, An-Zen**

**SB7-01 (IEA-AIE 2014-0372)**

*Prediction of Team Performance and Members' Interaction: A Study Using Neural Network*

Yang, Feng-Sueng and Chou, Chen-Huei

Aletheia University, Taiwan

College of Charleston, United States

**SB7-02 (IEA-AIE-2014-IS01-07)**

*An Approach of Color Image Analysis by Using Fractal Signature*

Shih, An-Zen

Jin-Wen Technology University, Taiwan

**SB7-03 (IEA-AIE-2014-IS03-03)**

*An Optimized Approach Based on Neural Network and Control Theory to Estimate Hydro-Geological Parameters*

Hung, Chih-Yung and Lee, Cheng-Haw

National Cheng Kung University, Taiwan

**SC7 6/6 11:20-12:20 Room C**  
**Data Mining and Industrial Applications**  
**Chair: Kao, Hao-Yun**

**SC7-01 (IEA-AIE 2014-0309)**

*Production Planning and Inventory Control in Automotive Supply Chain Networks*

Ashkan Memari, Abdul Rahman Bin Abdul Rahim and Robiah Binti Ahmad

Universiti Teknologi Malaysia, Malaysia

UTM Razak School of Engineering and Advanced Technology, Malaysia

**SC7-02 (IEA-AIE 2014-0595)**

*Develop and Evaluate the Mobile-based Self-management Application for Tele-healthcare Service*

Kao, Hao-Yun, Cheng, Yi-Ting and Chien, Yi-Kuang

Kaohsiung Medical University, Taiwan

Kaohsiung Medical University Hospital, Taiwan

**SC7-03 (IEA-AIE 2014-0079)**

*A New Fuzzy Support Vector Data Description Machine*

Hao, Pei-Yi

National Kaohsiung University of Applied Sciences, Taiwan

**SA8 6/6 13:30 - 15:30 Room A**

**Machine Learning**

**Chair: Inhaúma Neves Ferraz**

**SA8-01 (IEA-AIE 2014-0060)**

*Turbo Machinery Failure Prognostics*

Inhaúma Neves Ferraz and Ana Cristina Bicharra Garcia

Universidade Federal Fluminense, Brazil

**SA8-02 (IEA-AIE 2014-0180)**

*Extremely Fast Unsupervised Codebook Learning for Landmark Recognition*

Guo, Yilin and Lu, Wanming

HTC Beijing Advanced Technology and Research Center, China

**SA8-03 (IEA-AIE 2014-0222)**

*A New Rough Set Based Classification Rule Generation Algorithm (RGA)*

Feng, Honghai, Chen, Yanyan, Zou, Kaiwei, Liu, Lijuan, Zhu, Qiannan, Zhuo, Ran, Li, Yao, Ji, Lijin and Liu, Sai

Henan University, China

**SA8-04 (IEA-AIE 2014-0228)**

*Using the Theory of Regular Functions to Formally Prove the e-Optimality of Discretized Pursuit Learning Algorithms*

Zhang, Xuan, B. John Oommen, Ole-Christoffer Granmo and Lei Jiao

University of Agder, Norway

Carleton University, Canada

**SA8-05 (IEA-AIE 2014-0545)**

*Q-Learning Algorithm Used by Secondary Users for QoS Support in Cognitive Radio Networks*

Jerzy Martyna

Jagiellonian University, Poland

**SA8-06 (IEA-AIE 2014-0560)**

*An Adaptive Questionnaire for Automatic Identification of Learning Styles*

Esperance Mwamikazi, Philippe Fournier-Viger, Chadia Moghrabi, Adnen Barhoumi and Robert Baudouin

Université de Moncton, Canada

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| Xie, Yubin         | SC6-02         |
| Xuan Zhang         | SC3-01         |
| Yan, Lijun         | SC2-01, SA3-02 |
| Yang, Chunsheng    | SC5-02         |
| Yang, Conna        | SC1-03         |
| Yang, Feng-Sueng   | SB7-01         |
| Yang, Guangya      | SA6-01         |
| Yang, Haidong      | SC6-06         |
| Yang, Heng-Li      | SB3-02, SB6-01 |
| Yang, Keng-Chieh   | SC1-03         |
| Yang, Tsai-Wei     | SA5-04         |
| Yang, Wei-Jie      | SC2-04         |
| Yang, Yih          | SB3-01         |
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| Yasser Mohammad    | SB6-03         |
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| Yifei Jiang        | SC2-05         |
| Yoshihiko Hamamoto | SC1-01, SC1-02 |
| Yu, Hong           | SC4-01         |
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| Yuta Iwama      | SA7-04                 |
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| Zhu, Ming       | SC4-01                 |
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