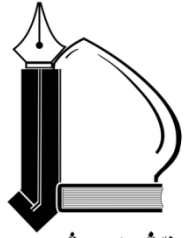


13-14 Oct 2011



International eConference on Computer and Knowledge Engineering



دانشگاه فردوسی مشهد

Program Guide



SCHEDULE AT A GLANCE

Thursday, October 13

9:00 – 10:00 Plenary talk: **Prof. Hideyuki TAKAGI**
 10:00 – 11:00 Plenary talk: **Prof. Nakhaeizadeh**
 11:00 – 14:00 Break
 14:00 – 15:40 Technical Sessions
 15:40 – 16:10 Break
 16:10 – 17:50 Technical Sessions

Friday, October 14

9:00 – 10:00 Plenary talk: **Prof. Fathi**
 10:00 – 10:30 Break
 10:30 – 12:10 Technical Sessions
 12:10 – 14:00 Break
 14:00 – 15:40 Technical Sessions

PROGRAM AT A GLANCE

	Room1	Room2	Room3	Room4
Thursday, October 13				
9:00 – 10:00	Plenary talk	Plenary talk	Plenary talk	Plenary talk
10:00 – 11:00	Plenary talk	Plenary talk	Plenary talk	Plenary talk
14:00 – 15:40	TP1-1 CN	TP1-2 IS	TP1-3 KE	TP1-4 AMV
16:10 – 17:50	TP2-1 CN	TP2-2 IS	TP2-3 KE	TP2-4 AMV
Friday, October 14				
9:00 – 10:00	Plenary talk	Plenary talk	Plenary talk	Plenary talk
10:30 – 12:10	FA1-1 CN	FA1-2 IS	FA1-3 IS	FA1-4 IS
14:00 – 15:40	FP1-1 IS	FP1-2 IS	FP1-3 IS	

CN: Computer Networks

IS: Intelligent Systems

KE: Knowledge Engineering

AMV: Application of Machine Vision

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Technical Chair	
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Knowledge Engineering	Prof. MahmoodNaghizadeh
Appl. Of Machine Vision	Dr. HadiSadooghiYazdi
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PLENARY TALKS

Thursday, October 13, 9:00 – 10:00

Interactive Evolutionary Computation: Recent Topics and Several IEC Frameworks



Prof. Hideyuki TAKAGI

Hideyuki Takagi received the degrees of Bachelor, Master, and Doctor of Engineering in 1979, 1981, and 1991, respectively. He had worked for Panasonic Central Research Laboratory in 1981-1995 and was a visiting researcher at UC Berkeley in 1991-1993. He moved Kyushu Institute of Design in 1995 as Associate Professor. The university was merged with Kyushu University in 2003, and he works for Kyushu University till now.

Hideyuki Takagi had worked on neuro-fuzzy since 1987, extended his interest in fusing technology to NN-FS-EC, and now aims Humanized Computational Intelligence that involves human factors into computational intelligence. Nowadays, he is well known as a researcher on interactive evolutionary computation.

Hideyuki Takagi has been a volunteer for IEEE Systems, Man, and Cybernetics (SMC) Society. Some of his contributions are: Vice President in 2006 - 2009: a member of Administrative Committee/Board of Governors in 2001 - 2010: Technical Committee (TC) Coordinator in 2004-2005: Chair of TC on Soft Computing in 1998-2004 and since 2008: Distinguished Lecturer in 2006 - 2011: Associate Editor of IEEE Transactions on SMC, Part B since 2001. He is/was an organizer of the special sessions at SMC2006 - SMC2011. See detail his bio at [Link](http://www.design.kyushu-u.ac.jp/~takagi/) <http://www.design.kyushu-u.ac.jp/~takagi/>

Abstract: Interactive Evolutionary Computation (IEC) is a method for optimizing target systems based on human knowledge, experiences, preference, intuition, and/or KANSE in general. There are many systems that it is hard or impossible to design fitness functions for the optimization and therefore we cannot apply conventional optimization methods including conventional evolutionary computation (EC) framework.

Firstly, we overview several IEC applications and understand what is IEC concretely as introduction.

Secondly, we explain recent three IEC research topics: (1) IEC for human science, (2) IEC with physiology, and (3) IEC with evolutionary multi-objective optimization (EMO). As IEC optimizes target systems based on human psychology or physiology, we may obtain unknown knowledge on human science by analyzing the optimized target system or human-EC interaction process. The second topic is extended IEC that optimizes target systems based on human physiological feedback. The third topic is handling EMO when some of objectives must be evaluated subjectively. In this case, conventional EMO approach cannot handle the tasks and needs to combine with human evaluation.

Thirdly, we explain some IEC frameworks that include (1) interactive PSO, (2) parallel IEC, (3) tournament IEC and simulated breeding, and (4) interactive Differential Evolution. The aim of these new IEC frameworks is to reduce IEC user fatigue by accelerating EC convergence or improving IEC interface and make the IEC a practical technique.

Thursday, October 13, 10:00 – 11:00

The Role of “Intelligence” in the Business Intelligence



Prof. Gholamreza Nakhaeizadeh

Gholamreza Nakhaeizadeh Received his BSc in Mathematics in 1970 from the University of Mashhad, his MSc in Statistics in 1975 from Institute of Statistics and Informatics Tehran, his PhD 1984 in Economics from University of Karlsruhe, Germany and his Habilitation (Post Doc.) in 1989 from the same University.

From 1978-1989 he was Research Fellow and Scientific Collaborator at University of Karlsruhe, School of Economics and from 1989-1997 Senior Scientist at Research Centre of DaimlerChrysler AG in Ulm, Germany research fields: Machine Learning and Data Mining. From 1997-2006 he was Leader of the Research Department “Data Mining Solutions” at Research Centre of DaimlerChrysler AG in Ulm.

Since 1995 he is APL-Professor for Economics and Econometrics at School of Economic, Karlsruhe Institute of Technology (former University of Karlsruhe), Germany.

He has been initiator and Co-chair of several international workshops on Machine Learning, Data Mining and Applied Econometrics. He is author of 3 monographs and about 40 refereed papers and co-editor of 8 books and Proceedings. Besides the contribution talks, he has given invited talks and tutorials, in Machine Learning and Data Mining in different conferences and universities in different countries.

More information about him is available from:
http://statistik.ets.kit.edu/download/doc_secure1/CV_Nakhaeizadeh.pdf

Abstract: For the last two decades, the term "business intelligence" (BI) haunts by the headlines of many articles, books, magazines and software advertising in

different fields. By searching for this term in internet one can get (e.g. by using search engine Google) more than 73 million entries. In many cases, however, it is unclear what exactly behind this slogan stands. The best way to find a better understanding is going back to the original definition of BI.

BI was defined for the first time by Hans Peter Luhn in the IBM-Journal in October 1958. He defines “business” as “a collection of activities carried on for whatever purpose, be it science, technology, commerce, industry, law, government, defence, et cetera”. On the other hand, Luhn defines the notion of “intelligence” also in a more general sense, as “the ability to apprehend the interrelationships of presented facts in such a way as to guide action towards a desired goal.” By precise analysis of the existing literature on BI, however, a pragmatic observer can easily determine that the notion “Business” is often reduced just to “commerce” and the notion “intelligence” -in Luhn’s sense- almost does not exist.

After a short introduction to BI and describing its short history, the speaker examines the structure of the current BI-Platforms and rises up the question “What could be the role of “Intelligence” in Business Intelligence today? He tries to answer the question from a knowledge discovery perspective.

Friday, October 14, 9:00 – 10:00

Rule based Web for empowering Small and Medium-sized Industries



Prof. MadjidFathi

MadjidFathi is a professor and chair in the Department of Electrical Engineering and Computer Science at University of Siegen. He is the director of Institute of Knowledge Based Systems and Knowledge Management (KBS & KM). He is also the founder and director of Research Center for Knowledge Management and Intelligent Systems (KMIS). His research interests are focused on Knowledge Management applications in Medicine and Engineering, Computational Intelligence and Knowledge Discovery from Text (KDT).

Madjid is the editor of Integrated Systems, Design and Technology published by Springer (2010) and also 5 edited books. He has more than 200 publications including 2 text books and 21 Journal publications, 4 paper awards and 170 platform presentations. Currently he has 2 books under preparation. He is a senior member of IEEE and member of editorial board of 5 respective journals. His latest keynote speeches since 2008 were at IEEE-EIT2008, IEEE-EIT 2009, KMIS 2009, IEEE-SMC (UK) 2009, KMI 2010 & 2011, IEEE-EIT 2011. He was a panellist at IEEE-IRI 2007, IC3K 2009, iiWAS2009.

