

CINTI 2014 program

updated on November 12

November 19, Wednesday

8:30 – 16:00	Registration	
9:00 – 9:15	Opening Ceremony	Room F09
9:15 – 10:15	Celebrating the 70th birthday of Prof. György Kovács	Room F09
	Chair: Imre J. Rudas	
9:15	János Nacsa:	
	György Kovács: A Life dedicated to Computer Integrated Manufacturing	
9:25	George L. Kovács:	
	Fifty Years USING Computers for AI in EGINEERING, Manufacturing, Robots – Nanorobots	
10:15 – 10:30	Coffee break	
10:30 – 12:00	Morning Session [W1a]	Room F09
	Session chair: Endre Pap	

51	Endre Pap , Djordje Obradovic and Zora Konjovic	Modeling by fuzzy approach uncertainties in image analysis
41	Christer Carlsson , Markku Heikkilä and Jozsef Mezei	Possibilistic Bayes Modelling for Predictive Analytics
47	Zsolt Csaba Johanyák and Piroska Gyöngyi Ailer	Particle Swarm Optimization based Tuning for Fuzzy Cruise Control
53	Balázs Villányi, Péter Martinek and Andor Szamos	Voting based fuzzy linguistic matching

49	Gergely Bencsik and Laszlo Bacsardi	New methodology to analyze the random impact level of mathematically proved results
24	Michal Rojcek	SYSTEM FOR FUZZY DOCUMENT CLUSTERING AND FAST FUZZY CLASSIFICATION

10:30 – 12:00 **Morning Session [W1b]** Room F08

Session chair: Zoltán Mann

15	David Bartok and Zoltan Mann	Accelerating SAT solving with best-first-search
3	Madalin Neagu and Gheorghe Sebestyen	Increasing Memory Security through Data Scrambling and Information Entropy Models
64	Jonathon Toman and Joanna Olszewska	Algorithm for Graph Building Based on Google Maps and Google Earth
108	Gábor Gosztolya	Is AdaBoost Competitive for Phoneme Classification?
13	Nemanja Kovačev and Imre Lendák	Algorithm for distribution substation area visualization
68	Gabriella Divéki and Csanad Imreh	Grid based online algorithms for clustering problems

10:30 – 12:00 **Morning Session [W1c]** Room F07

Session chair: Ján Zelenka

5	Jan Zelenka and Tomas Kasanicky	Insect Pheromone Strategy For The Robots Coordination – Reaction on Loss Communication
31	Peter Sarcevic, Zoltán Kincses and Szilveszter Pletl	Wireless sensor network based movement classification using wrist-mounted 9DOF sensor boards
82	Akin Ilker Savran, Erhan Musaoglu , Mehmet Fatih Yuce and Engin Yesil	RouteArt: A New Framework for Vehicle Routing Problem with Pickup and Delivery using Heuristic Bubble Algorithm
94	Andras Mihaly and Peter Gaspar	Reconfigurable Control of an In-Wheel Electric Vehicle based on LPV methods
95	Balázs Németh and Péter Gáspár	Model-Based Sensitivity Analysis of the Look-ahead Cruise Control
22	Darius Malysiak and Uwe Handmann	An Algorithmic Skeleton for Massively Parallelized Mean Shift Computation with Applications to GPU Architectures

10:30 – 12:00 **Morning Poster Session**

10	Jozsef Katona	Examination and comparison of the EEG based Attention Test with CPT and T.O.V.A.
11	Jozsef Katona , Peter Dukan , Tibor Ujbanyi and Attila Kovari	Control of incoming calls by a Windows Phone based Brain Computer Interface
52	Peter Dukan , Attila Kovari and Jozsef Katona	Low consumption and high performance Intel, AMD and ARM based Mini PCs
55	Tibor Ujbanyi, Jozsef Katona and Attila Kóvári	IT security investigation based on vulnerable levels
2	Sebastian Hommel , Darius Malysiak and Uwe Handmann	Efficient People Re-Identification based on Models of Human Clothes

12:00 – 13:30 **Lunch**

13:30 – 15:00 **Afternoon Session [W2a]** Room F09

Session chair: Simon Fong

89	Valentina E. Balas and Soumya Banerjee	Seeded Text Auto-Summarization: An Experience with Simplified Statistical and Fuzzy Ranking Algorithm
92	Simon Fong and Justin Liang	Improving Classification Accuracy Using Fuzzy Clustering Coefficients of Variations (FCCV) Feature Selection Algorithm
33	Marius-Alexandru Velciu and Victor-Valeriu Patriciu	Methods of reducing bio-cryptographic algorithms computational complexity
48	Rahma Ferjani, Imen Boukhris and Zied Elouedi	Belief Influence Diagrams
91	Iztok Jr. Fister, Iztok Fister, Xin-She Yang and Simon Fong	Bat algorithm: Recent advances
23	Darius Malysiak and Uwe Handmann	An efficientFramework for distributed Computing in heterogeneous Beowulf Clusters and Cluster-Management

13:30 – 15:00 **Afternoon Session [W2b]** Room F08

Session chair: Izumi Suzuki

8	Izumi Suzuki	Measuring visual vocabulary appropriateness by dispersion index and its improvement by globalizing SIFT descriptors
38	Vytautas Štukaiys, Kristina Bepalova and Renata Burbaitė	Feature Transformation-Based Computational Model and Tools for Heterogeneous Meta-Program Design
45	Mohamed Ben Mzoughia and Mohamed Limam	A Multicriterion Segmentation Approach Based on CLV Components

4	Zeeshan Shareef, Zubair Usman and Muhammad Asif Rana	Optimization of Static and Dynamic Anti-Windup Compensator using New Improved Particle Swarm Optimization Algorithm
21	Viktor Kovács and Gábor Tevesz	Edge Detection in Discretized Range Images
50	Vladimir Sobeslav , Jakub Pavlik and Ales Komarek	Security information and event management in the cloud computing infrastructure

13:30 – 15:00 **Afternoon Session [W2c]** Room F07

Session chair: László Horváth

99	Eszter Kail, Anna Bánáti, Péter Kacsuk and Miklós Kozlovsky	Provenance based adaptive and dynamic workflows
102	Viktor Zoltán Jónás, Miklós Kozlovsky and Béla Molnár	Detecting Low Intensity Nuclei on Propidium Iodide Stained Digital Slides
103	Gergely Windisch and Miklós Kozlovsky	Evaluating Sharpness Metrics for HE Stained Blood Cell Images
106	Gergely Windisch, Martin Mihályi and Zoltán Vamossy	Book Catalog using Image Processing

13:30 – 15:00 **Poster Session**

17	Filip Holik , Josef Horalek, Ondrej Marik, Sona Neradova and Stanislav Zitta	Effective penetration testing with Metasploit framework and methodologies
30	Thomas Kopinski, Darius Malysiak, Alexander Gepperth and Uwe Handmann	Time-of-Flight based multi-sensor fusion strategies for hand gesture recognition
35	Xiao Yang, Wanlong Chen and Frank Wang	Memristor-based Associative Learning Network with Retention Loss
36	Jiri Krenek , Kamil Kuca , Ondrej Krejcar , Petra Maresova , Vladimir Sobeslav and Pavel Blazek	Artificial Neural Network Tools for Computerised Data Modeling and Processing
40	Pavel Blazek, Jiri Krenek, Kamil Kuca, Daniel Jun and Ondrej Krejcar	The system of instant access to the life biomedical data

15:00 – 15:15 **Coffee Break**

15:15 – 16:45 **Afternoon Session [W3a]** Room F09

Session chair: Ruki Harwahyu

39	Ruki Harwahyu , Lukman Rosyidi and Riri Fitri Sari	Low-rate Ring Backbone with Dual-hop Coverage ZigBee Network
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60	Buket Kaya and Mustafa Poyraz	Link Prediction in Weighted Symptom Networks
19	Filip Holik, Josef Horalek, Ondrej Marik, Sona Neradova and Stanislav Zitta	The methodology of measuring throughput of a wireless network
27	Oumaima Boussarsar, Imen Boukhris and Zied Elouedi	Inference in hybrid causal belief networks
58	Gunjae Yoon, Wonjoon Lee, Jungdo Park and Hoon Choi	A full-duplex listening structure for network and application monitoring systems
69	Vladimir Sobeslav, Jakub Pavlik, Ales Komarek and Josef Horalek	Gateway redundancy protocols

15:15 – 16:30 **Afternoon Session [W3b]** Room F08

Session chair: Lajos Martinovic

12	Saša Arsovski, Branko Markoski, Predrag Pecev, Ladislav Ratgeber and Nikola Petrov	An ontology driven credit risk scoring model
44	Renata-Graziela Boar, Alexandru Iovanovici and Horia Ciocarlie	Analyzing the structure of world financial markets through complex network analysis
77	Radu Ioan Mogos	An E-Commerce model based on a Multi-Agent Technology
34	Mihai-Gabriel Ionita and Victor-Valeriu Patriciu	Achieving DDoS Resiliency in a Software Defined Network by Intelligent Risk Assessment Based on Neural Networks and Danger Theory
88	Lajos Martinovic and Darko Capko	Estimation methods of calculations complexity in distribution management systems

15:15 – 16:45 **Poster Session**

46	Sanja Maravic Cisar, Robert Pinter and Petar Cisar	Code Hunt – "Hunting" to Learn Programming
56	Wanlong Chen, Xiao Yang and Frank Wang	A New Memristor Model for Content Addressable Memory
57	Zilong Hu and Jinshan Tang	GPU Accelerated 3D Cluster-driven Anisotropic Diffusion for Speckle Reduction in Ultrasound Images
85	Nuri Özalp and Yasin Tekin	Content-Based Routing For Wireless Sensor Network Using Intelligent Agents

17:00 **MFT közgyűlés** Room F07

18:00 **Banquet**

November 20, Thursday

8:30 – 11:00 **Registration**

9:00 – 9:45 **Plenary Session** Room F09

Chair: Imre J. Rudas

107 Nicola P. Belfiore and Imre J. Rudas Applications of Computational Intelligence to Mechanical Engineering

9:45 – 10:00 **Coffee break**

10:00 – 11:30 **Morning Session [T1a]** Room F09

Session chair: Okan Can

101	Endre Pap and Anikó Szakál	Binary Copulas as Aggregation Functions
90	Xueyuan Gong, Yain-Whar Si , Simon Fong and Sabah Mohammed	NSPRING: Normalization-supported SPRING for Subsequence Matching on Time Series Streams
83	Okan Can and Ozgur Koray Sahingoz	Solving Container Loading Problem With Simulated Annealing Algorithm
84	Cansin Turguner and Ozgur Koray Sahingoz	Solving Job Shop Scheduling Problem with Ant Colony Optimization
86	Huseyin A. Erdem	Solving Container Loading Problem with Genetic Algorithm
87	Aydin Ozmen and Ozgur Koray Sahingoz	Solving Hub Location Problem With Genetic Algorithm

10:00 – 11:30 **Morning Session [T1b]** Room F08

Session chair: György Max

93 Enikő Szőke, Csaba Szabo, **Maria Imecs** and Ioan Iov Incze Double Field Oriented Sensorless Control of Cage Induction Motor

7	Kiyoharu Tagawa, