

IEA/AIE 2008

Wroclaw, Poland

conference program

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IEA-AIE 2008
18-20 June

Program at Glance

Wednesday, June 18th				
Time	Room A	Room B	Room C	Room D
8:00-9:00	Registration			
9:00-9:30	Opening (Room A)			
9:30-10:30	Plenary Session 1: Prof. Ning Zhong Chair: Prof. Adam Grzech			
10:30-11:00	Coffee Break			
11:00-13:00	Session S1 Chair: Prof. Ryszard Kowalczyk	Session S2 Chair: Prof. Tzu-Fu Chiu	Session S3 Chair: Prof. Tokuro Matsuo	NCAIT-1 Chair: Dr. Dariusz Krol
13:00-14:30	Lunch Break			
14:30-16:00	Plenary Session 2: Prof. Krzysztof Zieliński, Prof. Edward Szczerbicki Chair: Prof. Ngoc Thanh Nguyen			
16:00-16:30	Coffee Break			
16:30-18:30	Session S4 Chair: Prof. Zbigniew Banaszak	Session S5 Chair: Dr. Carmo Nicoletti and Dr. Dariusz Krol	Session S6 Chair: Dr. Gordan Jezic	NCAIT-2 Chair: Dr. Ireneusz Czarnowski
19:00-20:00	Welcome Reception			

Thursday, June 19th				
Time	Room A	Room B	Room C	
8:00-9:00	Registration			
9:00-10:30	Plenary Session 3: Prof. Shyi-Ming Chen, Prof. Ryszard Kowalczyk Chair: Prof. Zbigniew Banaszak			
10:30-11:00	Coffee Break			
11:00-13:00	Session S7 Chair: Prof. Roy Chaoming Hsu	Session S8 Chair: Prof. Hiroshi Tsuji	Session S9 Chair: Prof. Takayuki Ito	
13:00-14:00	Lunch Break			
14:00-16:00	Session S10 Chair: Prof. Masahiro Terabe	Session S11 Chair: Prof. Moonis Ali	Session S12 Chair: Prof. Paul Davidsson	
16:00-16:20	Coffee Break			
16:20-18:20	Session S13 Chair: Prof. Miguel Rocha	Session S14 Chair: Prof. Kishan G Mehrotra	Session S15 Chair: Prof. James J. Lu	
19:30-22:00	Banquet			

Friday, June 20th				
Time	Room A	Room B	Room C	
8:00-9:00	Registration			
9:00-11:00	Session S16 Chair: Prof. Catholijn M. Jonker	Session S17 Chair: Prof. Krzysztof Jemielniak	Session S18 Chair: Prof. Malek Mouhoub	
11:00-11:30	Coffee Break			
11:30-12:00	Best Papers Award Ceremony and Presentation of IEA-AIE 2009			
12:00-13:00	Lunch			
13:00-14:00	ISAI Meeting (Room A)			

S1 - Computer Vision

Driver Assistance System Based on Monocular Vision
Yu-Min Chiang, No-Zen Hsu, Kuan-Liang Lin

Building Surface Refinement Using Cluster of Repeated Local Features by Cross Ratio
Hoang-Hon Trinh, Dae-Nyeon Kim, Kang-Hyun Jo

Local Subspace-Based Denoising for Shot Boundary Detection
Xuefeng Pan, Yongdong Zhang, Jintao Li, Xiaoyuan Cao, Sheng Tang

Important News

Accepted papers

The list of accepted papers is now available by link:

NEW

accepted papers

NEW

NCAIT Session

The information on poster specification is now available by link:

poster size

Image Retrieval Using Modified Color Variation Co-occurrence Matrix
Yung-Fu Chen, Yung-Kuan Chan, Guo-Uei Chang, Meng-Chi Tsao, Yu-Jhuang Syu, Chuen-Horng Lin

Particle Swarm Optimization for Object Recognition in Computer Vision
Hugo A. Perlin, Heitor S. Lopes, Tania Mezzadri Centeno

S2 - Other Applications

Using place and transition fault net models for sequential diagnosis time assessment in discrete event systems
Iwan Tabakow

A CBR-Based Approach for Ship Collision Avoidance
Yuhong Liu, Chunsheng Yang, Xuanmin Du

Multiphase Data Exchange in Distributed Logic-Algebraic Based Processing
Leszek Borzowski, Mariusz Frasz

Visualization of Financial Trends using Chance Discovery Methods
Tzu-Fu Chiu, Chao-Fu Hong, Yu-Ting Chiu

A Survey on Reviewer Assignment Problem
Fan Wang, Ben Chen, Zhaowei Miao

S3 - Evolutionary and Genetic Algorithms

Evolutionary Public-Key Cryptographic Circuits
Nadia Nedjah, Luiza de Macedo Mourelle

Automatic Selection of Cutting Tools Geometry using an Evolutionary Approach
Orlando Duran, Nivaldo Rodriguez, Luiz Airton Consalter

Test Pattern Generator Design Optimization Based on Genetic Algorithm
Tomasz Garbolino, Gregor Papa

Solving Stochastic Path Problem: Particle Swarm Optimization Approach
Saeedeh Momtazi, Somayeh Kafi, Hamid Beigy

A Dynamic Population Steady-State Genetic Algorithm for the Resource-Constrained Project Scheduling Problem
Mariam Cervantes, Antonio Lova, Pilar Tormos, Federico Barber

S4 - Special Session: Knowledge Driven Manufacturing Systems

A declarative framework for constrained search problems
Paweł Sitek, Jarosław Wikarek

Addition and Deletion of Agent Memories to Realize Autonomous Decentralized Manufacturing Systems
Yamamoto Hidehiko

Investigation of Influence of Grinding Regimes on Surface Tension State
Halas Witold, Taranenko Victor, Swic Antoni, Taranenko Georgij

Estimating Flexibility Requirements in a Demand-driven Lean/JIT Environment
Peter Nielsen, Kenn Steger-Jensen

Constraint programming approach to time-window and multiresource-constrained projects portfolio prototyping
Irena Bach, Grzegorz Bocewicz, Zbigniew Banaszak

S5 - Special Session: Joint Session on Adaptive Networked Systems and Fuzzy Knowledge Bases

Adaptive E-Learning: an Architecture based on PROSA P2P Network
V. Carchiolo, A. Longheu, G. Mangioni, V. Nicosia

Real-Time Car License Plate Recognition Improvement based on Spatiognitron Neural Network
Dariusz Król, Maciej Maksym

Handling Dynamic Networks Using Evolution in Ant-Colony Optimization
Christopher Roach, Ronaldo Menezes

Rule Bases Integration on the Example of a Fuzzy Model of WIG20
Izabela Rejer

Meta-heuristic Algorithm for the Transshipment Problem with Fixed Transportation Schedules
Zhaowei Miao, Ke Fu, Qi Fei, Fan Wang

S6 - Special Session: Software Agents & Multi-Agent Systems

Proposal for Agent Platform Dynamic Interoperation Facilitating Mechanism
Xiaolu Li, Takahiro Uchiya, Susumu Konno, Tetsuo Kinoshita

A Formal Framework of Conversational Goals based on Strategic Reasoning

Mohamed Mbarki, Jamal Bentahar, Bernard Moulin

An Auction-Based System for Workforce Resource Allocation
Nadim Haque, Botond Virginas, Mathias Kern, Gilbert Owusu

Scenario Description Language for Multi-Agent Systems
Armin Stranjak, Igor Cavrak, Mario Zagar

The CrocodileAgent: A Software Agent for SCM Procurement Gaming
Tvrtko Milicic, Vedran Podobnik, Ana Petric, Gordan Jezic

S7 - Fuzzy Systems and Applications

Tool Condition Monitoring using the TSK Fuzzy Approach based on Subtractive Clustering Method

Qun Ren, Marek Balazinski, Luc Baron, Krzysztof Jemielniak

Admissible Fuzzy Controller in L2 Space

Takashi Mitshuishi, Yasunari Shidama

Application of Fuzzy Cognitive Maps for Stock Market Modeling and Forecasting

Wojciech Froelich, Alicja Wakulicz-Deja

Fuzzy ARTMAP Neural Network for Classifying the Financial Health of a Firm

Anatoli Nachev

Fuzzy Interpolative Reasoning Using Interval Type-2 Fuzzy Sets

Li-Wei Lee, Shyi-Ming Chen

Fuzzy Measurement of the Number of Persons on the Basis of the Photographic Image

Dariusz Król, Michał Lower

S8 - Application Systems

Planning with Multiple-Components in OMPS

Amedeo Cesta, Simone Fratini, Federico Pecora

The Contact Scheduling Process of the Galileo Navigation System

Tiago Franco, Flávio Moreira, Stewart Hall, Henrique Oliveira

Novel Extension of k-TSP Algorithm for Microarray Classification

Marcin Czajkowski, Marek Krętowski

Simultaneous Vehicle and Crew Scheduling for Extra Urban Transports

Benoît Laurent, Jin-Kao Hao

SitCom: Virtual Smart-room Environment for Multi-modal Perceptual Systems

Jan Curín, Jan Kleindienst

S9 - Agent-Based System

Individualism and Collectivism in Trade Agents

Gert Jan Hofstede, Catholijn M. Jonker, Tim Verwaart

Adding Attentional Capabilities Features to an Intelligent Virtual Agent

Brunny Troncoso P., Ricardo Imbert P., Angélica de Antonio

Adaptive Power Management Based on Reinforcement Learning for Embedded System

Cheng-ting Liu, Roy Chaoming Hsu

Hybrid MAS GIS Coastal Systems Modeling Methodology

Dominique Urbani, Marielle Delhom

A Hybrid Multi-Agent Model for Financial Markets

Stephen Chen, Jonathan Tien, Brenda Spotton Visano

A Teleo-Reactive Architecture for Fast, Reactive and Robust Control of Mobile Robots

Gerhard Gubisch, Gerald Steinbauer, Martin Weiglhofer, Franz Wotawa

S10 - Data Mining & KDS (1)

Document Clustering based on Spectral Clustering and Non-negative Matrix Factorization

Lei Bao, Sheng Tang, Jintao Li, Yongdong Zhang, Wei-ping Ye

Application of Data Mining Algorithms to TCP Throughput Prediction in HTTP Transactions

Leszek Borzemski, Marta Kliber, Ziemowit Nowak

Incremental Mining with Prelarge Trees

Chun-Wei Lin, Tzung-Pei Hong, Wen-Hsiang Lu

Learning Higher Accuracy Decision Trees from Concept Drifting Data Streams

Satoru Nishimura, Masahiro Terabe, Kazuo Hashimoto, Koichiro Mihara

Ontology-driven approximate duplicate elimination of postal addresses

Matteo Cristani, Alessio Gugole

S11 - Natural Language Processing and Application Systems

A New Word Clustering Method for Building N-gram Language Models in Continuous Speech Recognition Systems

Mohammad Bahrani, Hossein Sameti, Nazila Hafezi, Saeedeh Momtazi

Integrating Topic Estimation and Dialogue History for Domain Selection in Multi-Domain Spoken Dialogue Systems

Satoshi Ikeda, Kazunori Komatani, Tetsuya Ogata, Hiroshi G. Okuno

The Effect of Emotional Speech on a Smart-Home Application

Theodoros Kostoulas, Iosif Mporas, Todor Ganchev, Nikos Fakotakis

A Knowledge-Based System for Fashion Trend Forecasting

Paola Mello, Sergio Storari, Bernardo Valli

Optimizing Building's Environments Performance Using Intelligent Systems

E. Sierra, A. Hossian, D. Rodríguez, M. García-Martínez, P. Britos, R. García-Martínez

S12 - Internet Application & Education and Neural Networks

Another Face of Search Engine: Web Search API's

Harshit Kumar, Sanggil Kang

The consistency and conformance of Web document collection based on heterogeneous DAC graph

Marek Kopel, Aleksander Zgrzywa

Pedagogical Protocols Selection Automatic Assistance

Paola Britos, Zulma Cataldi, Enrique Sierra, Ramón García-Martínez

An Empirical Investigation of the Use of a Neural Networks Committee for Identifying the Streptococcus Pneumoniae Growth Phases in Batch Cultivations

Antonio C. L. Horta, Teresa C. Zangirolami, Maria do Carmo Nicoletti, Luciana Montera, Talita S. Carmo, Viviane M. Gonçalves

Optimal Sizing and Siting of Distributed Energy Resources Considering Public and Private Incentive Policies

Angelo Campoccia, Eleonora Riva Sanseverino, Gaetano Zizzo

S13 - Data Mining & KDS (2)

Recommending Software Artifacts From Repository Transactions

Joern David

Ranking Links on the Web: Search and Surf Engines

Jean-Louis Lassez, Ryan Rossi, Kumar Jeev

Cluster Analysis for Users' Modeling in Intelligent E-learning Systems

Danuta Zakrzewska

Access Control for XML Document

Yun Bai

S14 - Robot and Manufacturing

A Cross-Platform Robotic Architecture for Autonomous Interactive Robots

Yasser F. O. Mohammad, Toyoaki Nishida

Match-up Strategies for Job Shop Rescheduling

Patrick Moratori, Sanja Petrovic, Antonio Vázquez

Entropy Based Diversity Measures in Evolutionary Mobile Robot Navigation

Tomás Arredondo V., Wolfgang Freund, César Muñoz

Intelligent System for Traffic Signs Recognition in Moving Vehicles

Bogusław Cyganek

S15 - Heuristic Search (1)

Lagrangian-Based Solution Approaches for a Resource-Constrained Parallel Machine Scheduling Problem with Machine Eligibility Restrictions

Emrah B. Edis, Ceyhun Araz, Irem Ozkarahan

A Hierarchy of Twofold Resource Allocation Automata Supporting Optimal Web Polling

Ole-Christoffer Granmo, B. John Oommen

A Heuristic Search for Optimal Parameter Values of Three Biokinetic Growth Models for Describing Batch Cultivations of Streptococcus Pneumoniae in Bioreactors

Luciana Montera, Antonio C. L. Horta, Teresa C. Zangirolami, Maria do Carmo Nicoletti, Talita S. Carmo, Viviane M. Gonçalves

Efficient Handling of Relational Database Combinatorial Queries using CSPs

Malek Mouhoub, Chang Feng

S16 - Knowledge Management**Shared Context for Knowledge Distribution: a Case Study of Collaborative Taggings***Jason J. Jung*

Modelling and Automated Analysis of Organisations from the Air Traffic Management Domain

Alexei Sharpanskykh

Visualized Technique for Trend Analysis of News Articles

Masahiro Terachi, Ryosuke Saga, Zhongqi Sheng, Hiroshi Tsuji

Solving SQL Constraints by Incremental Translation to SAT

Robin Lohfert, James J. Lu, Dongfang Zhao

Extending Knowledge Base Update into First-Order Knowledge Bases

*Ewa Madalińska-Bugaj, Witold Łukaszewicz***S17 - Machine Learning**

Test Case Generation from QR Models

Harald Brandl, Franz Wotawa

Shape-based Human Activity Recognition Using Independent Component Analysis and Hidden Markov Model

Md. Zia Uddin, J.J. Lee, T.-S. Kim

Potential Distribution Modelling Using Machine Learning

Ana C. Lorena, Marinez F. de Siqueira, Renato De Giovanni, André C. P. L. F. de Carvalho, Ronaldo C. Prati

A Cluster-Based Classification Approach to Semantic Role Labeling

Necati E. Ozgencil, Nancy McCracken, Kishan Mehrotra

Data Reduction Algorithm for Machine Learning and Data Mining

*Ireneusz Czarnowski, Piotr Jędrzejowicz***S18 - Heuristic Search (2)**

Maintaining Population Diversity in Evolution Strategy for Engineering Problems

Roman Dębski, Rafał Dreżewski, Marek Kisiel-Dorohinicki

Clustering of Gene Expression Data with Quantum-Behaved Particle Swarm Optimization

Wei Chen, Jun Sun, Yanrui Ding, Wei Fang, Wenbo Xu

Ant Colony Optimization for the Single Machine Total Earliness Tardiness Scheduling Problem

Rym M'Hallah, Ali Alhajraf

Tuning Constrained Objects

Ricardo Soto, Laurent Granvilliers

Suboptimal Nonlinear Predictive Control with MIMO Neural Hammerstein Models

Maciej Ławryńczuk

NCAIT Session (posters)

NCAIT-1

A Comparative Study Between Human-Human Interaction and Human Robot Interaction

KangWoo Lee, Jung-Hoon Hwang, Dong-Soo Kwon

Dialogue and Argumentation in Multi-Agent Diagnosis

Asma Moubaidin, Nadim Obeid

Reinforcement Q-Learning and Neural Networks to Acquire Negotiation Behaviors

Amine Chohra, Kurosh Madani, Dalel Kanzari

getALife - An Artificial Life Environment for the Evaluation of Agent-Based Systems and Evolutionary Algorithms for Reinforcement Learning

Daniel Machado, Miguel Rocha

An Approach to Efficient Trading Model of Hybrid Traders Based on Volume Discount

Satoshi Takahashi, Tokuro Matsuo

Improving the Efficiency of Low-Level Decision Making in Robosoccer Using Boosted SVM

Pravin Chandrasekaran, Muthucumaraswamy R

Closed Pattern Mining for the Discovery of User Preferences in a Calendar Assistant

Alfred Krzywicki, Wayne Wobcke

An implementation of Goal-Oriented Fashion Recommendation System

Mikito Kobayashi, Fumiaki Minami, Takayuki Ito, Satoshi Tojo

A Proposal on Recommender System Based on Observing Web-Chatting
Fumiaki Minami, Mikito Kobayashi, Takayuki Ito

Ontological Query Processing and Maintaining Techniques for FAQ Systems
Sheng-Yuan Yang

On Human Resource Adaptability in an Agent-Based Virtual Organization
Costin Bădică, Elvira Popescu, Grzegorz Frackowiak, Maria Ganzha, Marcin Paprzycki, Michal Szymczak, Myon-Woong Park

On the Pursuit of a Standard Language for Object-Oriented Constraint Modeling
Ricardo Soto, Laurent Granvilliers

A Layered Ontology-Based Architecture for Integrating Geographic Information
Agustina Buccella, Domenico Gendarmi, Filippo Lanubile, Giovanni Semeraro, Alejandra Cechich, Attilio Colagrossi

Generalizing the QSQR Evaluation Method for Horn Knowledge Bases
Ewa Madalińska-Bugaj, Linh Anh Nguyen

On Vowels Segmentation and Identification Using Formant Transitions in Continuous Recitation of Quranic Arabic
Hafiz Rizwan Iqbal, Mian Muhammad Awais, Shahid Masud, Shafay Shamail

Adaptation of FCANN Method to Extract and Represent Comprehensible Knowledge from Neural Networks
Sérgio Mariano Dias, Bruno Magalhães Nogueira, Luis Enrique Zárate

Video Similarity Measurement Based on Attributed Relational Graph Matching
Ines Karouia, Ezzeddine Zagrouba, Walid Barhoumi

NCAIT-2

A Knowledge-Based System for CMM Evaluation
Javier Andrade, Juan Ares, Rafael García, Santiago Rodríguez, María Seoane, Sonia Suárez

Gating Artificial Neural Network Based Soft Sensor
Petr Kadlec, Bogdan Gabrys

A Classification Method of Users Opinions Using Category-Based Dictionary Generated from Answers in Open-Ended Questionnaire System
Keisuke Negoro, Hiroaki Oiso, Masanori Akiyoshi, Norihisa Komoda

Training of Classifiers for the Recognition of Musical Instrument Dominating in the Same-Pitch Mix
Alicja Wieczorkowska, Elżbieta Kolczyńska, Zbigniew W. Ras

Impact of Fuzzy Logic in the Cooperation of Metaheuristics
Jose Manuel Cadenas, Maria del Carmen Garrido, Enrique Muñoz

An OCL-Based CSP Specification and Solving Tool
Samira Sadaoui, Malek Mouhoub, Xiaofeng Li

Effects of At-Home Nursing Service Scheduling in Multiagent Systems
Hiroshi Date, Tokuro Matsuo

Greedy and Exact Algorithms for Invitation Planning in Cancer Screening
Marco Gavanelli, Michela Milano, Sergio Storari, Luca Tagliavini, Paola Baldazzi, Marilena Manfredi, Gianfranco Valastro

A Comparison of Three Meta-Heuristics for a Closed-Loop Layout Problem with Unequal-Sized Facilities
Hadi Panahi, Masoud Rabbani, Reza Tavakkoli-Moghaddam

A Genetic Algorithm with Multiple Operators for Solving the Terminal Assignment Problem
Eugénia Moreira Bernardino, Anabela Moreira Bernardino, Juan Manuel Sánchez-Pérez, Juan Antonio Gómez-Pulido, Miguel Ángel Vega-Rodríguez

An Efficient Hybrid Method for an Expected Maximal Covering Location Problem
R. Tavakkoli-Mogahddam, V. R. Ghezavati, A. Kholi, M. Rabbani

Multi-Sided Matching Lecture Allocation Mechanism
Yoshihito Saito, Takayuki Fujimoto, Tokuro Matsuo

AlineaGA: a Genetic Algorithm for Multiple Sequence Alignment
Fernando José Mateus da Silva, Juan Manuel Sánchez Pérez, Juan Antonio Gómez Pulido, Miguel Ángel Vega Rodríguez

Investigation of Strategies for the Generation of Multiclass Support Vector Machines
Ana Carolina Lorena, André C. P. L. F. de Carvalho

Multiagent Monitoring System for Complex Network Infrastructure
Marcin M. Michalski, Tomasz Walkowiak

Multiagent Approach to Autonomous Reorganization of Monitoring Task Delegation in Distributed IDS
Karolina Jeleń, Piotr Kalinowski, Wojciech Lorkiewicz, Grzegorz Popek

An Intelligent Service Strategy in Linked Networks with Blocking and Feedback

Walenty Oniszczyk

*Advances in Automated Source-Level Debugging of Verilog Designs
Bernhard Peischl, Naveed Riaz, Franz Wotawa*

CONTACT:

Tel.: (available later)

Fax: +48 71 3204352

E-mail: iea-aie@pwr.wroc.pl

Spyware Prevention by Classifying End User License Agreements

Niklas Lavesson, Paul Davidsson, Martin Boldt, Andreas Jacobsson

*An Application of LS-SVM Method for Clustering in Wireless Sensor Networks
Jerzy Martyna*

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