Abstract: Besides existing technologies, Small and Medium-sized industries require novel approaches and integrated components to facilitate decision making and knowledge transfer. Knowledge Management integration in decision and problem solving endeavours provide a basis for utilizing human- and process oriented indicators towards optimizing organizational management process. We, humans, have the ability to distinguish not only between irrelevant and unimportant features but also between the important and essential ones. Knowledge browsing, retrieval and discovery (e.g. Knowledge Discovery in Databases - KDD and Knowledge Discovery from Text - KDT) through existing web technologies are arising challenges and complexities. Intelligent processing

of contents and human competencies needs innovative and adaptive strategies. In this context, Rule-based Web empowers integrating semantic techniques i.e. Rule-based techniques for complex decision making, multi-lateral indicators and human collaboration. This practice-oriented strategy (entitled as WEB.X) is currently investigated at our research center KMIS particularly in knowledge transfer for Alzheimer Patients in cooperation with University-Hospital Cologne, and for adaptive process control in semiconductor manufacturing.

TECHNICAL PROGRAM

Thursday, October 13, 14:00 – 15:40	
TP1-1 Room1	Wireless Computer Networks <i>Session Chair : Dr. Abbasi</i>
14:00	A Novel Handover Decision Algorithm based on Fuzzy Theory for Multi-Hop Cellular Wireless Access Networks Habib-Allah FattahiDoust
14:20	Accurate Measurement of Sensing Coverage Degrees in Randomly Distributed Wireless Sensor Networks Saeid Pashazadeh
14:40	BSCH : New Chain Routing Protocol with Best Selection Cluster Head in Wireless Sensor Networks MajidNoori, SayyedMajidMazinani
15:00	Novel Localization Algorithm Using Computational Geometry For Wireless Sensor Networks AbdorasoulGhasemi, Mohammad Bagheri
15:20	A Two-Level Reliable Routing Protocol In Wireless Sensor Networks MajidMazinani, Ali Naderi
TP1-2 Room2	Intelligent Data analysis <i>Session Chair : Dr. RowhaniManesh</i>
14:00	Performance Optimization of Neural Networks in Handwritten Digit Recognition Using Intelligent Fuzzy C-Means Clustering EsmailMiri, S.MohamadRazavi, Javad Sadri
14:20	Real-time Video Stabilization by Adaptive Fuzzy Filtering Mohammad JavadTanakian, Mehdi Rezaei, FarahnazMohanna
14:40	A new method to recognize the images in distributed multimedia database based on MeysamAlavi
15:00	A Reversible Data Hiding Scheme Based on Maximum Histogram Gap of Image Blocks Mohammad Reza Rahimi, HabibollahDanyali, Mohammad SadeghHelfroush, Mohammad Arabzadeh
15:20	A Novel Wavelet Based No-Search Fractal Image Compression Algorithm: How to Use the Landscape Properties Mohammad Mobasher

TP1-3 Room3	Knowledge Mining and Ontology Evaluation <i>Session Chair : Dr. GhaziZadeh</i>
14:00	A New Adaptive Algorithm for Frequent Pattern Mining over Data Streams MahmoodDeypir, Mohammad HadiSadreddini
14:20	A New Sliding Window Based Algorithm for Frequent Closed Itemset Mining Over Data Streams FatemehNori, MahmoodDypir, MohamadHadiSadreddini, KoroshZiarati
14:40	Improving Bibliographic Search Through Dataset Enrichment Using Linked Data FattaneZarrinkalam, Mohsen Kahani, SamadPaydar
15:00	An Agents-Based Ontology Evolution on Personal Observations Ali Alifard, Bitashadgar, AlirezaOsareh
15:20	New Ensemble Methode for Classification of Data Streams Hamid Beigy, ParinazSobhani
TP1-4 Room4	Medical Image Processing <i>Session Chair : Dr. Rajaei</i>
14:00	Diabetic Retinopathy Dark Lesion Detection: Preprocessing Phase SaeedKhakmardan, HamidrezaPourreza, HaniehPoostchi
14:20	DE-Based Reversible Medical Image Authentication Using Hamming Code Mohammad SadeghHelfroush, Mohammad Reza Rahimi, Mohammad Arabzadeh, HabibollahDanyali
14:40	Vessel segmentation via Sobel operator based on fuzzy reasoning FarnooshGhadiri
15:00	Developing an automatic method for separation of arteries from veins in retinal images FariborzSobhanmanesh, HamidrezaPourreza, GhazalehMirsharif, FarshadTajeripour
15:20	Axial Resolution and Robustness Improvement in Coded Excitation Medical Ultrasound Images Using Fractional Fourier Transform SeyyedhadiHashemiBerenjabad, Amir Akhavan, Ali Mahloojifar

