

KES-AMSTA 2008

Incheon 26-28 March 2008

Conference Program

Useful map



KES AMSTA 2008 26-28 March 2008		Program at Glance	
Time	Session 1 (Room A)	Session 2 (Room B)	Session 3 (Room C)
Wednesday, March 26th			
17:00 – 19:00	Registration		
Thursday, March 27th			
8:00 – 09:00	Registration		
9:00- 9:30	Opening (Room A) Chair: Prof. G.S. Jo		
09:30– 10:30	Plenary Session: Prof. J.K. Lee Chair: Prof. L.C. Jain		
10:30- 11:00	<i>Coffee Break</i>		
11:00- 13:00	Ontology Management I Chair: Dr. J.J. Jung	Cooperation, Coordination and Teamwork I Chair: Dr. L.B. Cao	Methodological Aspects I Chair: Dr. I. Czarnowski
13:00- 14:30	<i>Lunch Break</i>		
14:30– 16:00	Plenary Session: Prof. L.C. Jain and Prof. D.S. Huang Chair: Prof. R. Tadeusiewicz		
16:00- 16:30	<i>Coffee Break</i>		
16:30- 18:30	Ontology Management II Chair: Dr. R. Wojcik	Cooperation, Coordination and Teamwork II Chair: Dr. R. Hartung	Methodological Aspects II Chair: Prof. A. Håkansson
18:30- 21:30	<i>Conference dinner</i>		

Friday, June 28th			
8:00-10:00	Mobile Agents I Chair: Dr. G. Brzykcy	Multi-agent Learning I Chair: Prof. G.S. Jo	Agent in Applications I Chair: Dr. S. Kang
10:00-10:30	<i>Coffee Break</i>		
10:30-12:30	Mobile Agents II Chair: Dr. S.Y. Huang	Multi-agent Learning II Chair: Dr. H. Lee	Agent in Applications II Chair: Dr. L.C. Cao
12:30-13:30	<i>Lunch Break</i>		
13:30-15:30	Doctoral Track I Chair: Dr. R. Katarzyniak	Social Issues on Agent System Chair: Prof. N.T. Nguyen	Agent for Network Management Chair: Dr. C.M. Ou
15:30-16:00	<i>Coffee Break</i>		
16:00-17:30	Doctoral Track II Chair: Dr. R. Katarzyniak	Session: Special Session I Chair: Dr. D. Krol	Session Special Session II Chair: Prof. G. Lee
17:30-18:00	Closing Session: Award Ceremony and Presentation of KES-AMSTA 2009 (Room A)		

KES AMSTA 2008

26-28 March 2008

Program

Wednesday, March 26th

17:00-19:00 Registration

Thursday, March 27th

8:00-09:00 Registration

9:00-9:30 Opening

09:30-10:30 Plenary session
Chair: Prof L.C. Jain
Room: A

How to Make Agents Work in the Real World?
Prof. Jae Kyu Lee

10:30-11:00 Coffee break

11:00-13:00 Ontology Management – part I
Chair: Dr. J.J. Jung
Room: A

Social Semantic Cloud of Tag: Semantic Model for Social Tagging
Hak-Lae Kim, John G. Breslin, Sung-Kwon Yang, and Hong-Gee Kim

A Study of Meta-Search Agent Based on Tags and Ontological
Approach for Improving Web Searches
Jae-Youn Jung, Hyeon-Cheol Zin, Chonggun Kim

Using Meta-agents to reason with Multiple Ontologies

Ronald Hartung, Anne Håkansson

Bridging Semantic Gap in Distant Communication: Ontology-based Approach

Nilar Aye, Fumio Hattori, Kazuhiro Kuwabara

Ontology Methodology Based Context Awareness Using System Entity Structure for Network Analysis

Taekyu Kim, Young-Shin Han, Tae-young Kim, Jong-Sik Lee

11:00-13:00 Cooperation, Coordination and Teamwork – part I

Chair: Dr. L.B. Cao

Room: B

A Model for Fuzzy Grounding of Modal Conjunctions in Artificial Cognitive Agents

Radosław Piotr Katarzyniak, Ngoc Thanh Nguyen, and Lakhmi C. Jain

An Integrated Argumentation Environment for Arguing Agents

Taro Fukumoto, Syuusuke Kuribara, and Hajime Sawamura

Agent Collaboration for Multiple Trading Strategy Integration

Longbing Cao, Dan Luo, Yanshan Xiao, Zhigang Zheng

Strategy Acquisition on Multi-Issue Negotiation without Estimating Opponent's Preference

