

**IEA/AIE-2007 program**

ver. 2007/06/18

**2007/06/26(Tue)** [Best Paper Candidates are marked by (\*).]

Day	Time	Session [Room]	Title	Authors	
Jun 26 (Tue)	9:30-9:50	[Centennial Hall]	Opening		
	9:50-10:50	Keynote [Centennial Hall]	Towards New Content Services by Fusion of Web and Broadcasting Contents (p.1-)	Katsumi Tanaka	
	10:50-11:15	Coffee Break			
	11:15-12:30	Text Processing [Kokusai Hall II]	(*) Text Classification for Healthcare Information Support (p.44-)		Rey-Long Liu
			A Simple Probability Based Term Weighting Scheme for Automated Text Classification (p.33-)		Ying Liu, Han Tong Loh
			A Collocation-Based WSD Model: RFR-SUM (p.23-)		Weiguang Qu, Zhifang Sui, Genlin Ji, Shuwen Yu, Junsheng Zhou
		[Special] Fuzzy System Applications I [Kokusai Hall I]	Nurse Scheduling Using Fuzzy Multiple Objective Programming (p.54-)		Seyda Topaloglu, Hasan Selim
			Fuzzy Adaptive Threshold Determining in the Key Inheritance Based Sensor Networks (p.64-)		Hae Young Lee, Tae Ho Cho
			(*) A New Approach for Evaluating Students' Answerscripts Based on Interval-Valued Fuzzy Sets (p.74-)		Hui-Yu Wang, Shyi-Ming Chen
		Vision I [Meeting Room III]	An Intelligent Multimedia E-Learning System for Pronunciations (p.84-)		Wen-Chen Huang, Tsai-Lu Chang-Chien, Hsiu-Pi Lin
			Phase-Based Feature Matching under Illumination Variances (p.94-)		Masaaki Nishino, Atsuto Maki, Takashi Matsuyama
			Text Extraction for Spam-Mail Image Filtering Using a Text Color Estimation Technique (p.105-)		Ji-Soo Kim, Soo-Hyung Kim, Hyung-Jeong Yang, Hwa-Jeong Son, Won-Pil Kim
			Lunch		
	14:00-15:15	[Special] Real World Interaction [Kokusai Hall II]	Intention through Interaction: Toward Mutual Intention in Real World Interactions (p.115-)		Yasser Mohammad, Toyoaki Nishida
			An Interactive Framework for Document Retrieval and Presentation with Question-Answering Function in Restricted Domain (p.126-)		Teruhisa Misu, Tatsuya Kawahara
			Generating Cartoon-Style Summary of Daily Life with Multimedia Mobile Devices (p.135-)		Sung-Bae Cho, Kyung-Joong Kim, Keum-Sung Hwang
		[Special] Fuzzy System Applications II [Kokusai Hall I]	Economic Turning Point Forecasting Using Neural Network with Weighted Fuzzy Membership Functions (p.145-)		Soo Han Chai, Joon Shik Lim
			A New Approach for Automatically Constructing Concept Maps Based on Fuzzy Rules (p.155-)		Shih-Ming Bai, Shyi-Ming Chen
			(*) Application of Fuzzy Logic for Adaptive Interference Canceller in CDMA Systems (p.166-)		Yung-Fa Huang, Ping-Ho Ting, Tan-Hsu Tan
		Vision II [Meeting Room III]	Robust Multi-scale Full-band Image Watermarking for Copyright Protection (p.176-)		Jung-Chun Liu, Chu-Hsing Lin, Li-Ching Kuo, Jen-Chieh Chang
			Perimeter Intercepted Length and Color t-value as Features for Nature-Image Retrieval (p.185-)		Yung-Fu Chen, Meng-Hsiun Tsai, Chung-Chuan Cheng, Po-Chou Chan, Yuan-Heng Zhong
			Selecting an Appropriate Segmentation Method Automatically Using ANN Classifier (p.195-)		Yih-Chih Chiou, Meng-Ru Tsai
		15:15-15:40	Coffee Break		