Thursday, October 13, 16:10 – 17:50	
TP2-1 Room1	Computer Networks <i>Session Chair : Dr. Abbasi</i>
16:10	Interference-aware Multicast Scheduling in WiMAX Mesh Networks MortazaMaleki, SalehYousefi
16:30	Probability of Multi-hop Message Dissemination in Sparse Linear Vehicular Ad Hoc Networks SepehrKeykhaie, Mehdi Dehghan, SalehYousefi
16:50	Two Tier Wireless Mesh Networks: Optimal Configuration Ali Mahani
17:10	Cooperative Spectrum Sensing Based on a Low-Complexity Cyclostationary Detection Method for Cognitive Radio Networks Hamid Arezumand, PaeizAzmi-HamedSadeghi
17:30	Spectrum Sharing by Sub-banding in Cognitive Radio Networks Samira Homayouni, Seyed Ali Ghorashi
17:50	The Relation Between Delay and Edge-Chromatic Number of the Network Graph in Wireless Ad Hoc Networks Ali Ghiasian, HosseinSaidi, SoodehAmiri
TP2-2 Room2	Intelligent Systems in Real Environment <i>Session Chair : Dr. Hosseini</i>
16:10	GMM-Guided Gradient Descent Learning of RBF Neural Network with Its Application on Robust GPS Satellites Selection M. Saraf-K. Mohammadi, M.R. mosavi
16:30	Solving heterogeneous coverage problem in Wireless Multimedia Sensor Networks in a dynamic environment using Evolutionary Strategies Ali Sabokro, Mohammad Sabokrou, HosseinFayyazi, MojtabaHosseini
16:50	A New Embedded E-Nose System in Smoke Detection SalahedinSadeghifard, Mehdi Anjomshoa, ElaheEsfandiari
17:10	Modeling the Perceived Voice Quality for VOIP System based on Neuro-Fuzzy (A Comparative Study) FarhadRahdari
17:30	Solving the Parameter Identification Problem using Shuffled Frog Leaping with Opposition-Based Initialization MortezaAliniaAhandani, NaserPourqorbanShrjoposht

TP2-3 Room3	Knowledge Engineering – Classification and Recommendation Systems <i>Session Chair : Dr. SabzehKar</i>
16:10	Improvement in automatic classification of Persian documents by means of naïve bayes and representation AshkanJafari, MihanHossennejad, Ali Amiri
16:30	Comparison of Group Recommendation Techniques in Social Networks Leila Esmaeili
16:50	Improving the Accuracy and Efficiency of Tag Recommendation System by Applying Hybrid Methods Ali Kohi, SeyedJavadEbrahimi, MehrdadJalali
17:10	Extending FUM-LD Framework by Including an Academic Data Model MahboubehDadkhah, Mohsen Kahani, SamadPaydar, BehshidBehkamal
TP2-4 Room4	Application of Machine Vision – Miscellaneous <i>Session Chair : Dr. Rajaei</i>
16:10	Automatic Marine Targets Recognition using Features based on Local Gabor Binary Pattern Histogram Sequence NasibeRahmani, AlirezaBehrad
16:30	CWSURF: a novel coloured local invariant descriptor based on SURF Ali Jalilvand, Hamid ShayeghBoroujeni, NasrollahMoghadamCharkari
16:50	Statistical Moeling in Wavelet domain for Bayesian Texture Classification and Retrieval AsadollahShahbahrani, Seyedeh Leila Nejadhashemi, BabakNaserSharif
17:10	Texture Classification Using Optimal Gabor Filters MarziehPakdel, FarshadTajeripour
17:30	Online Signature Verification based on Hidden Markov Model using Multi-Level Thresholding Seyed Reza Moasheri, ModjtabaRouhani

Friday, October 14, 10:30 – 12:10	
FA1-1 Room1	Computer Networks – Miscellaneous <i>Session Chair : Dr. Abbasi</i>
10:30	Compensation of the Clustering in Post-FFT OFDM Beamforming Using Pilot Relocation SadeghAkhzari, Saeid Reza Seydnejad
10:50	A Novel Replication Method in Data Grid Reza Sepahvand-Abbas Horri-GholamhoseinDastghaibyfar
11:10	Enhanced 3-Layer Hierarchical Replication Algorithm for Data Grid GholamhoseinDastghaibyfar, NajmeMansouri
11:30	A New Approach for Optimal Resource Utilization in Cloud Computing Environments SaeedSharifian, MasoudFarhadi, VahidKhoshdel, Seyed Ahmad Motamedi
11:50	A Blind Source Separation Technique for Spectrum Sensing in Cognitive Radio Networks Based on Kurtosis Metric SiavashSadeghilvrigh, Seyed Mohammad, SajadSadough, Seyed Ali Ghorashi
FA1-2 Room2	Robotics and Intelligent Control <i>Session Chair : Dr. Lotfi</i>
10:30	Multilevel Sensor Knowledge Discovery under Temporal Uncertainty Case Study: Spatiotemporal Reasoning to Do Activity Recognition in Smart Home FarzadAmirjavid
10:50	Dynamic Walking of Biped Robots with Obstacles Using Predictive Controller Mohammad Farrokhi-NasrinKalamian
11:10	Trajectory Tracking of 3-PRR Parallel Manipulator with PI Adaptive Fuzzy Terminal Sliding Mode Controller GelarehJavid
11:30	Optimization of Classical PID and Fuzzy PID Controllers of a Nonlinear Quarter Car Suspension System Using PSO Algorithm MokhtarShaSadeghi, SaeedVarzandian, AlirezaBarzegar
11:50	Eigenvector Selection in Spectral Clustering using Tabu Search SoheilaAshkezariToussi