Shohei Yoshikawa, Yoshiaki Yasumura, Kuniaki Uehara

Predictor Agent for Online Auctions

Deborah Lim, Patricia Anthony, Ho Chong Mun

11:00-13:00 Methodological Aspect – part I

Chair: Dr. I. Czarnowski

Room: C

On Drawing Conclusions in Presence of Inconsistent Data

Sylvia Encheva, Sharil Tumin

Basic Concepts of Knowledge-based Image Understanding

R. Tadeusiewicz, P. S. Szczepaniak

Facilitating MAS Complete Life Cycle through the Protégé-Prometheus Approach

Marina V. Sokolova, Antonio Fernández-Caballero

Ant Colony Programming with the Candidate List

Mariusz Boryczka

A Color Set Web-based Agent System For 2-dimension Emotion Image Space

Chen Pei-Lin , Jen Yen

13:00-14:30 Lunch Break

14:30-16:00 Plenary session

Chair: Prof. R. Tadeusiewicz

Room: A

How Intelligent Agents can assist in Security?

Prof. Lakhmi C. Jain

Density-Based Clustering Using Level Set Method

Prof. De-Shuang Huang

16:00-16:30 Coffee break

16:30-18:30 Ontology Management – part II

Chair: Dr. R. Wojcik

Room: A

A Scalable Framework for Distributed Ontologies

Ngot Phu Bui, Young-Tack Park, TaeChoong Chung

Adaptive Information Provisioning in an Agent-Based Virtual Organization—Ontologies in the System

Michal Szymczak, Grzegorz Frackowiak, Maciej Gawinecki, Maria Ganzha, Marcin Paprzycki, Myon-Woong Park, Yo-Sub Han, Y.T. Sohn

Learning Semantic Web from E-tourism

Dr. Waralak V Siricharoen

Incremental Biomedical Ontology Change Management through Learning Agents

Arash Shaban-Nejad, Volker Haarslev

A Comparative Study of Two Short Text Semantic Similarity Measures

James O'Shea, Zuhair Bandar, Keeley Crockett, David McLean

16:30-18:30 Cooperation, Coordination and Teamwork – part II

Chair: Dr. R. Hartung

Room: B

Discovering Behavior Patterns in Muti-Agent Teams

Fernando Ramos, Huberto Ayanegui

Fuzzy Logic for Cooperative Robot Communication

Dingyun Zhu, Tom Gedeon

An approach to event-driven algorithm for intelligent agents in multi-agent systems

Anne Håkansson, Ronald Hartung

Agent based Formation and Enactment of Adaptable Inter-organizational Workflows in Virtual Organizations

Habin Lee, Hyung Jun Ahn, Hanseup Kim, John Shepherdson, Sung Joo Park

AGVS Distributed Control Subject to Imprecise Operation Times

Grzegorz Bocewicz, Robert Wójcik, Zbigniew Banaszak

16:30-18:30 **Methodological Aspect- part II**
Chair: Prof. A. Håkansson
Room: C

A Software Engineering Process For BDI Agents

Aaron Hector, Frans Henskens, Michael Hannaford

Design Pattern based Development Methodology and Support Tool
for Multi Agent System

Hyunsang Youn, Eunseok Lee

Moving Object Detection and Classification Using Neural Network

M. Ali Akber Dewan, M. Julius Hossain, Oksam Chae

Performance Evaluation of Mobile Grid Services

Sze-Wing Wong and Kam-Wing Ng

Bayesian communication leading to Nash equilibrium through robust
messages - p-Belief system case -

Takashi Matsuhisa

18:30-21:30 Conference dinner

Friday, March 28th

8:00-10:00 **Mobile Agents – part I**
Chair: Dr. G. Brzykcy
Room: A

A User Interface for a Jini-based Appliances in Ubiquitous Smart
Homes

Seong Joon Lee, Won Tae Kim, Kwang Seon Ahn

On the Multi-Threading Approach of Efficient Multi-Agent
Methodology for Modelling Cellular Communications Bandwidth
Management

P.M. Papazoglou, D.A. Karras, R.C. Papademetriou

Design of the Architecture for Agent of the Personality Security in
the Ubiquitous Environment

Eun-Ser Lee, Sang Ho Lee

The Multi Agent System Solutions for Wireless Sensor Network Applications

Khin Haymar Saw Hla, YoungSik Choi, Jong Sou Park

A Study of Implanted and Wearable Body Sensor Networks

Sana Ullah, Henry Higgin, M.Arif Siddiqui, Kyung Sup Kwak

8:00-10:00 Multi-agent Learning – part I

Chair: Prof. G.S. Jo

Room: B

A method for validating and discovering associations between multi-level emergent behaviours in agent-based simulations