Jun 26 (Tue)	15:40-17:20	Genetic Algorithm I [Kokusai Hall II]	Efficient Reinforcement Hybrid Evolutionary Learning for Recurrent Wavelet-Based Neuro-Fuzzy Systems (p.207-)	Cheng-Hung Chen, Cheng-Jian Lin, Chi-Yung Lee
			A Relation-Based Genetic Algorithm for Partitioning Problems with Applications (p.217-)	Jiah-Shing Chen, Yao-Tang Lin, Liang-Yu Chen
			Constrained optimization of a newsboy problem with return policy using KKT conditions and GA (p.227-)	P. C. Yang, H. M. Wee, S. L. Chung, S. H. Kang
		[Special] Fuzzy System Application III [Kokusai Hall I]	Fuzzy Interpolative Reasoning via Cutting and Transformations Techniques (p.238-)	Yaun-Kai Ko, Shyi-Ming Chen
			Using Fuzzy Theory for Packaging Attribute Deployment for New Notebook Computer Introduction (p.250-)	Hsin Rau, Chien-Ping Liao, Wei-Jung Shiang, Chiu-Hsiang Lin
			Fuzzy System Model to Assist with Real Estate Appraisals (p.260-)	Dariusz Krol, Tadeusz Lasota, Wojciech Nalepa, Bogdan Trawinski
		Robot [Meeting Room III]	Application of Fuzzy System on a Server-Dependent Queue Modeled with Empirical Bayesian Estimation (p.270-)	Pei-Chun Lin, Jenhung Wang
			Real-Time Auditory and Visual Talker Tracking through integrating EM algorithm and Particle Filter (p.280-)	Hyun-Don Kim, Kazunori Komatani, Tetsuya Ogata, Hiroshi G. Okuno
			Self-organizing Multiple Models for Imitation: Teaching a Robot to dance the YMCA (p.291-)	Axel Tidemann, Pinar Öztürk
	An efficient flow-shop scheduling algorithm based on a hybrid particle swarm optimization model (p.303-)		I-Hong Kuo, Shi-Jinn Horng, Tzong-Wann Kao, Tsung-Lieh Lin, Pingzhi Fan	
			Towards the Automated Design of Phased Array Ultrasonic Transducers - Using Particle Swarms to find "Smart" Start Points (p.313-)	Stephen Chen, Sarah Razzaqi, Vincent Lupien
	17:20-18:00	Break		
	18:00-20:00	Welcome reception & Posters [Kokusai Hall II & III]	Solution of the Perspective-Three-Point problem (p.324-)	Loic Merckel, Toyoaki Nishida
			A Decision Support System For Underground Mining Method Selection (p.334-)	Serafettin Alpay, Mahmut Yavuz
			Efficient Modified Bidirectional A* Algorithm for Optimal Route-Finding (p.344-)	Taeg Keun Whangbo
Toward A Large Scale E-Market : A Greedy and Local Search based Winner Determination (p.354-)			Naoki Fukuta, Takayuki Ito	
Agent Based Dynamic Job Shop Simulation System (p.364-)			Serafettin ALPAY	
A Manufacturing-Environmental Model using Bayesian Belief Networks for Assembly Design Decision Support (p.374-)			Wooi Ping Cheah, Kyoung-Yun Kim, Hyung-Jeong Yang, Sook-Young Choi, Hyung-Jae Lee	
Evaluation of Two Simultaneous Continuous Speech Recognition with ICA BSS and MFT-based ASR (p.384-)			Ryu Takeda, Shunichi Yamamoto, Kazunori Komatani, Tetsuya Ogata, Hiroshi G. Okuno	
Knowledge Based Discovery in Systems Biology using CF-Induction (p.395-)			Andrei Doncescu, Katsumi Inoue, Yoshitaka Yamamoto	
Environment Recognition System for Biped Walking Robot Using Vision based Sensor Fusion (p.405-)			Tae-Koo Kang, Heejun Song, Dongwon Kim, Gwi-Tae Park	
		Design of a SOA-oriented E-diagnostics System for Hydroelectric Generating Sets (p.415-)	Liangliang Zhan, Yongchuan Zhang, Jianzhong Zhou, Yucheng Peng, Zheng Li	

2007/06/27(Wed)

[Best Paper Candidates are marked by (\*).]