FA1-3 Room3	Intelligent Signal Processing and Filtering <i>Session Chair : Dr. Hosseini</i>
10:30	Novel Design of FIR Digital Filters With Arbitrary Magnitude and Phase Specifications Based on Chaotic Imperialist Competitive Algorithm Ali Yousefi
10:50	The Effect of Sample Property on Optimum Search by Quantum Computing HamedEdalati
11:10	IIR Filter Design Using Time and Frequency Responses by Genetic Algorithm for System Identification JavadPoshtan, TayebehMostajabi
11:30	Genetic Regulatory Network Inference using Recurrent Neural Networks trained by a Multi Agent System Adel Ghazikhani, Mohammad Reza Akbarzadeh T, Reza Monsefi
11:50	Epileptic Seizure Detection Using GARCH Model on EEG Signals Sara Mihandoost, Mehdi ChehelAmirani
FA1-4 Room4	Industrial Applications of Intelligent Systems <i>Session Chair : Dr. Sabahi</i>
10:30	Wind Speed Short Term Forecast by Neuro Fuzzy Modeling with Aid of Mutual Information at Manjil Wind Amir Ghiasvand, OmidGhiasvand
10:50	Predicting the PVT Properties of Iran Crude Oil By Neural Network Amir Alimadadi
11:10	Improvement in the Intelligent Power Transformer Dissolved Gas Analysis Method SaeedQaedi
11:30	Modeling of Moisture Content in Tomato Drying Procces by ANN-GA Technique ShahinRafiee, Amin Taheri, AlirezaKeyhani, PayamJavadikia

Friday, October 14, 14:00 – 15:40	
FP1-1 Room1	Intelligent Scheduling <i>Session Chair : Dr. Tabatabaei</i>
14:00	Extrenal optimization for solving job-shop Scheduling Problem MasoudGharehjanloo
14:20	Modeling a Resource Management Method using Hierarchical Colored Petri Nets SaeidPashazadeh
14:40	Memetic Algorithms for Solving University Course Timetabling Problem MortezaAliniaAhandani
15:00	Examination Timetabling using a Hill Climbing with Combined Neighbourhood Structure Mohammad TaghiVakilBaghmisheh, MortezaAliniaAhandani
FP1-2 Room2	Intelligent Regression Tools and Applications <i>Session Chair : Dr. RowhaniManesh</i>
14:00	Modified particle swarm optimizer with semi-active congregation Mohammad KazemAkhlaghi, Mohammad Ali Khesali, AlirezaFathi, HamidrezaMohammadiDanyali
14:20	Support Vector Data Description by Using Hyper-ellipse Instead of Hyper-sphere Reza SigariTabrizi, YahyaForghani, HadiSadoghiYazdi, SohrabEffati
14:40	Support Vector Regression with Fuzzy Target Output YahyaForghani, HadiSadoghiYazdi, SohrabEffati
15:00	Fuzzy Support Vector Regression YahyaForghani, HadiSadoghiYazdi, Reza SigariTabrizi, Mohammad -R. Akbarzadeh-T
FP1-3 Room3	Fuzzy Systems and Clustering <i>Session Chair : Dr. Sabahi</i>
14:00	Data Classification Using Fuzzy-GSA HosseinAskari
14:20	A New Measure for Comparing Stopping Criteria of Fuzzy Decision Tree Mohsen Zeinalkhani, Mahdi Eftekhari
14:40	Feature Selection and Ensemble Hierarchical Cluster-based Under-sampling Approach for Extremely Imbalanced Datasets SimaSoltani, Javad Sadri, HasanAhmadiTorshizi