Chih-Chun Chen, Sylvia B. Nagl, and Christopher D. Clack

Real-Time Neural Networks Application of Micro- Electroforming for Different Geometry Forms

Sheau-Wen Shiah, Pai-Yu Chang, Tzeng-Yuan Heh, Po-Hung Lin

KOSPI Time Series Analysis Using Neural Network with Weighted Fuzzy Membership Functions

Sang-Hong Lee, Joon S. Lim

Holonic Multi-agent System Model for Fuzzy Automatic Speech / Speaker Recognition

J.J. Valencia-Jiménez and Antonio Fernández –Caballero

Towards A Distributed Fuzzy Decision Making System

Kevin K.F. Yuen, H.C.W. Lau

8:00-10:00 Agent in Applications – part I

Chair: Dr. S. Kang

Room: C

Library Services as Multi Agent System

Toshiro Minami

The Impact of Information Sharing Mechanism to Geographic Market Formation

Xingang Xia, Hua Sun, Guo Liu, Zhangang Han

Agent System for Online Ticket Resale

Jae Hyung Cho, Hyun Soo Kim, Hyung Rim Choi, Jae Un Jung
Contribution of Hypercontours to Multiagent Automatic Image
Analysis

P. S. Szczepaniak

Application of ubiquitous computing technology to the steel-plate
piling process of ship construction

Hoon Oh, Jeong Seok Heo

10:00-10:30 Coffee break

10:30-12:30 Mobile Agents – part II

Chair: Dr. S.Y. Huang

Room: A

Complexity of Road Networks as Agents' Environments– Analyzing
Relevance between Agent Evaluations and their Environments –

Kazunori Iwata, Nobuhiro Ito, Youhei Kaneda, Naohiro Ishii

The user preference learning for multi-agent based on Neural
Network in Ubiquitous Computing Environment

Eungyeong Kim, Hyogun Yoon, Malrey Lee, Thomas M. Gatton

Manager-Agent Framework of a Medical Device Communication for
u-Healthcare Services with USN

Yung Bok Kim, Jae-Jo Lee

An Intelligent Multi Agent Design in Healthcare Management
System

Dharmendra Sharma, Fariba Shadabi

A Middleware Platform based on Multi –Agents for u-Healthcare
Service s with Sensor Networks

Yung Bok Kim, Chul-Su Kim, Jun Wook Lee

10:30-12:30 Multi-agent Learning – part II

Chair: Dr. H. Lee

Room: B

A Personalized URL Re-ranking Methodology using User's
Browsing Behavior

Harshit Kumar, Sungjoon Park, Sanggil Kang

Multi-Agent System for Custom Relationship Management with
SVMs Tool

Yanshan Xiao, Bo Liu, Dan Luo, Longbing Cao

Temporal Difference Learning and Simulated Annealing for Optimal
Control: A Case Study

Jinsong Leng, Beulah M Sathyaraj, Lakhmi Jain

Separating Learning as an Aspect in Malaca agents

M. Amor, L. Fuentes y, A. Valenzuela

An A-Team Approach to Learning Classifiers from Distributed Data
Sources

Ireneusz Czarnowski, Piotr Jędrzejowicz, Izabela Wierzbowska

10:30-12:30 Agent in Applications – part II

Chair: Dr. L.C. Cao

Room: C

A formalization for distributed cooperative sensor resource
allocation

Toshihiro Matsui, Hiroshi Matsuo

Realization of an Intelligent Frog Call Identification Agent

*Chenn-Jung Huang, Yi-Ju Yang, Dian-Xiu Yang, You-Jia Chen,
Hsiang-Yu Wei*

A Rough Set Approach on Supply Chain Dynamic Performance
Measurement

Pei Zheng, Kin Keung Lai

Analyzing knowledge exchanges in hybrid MAS GIS decision
support systems, toward a new DSS architecture

D. Urbani, M. Delhom

12:30-13:30 Lunch break

13:30-15:30 Doctoral Track – part I
Chair: Dr. R. Katarzyniak
Room: A

Measuring Similarity of Observations Made by Artificial Cognitive Agents

Grzegorz Popek, Radoslaw Piotr Katarzyniak

An Algorithm for Agent Knowledge Integration Using Conjunctive and Disjunctive Structures

Trong Hieu Tran, Ngoc Thanh Nguyen

A note on root choice for parallel processing of tree decompositions

Yueping Li, Yunting Lu

An Agent's Activities Are Controlled by His Priorities

Huilian Zhang, Shell Ying Huang, Yuming Chang

Mining based Decision Support Multi-Agent System for Personalized e-Healthcare Service

Eunyoung Kang, Hee Yong Youn, Ungmo Kim

13:30-15:30 Social Issues on Agent System
Chair: Prof. N.T. Nguyen
Room: B

Data integration in a system with agents' models

Grażyna Brzykcy

Resource and Remembering Influences on Acquaintance Networks

Chung-Yuan Huang, Chia-Ying Cheng, Chuen-Tsai Sun

Resource Limitations, Transmission Costs and Critical Thresholds in Scale-Free Networks

Chung-Yuan Huang, Chia-Ying Cheng, Chuen-Tsai Sun

The Choquet Integral Analytic Hierarchy Process for Radwaste Repository Site Selection In Taiwan

Chen Lin

Are you satisfied with your recommendation service?: Discovering social networks for personalized mobile services

Jason J. Jung, Kono Kim, Hojin Lee, Seongrae Park

13:30-15:30 Agent for Network Management

Chair: Dr. C.M. Ou

Room: C

Background Sensing Control for Planning Agents Working in the Real World

Hisashi Hayashi, Seiji Tokura, Fumio Ozaki, Miwako Doi

Approach to Solving Security Problems Using Meta-Agents in Multi Agent System

Esmiralda Moradian, Anne Håkansson

An Agent using Matrix for Backward Path Search on MANET

SungSoo Lee, ZhiPeng Liu, ChongGun Kim

SETNR/A: An Agent-based Secure Payment Protocol for Mobile Commerce

Chung-Ming Ou, C.R.Ou

A Key Management Scheme Combined with Intrusion Detection for Mobile Ad Hoc Networks

Yingfang Fu, Jingsha He, Liangyu Luan, Guorui Li, Wang Rong

15:30-16:00 Coffee break

16:00-17:30 Doctoral Track – part II

Chair: Dr. R. Katarzyniak

Room: A

A Multi-agent Mechanism in Machine Learning Approach to Anti-virus System

Minh Nhat Quang Truong, Trong Nghia Hoang

Data-Mining Model based on Multi-Agent for the Intelligent Distributed Framework

Romeo Mark A. Mateo, Insook Yoon, Jaewan Lee

Recalling the Embodied Meaning of Modal Conjunctions in Artificial Cognitive Agents

Wojciech Lorkiewicz, Radoslaw Piotr Katarzyniak

Performance Evaluation of Multiagent Systems: Communication Criterion

Faten Ben Hmida, Wided Lejouad Chaari, Moncef Tagina

Using Multiple Models to Imitate the YMCA

Axel Tidemann

**16:00-17:00 Self-Organization in Multi-agent Systems -
Special Session I**

Chair: Dr. D. Krol

Room: B

A Comparison of Performance-Evaluating Strategies for Data Exchange in Multi-Agent System

Dariusz Król, Michał Zelmozer

The Emergence and Collapse of the Self Monitoring Center in Multi-agent Systems

Asaki Nishikawa

The Design of Model Checking Agent for SMS Management System

Ali Selamat, Siti Dianah Abdul Bujang

An Intelligent Agent-based System for Multilingual Financial News Digest

James N.K. Liu, M.K. Ho

An Agent-Based Diabetic Patient Simulation

Sara Ghoreishi Nejad, Robert Martens, Raman Paranjape

A Multi-agent System for Computer Network Security Monitoring

Agnieszka Prusiewicz

**16:00-17:00 Intelligent and Secure Agent for Digital
Content Management- Special Session II**

Chair: Prof. G. Lee

Room: C

Vulnerabilities in a Remote Agent Authentication Scheme Using Smart Cards

Youngsook Lee, Junghyun Nam, Dongho Won

A Security Enhancement of the E0 Cipher in Bluetooth System

HyeongRag Kim, HoonJae Lee , SangJae Moon

Study of Optimal Traffic Information using Agents Techniques

You-Sik Hong, CheonShik Kim, Geuk Lee

A Recommendation Using Item Quality

Sung-hoon Cho, Moo-hun Lee, Bong-Hoi Kim, Eui-in Choi

Secure Storage and Communication in J2ME based Lightweight
Multi-Agent Systems

*Syed Muhammad Ali Shah, Naseer Gul, Hafiz Farooq Ahmad, Rami
Bahsoon*

A New Key Agreement Protocol based on Chaotic Maps

Eun-Jun Yoon, Kee-Young Yoo

17:30-18:00 **Closing Session:** Award Ceremony and
Presentation of KES-AMSTA 2009
Room: A