Day	Time	Session	Title	Authors
Jun 27 (Wed)	9:20-10:20	Keynote [Kokusai Hall I & II]	Pattern Discovery from Graph-Structured Data - A Data Mining Perspective - (p.12-)	Hiroshi Motoda
	10:20-10:50	Coffee Break		
	10:50-12:30	Genetic Algorithm II [Kokusai Hall II]	A Systematic Layout Planning of Visualizing Devices on a Non-Rectangular Plane by Genetic Heuristics (p.424-)	Chir-Ho Chang, Jin-Ling Lin
			Promising Search Regions of Crossover Operators for Function Optimization (p.434-)	Hiroshi Someya
			Automatic Fingerprints Image Generation Using Evolutionary Algorithm (p.444-)	Ung-Keun Cho, Jin-Hyuk Hong, Sung-Bae Cho
			A Hybrid Genetic Algorithm for the Cut Order Planning Problem (p.454-)	Ahlem Bouziri, Rym M'Hallah
		Fuzzy logic I [Kokusai Hall I]	Supervised Adaptive Control of Unknown Nonlinear Systems Using Fuzzily Blended Time-Varying Canonical Model (p.464-)	Yau-Zen Chang, Zhi-Ren Tsai
			Multi-agent system with hybrid intelligence using neural network and fuzzy inference techniques (p.473-)	Kevin I-Kai Wang, Waleed H. Abdulla, Zoran Salcic
			Analysis of log files applying mining techniques and fuzzy logic (p.483-)	Victor H. Escobar-Jeria, Maria J. Martin-Bautista, Daniel Sanchez, Maria-Amparo Vila
		Manufacturing [Meeting Room III]	Stability Analysis for Nonlinear Systems Subjected to External Force (p.493-)	Ken Yeh, Cheng-Wu Chen, Shu-Hao Lin, Chen-Yuan Chen, Chung-Hung Tsai, Jine-Lih Shen
			Integrated Framework for Reverse Logistics (p.501-)	Heng-Li Yang, Cheng-Su Wang
			(* Screening paper formation variations on production line (p.511-)	Marcus Ejnarsson, Carl Magnus Nilsson, Antanas Verikas
			Multi-Modal Data Integration Using Graph for Collaborative Assembly Design Information Sharing and Reuse (p.521-)	Hyung-Jae Lee, Kyoung-Yun Kim, Hyung-Jeong Yang, Soo-Hyung Kim, Sook-Young Choi
		Enhanced Probabilistic Filtering for Improving the Efficiency of Local Searches (p.531-)	ByoungHo Kang, Kwang Ryel Ryu	
	12:30-14:00	Lunch		

Jun 27 (Wed)	14:00-15:40	Data Mining I <i>[Kokusai Hall II]</i>	A Weighted Feature C-means Clustering Algorithm for Case Indexing and Retrieval in Cased-Based Reasoning (p.541-)	Chuang-Cheng Chiu, Chieh-Yuan Tsai
			NEURAL NETWORKS FOR INFLOW FORECASTING USING PRECIPITATION INFORMATION (p.552-)	Karla Figueiredo, Carlos Barbosa, André Cruz, Marley Vellasco, Marco Pacheco, Roxana Conteras
			A Gradational Reduction Approach for Mining Sequential Patterns (p.562-)	Jen-Peng Huang, Guo-Cheng Lan, Huang-Cheng Kuo
			A Kernel Method for Measuring Structural Similarity between XML Documents (p.572-)	Buhwan Jeong, Daewon Lee, Hyunbo Cho, Boonserm Kulvatunyou
		Neural network I <i>[Kokusai Hall I]</i>	(* ) Enhanced Neural Filter Design and Its Application to the Active Control of Nonlinear Noise (p.611-)	Cheng-Yuan Chang, I-Ling Chung, Chang-Min Chou, Fuh-Hsin Hwang
			(* ) Novelty Detection in Large-Vehicle Turbocharger Operation (p.591-)	David Clifton, Peter Bannister, Lionel Tarassenko
			Equalization of 16 QAM Signals with Reduced BiLinear Recurrent Neural Network (p.601-)	Dong-Chul Park, Yunsik Lee
			A Neural Network based Data Least Square Algorithm for Channel Equalization (p.582-)	Jun-Seok Lim
		Constraint Satisfaction <i>[Meeting Room III]</i>	Case Analysis of Criminal Behaviour (p.621-)	Tibor Bosse, Charlotte Gerritsen, Jan Treur
			PrDLs: A New kind of Probabilistic Description Logics About Belief (p.644-)	Jia Tao, Zhao Wen, Wang Hanpin, Wang Lifu
			(* ) Diagnosing Dependent Failures in the Hardware and Software of Mobile Autonomous Robots (p.633-)	Joerg Weber, Franz Wotawa
			(* ) Multi-constraint System Scheduling Using Dynamic and Delay Ant Colony System (p.655-)	Shih-Tang Lo, Ruey-Maw Chen, Yueh-Min Huang
	15:40-16:00	<b>Coffee Break</b>		
	16:00-17:15	Data Mining II <i>[Kokusai Hall II]</i>	Constructing Domain Ontology Using Structural and Semantic Characteristics of Web-table Head (p.665-)	Sung-won Jung, Mi-young Kang, Hyuk-chul Kwon
			Maintenance of Fast Updated Frequent Trees for Record Deletion Based on Prelarge Concepts (p.675-)	Chun-Wei Lin, Tzung-Pei Hong, Wen-Hsiang Lu, Chih-Hung Wu
			Solving a Committee Formation and Scheduling Problem by Frequent Itemset Mining (p.685-)	Chienwen Wu
		Neural network II <i>[Kokusai Hall I]</i>	Dual Gradient Descent Algorithm On Two-Layered Feed-Forward Artificial Neural Networks (p.696-)	Bumghi Choi, Ju-Hong Lee, Tae-Su Park
			A New Hybrid Learning Algorithm for Drifting Environments (p.705-)	Khosrow Kaikhah
			Solving Inequality Constraints Job Scheduling Problem by Slack Competitive Neural Scheme (p.715-)	Ruey-Maw Chen, Shih-Tang Lo, Yueh-Min Huang
Fuzzy logic II <i>[Meeting Room III]</i>		Intelligent OS Process Scheduling Using Fuzzy Inference with User Models (p.725-)	Sungsoo Lim, Sung-Bae Cho	
		Cardinality-based Fuzzy Time Series for Forecasting Enrollments (p.735-)	Jing-Rong Chang, Ya-Ting Lee, Shu-Ying Liao, Ching-Hsue Cheng	
		A New Fuzzy Interpolative Reasoning Method for Sprase Fuzzy Rule-Based Systems (p.745-)	Li-Wei Lee, Shyi-Ming Chen	

2007/06/28(Thu)

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Day	Time	Session	Title	Authors
Jun 28 (Thu)	9:30-10:45	Machine Learning I [Kokusai Hall II]	A new Multi-Class Support Vector Machine with Multi-Sphere in the Feature Space (p.756-)	Pei-Yi Hao, Yen-Hsiu Lin
			Construction of Prediction Module for Successful Ventilator Weaning (p.766-)	Jiin-Chyr Hsu, Yung-Fu Chen, Hsuan-Hung Lin, Chi-Hsiang Li, Xiaoyi Jiang
			Extension of ICF Classifiers to Real World Data Sets (p.776-)	Kazuya Haraguchi, Hiroshi Nagamochi
		[Special] Chance Discovery and Social Network I [Kokusai Hall I]	Hierarchical Visualization for Chance Discovery (p.786-)	Brett Bojduj, Clark Turner
			Episodic memory for ubiquitous multimedia contents management system (p.796-)	Kyung-Joong Kim, Myung-Chul Jung, Sung-Bae Cho
			Catalyst personality for fostering communication among groups with opposing preference [short] (p.806-)	Yoshiharu Maeno, Yukio Ohsawa, Takaichi Ito
		Education [Meeting Room III]	On Using Learning Automata to Model a Student's Behavior in a Tutorial-like System (p.813-)	Khaled Hashem, John Oommen
			Test-Sheet Composition Using Immune Algorithm for E-Learning Application (p.823-)	Chin-Ling Lee, Chih-Hui Huang, Cheng-Jian Lin
			PDA Plant Search System Based on the Characteristics of Leaves Using Fuzzy Function (p.834-)	Shu-Chen Cheng, Jhen-Jie Zhou, Bing-Hong Liou
	10:45-11:05	Coffee Break		
	11:05-12:20	Machine Learning II [Kokusai Hall II]	Stochastic Point Location in Non-Stationary Environments and Its Applications (p.845-)	John Oommen, Sang-Woon Kim, Mathew Samuel, Ole-Christoffer Granmo
			(* Quick Adaptation to Changing Concepts by Sensitive Detection (p.855-)	Yoshiaki Yasumura, Naho Kitani, Kuniaki Uehara
			ACIK: Association Classifier based on Itemset Kernel (p.865-)	Yang ZHANG, Yongge LIU, Jing XU, Jianfeng YAN
		[Special] Chance Discovery and Social Network II [Kokusai Hall I]	Risk Discovery Based on Recommendation Flow Analysis on Social Networks (p.876-)	Jason Jung, Geun-Sik Jo
			Using Conceptual Scenario Diagrams and Integrated Scenario Map to Detect the Financial Trend (p.886-)	Chao-Fu Hong, Tzu-Fu Chiu, Yu-Ting Chiu, Mu-Hua Lin
			Chance Discovery in Credit Risk Management - Estimation of chain reaction bankruptcy structure by directed KeyGraph (p.896-)	Shinichi Goda, Yukio Ohsawa
		Speech [Meeting Room III]	The Design of Phoneme Grouping for Coarse Phoneme Recognition (p.905-)	Kazuhiro Nakadai, Ryota Sumiya, Mikio Nakano, Koichi Ichige, Yasuo Hirose, Hiroshi Tsujino
			An Improved Voice Activity Detection Algorithm for GSM Adaptive Multi-Rate Speech Codec Based on Wavelet and Support Vector Machine (p.915-)	Shi-Huang Chen, Yaotsu Chang, T. K. Truong
			The PICA Framework for Performance Analysis of Pattern Recognition Systems and Its Application in Broadcast News Segmentation (p.925-)	Xiangdong Wang, Meiyin Li, Shouxun Lin, Yueqiang Qian, Qun Liu
	12:20-14:00	Lunch		

Jun  
28  
(Thu)

14:00-15:40	[Special] E-commerce I [Kokusai Hall II]	The theory of maximal social welfare feasible coalition (p.935-)	Laor Boongasame, Veera Boonjing, Ho-fung Leung
		Recommender Agent Based on Social Network (p.943-)	Heng-Li Yang, Hsiao-Fang Yang
		A New Pooled Buying Method based on Risk Management (p.953-)	Tokuro Matsuo
		The Representation of e-Contracts as Default Theories (p.963-)	Georgios K. Giannikis, Aspasia Daskalopulu
	Heuristic Search I [Kokusai Hall I]	Competitive Ant Colony Optimisation (p.974-)	Marcus Randall
		Optimization of Dynamic Combinatorial Optimization Problems through Truth Maintenance (p.984-)	Brett Bojduj, Dennis Taylor, Franz Kurfess
		A Microcanonical Optimization Algorithm for BDD Minimization Problem (p.992-)	Sang-Young Cho, Minna Lee, Yoojin Chung
		A lot size model for deteriorating inventory with back-order cancellation (p.1002-)	Peng Sheng You, Yi-Chih Hsieh
	Application Systems [Meeting Room III]	(* ) An Intermodal Transport Network Planning Algorithm using Dynamic Programming (p.1012-)	Jae Hyung Cho, Hyun Soo Kim, Hyung Rim Choi, Nam Kyu Park, Moo Hong Kang
		Immune Inspired Optimizer of Combustion Process in Power Boiler (p.1022-)	Konrad Swirski, Konrad Wojdan
		Dynamic Search Spaces for Coordinated Autonomous Marine Search and Tracking (p.1032-)	Benjamin Lavis, Tomonari Furukawa
		Composite Endoscope Images from Massive Inner Intestine Photos (p.1042-)	Eunyoung Kim, Kwan-Hee Yoo, Je-Hoon Lee, Yong-Dae Kim, Younggap You
	15:40-16:00	Coffee Break	
16:00-17:15	[Special] E-commerce II [Kokusai Hall II]	Using Trust in Collaborative Filtering Recommendation (p.1052-)	Chein-Shung Hwang, Yu-Pin Chen
		AdaptRank: A Hybrid Method for Improving Recommendation Recall (p.1061-)	Maciej Kiewra, Ngoc Thanh Nguyen
		Combinatorial Auction with Minimal Resource Requirements [short] (p.1072-)	Fu-Shiung Hsieh
	Agent-based System [Kokusai Hall I]	Effectiveness of Autonomous Network Monitoring based on Intelligent-Agent-mediated Status Information (p.1078-)	Susumu Konno, Sameera Abar, Yukio Iwaya, Tetsuo Kinoshita
		Design and Implementation of Interactive Design Environment of Agent System (p.1088-)	Takahiro Uchiya, Takahide Maemura, Xiaolu Li, Tetsuo Kinoshita
[Meeting Room III]	An Agent-Based Approach to Knapsack Optimization Problems (p.1098-)	Sergey Polyakovsky, Rym M'Hallah	
17:15-17:45	[Kokusai Hall II]	IEA/AIE-2008 Meeting	
18:00		ISAI Meeting	
18:00		Bus Transportation	
19:00-21:00		Banquet	

2007/06/29(Fri)

[Best Paper Candidates are marked by (\*).]

Day	Time	Session	Title	Authors
Jun 29 (Fri)	9:30-11:10	Heuristic Search II <i>[Kokusai Hall II]</i>	Constraint-Based Approach for Steelmaking -- Continuous Casting Rescheduling (p.1108-)	Tieke Li, Dongfen Guo
			Study on Loop Problem in Opening Database for Chinese Chess Programs (p.1118-)	Yen Shi-Jim, Yang Tai-Ning, Chen Jr-Chang, Hsu Shun-Chin
			Job Shop Scheduling Optimization Using Multi-modal Immune Algorithm (p.1127-)	Guan-Chun Luh, Chung-Huei Chueh
			Simulated Annealing Algorithm for Solving Network Expanded Problem in Wireless ATM Network (p.1138-)	Der-Rong Din
		Other Applications <i>[Kokusai Hall I]</i>	An Intrusion Detection Based on Support Vector Machines with a Voting Weight Schema (p.1148-)	Rung-Ching Chen, Su-Ping Chen
			An Ontology-Supported and Fully-Automatic Annotation Technology for Semantic Portals (p.1158-)	Sheng-Yuan Yang
			Development and Evaluation of an Intelligent Colour Planning Support System for Townscapes (p.1169-)	Yuichiro Kinoshita, Eric Cooper, Katsuari Kamei
			A Testing Device for the Human Ability to Utilise Beneficial Environmental Features (p.1180-)	Blagovest Vladimirov, Hiromi Mochiyama, Hideo Fujimoto
	11:20-11:50	<i>[Kokusai Hall II]</i>	Closing & Lunch	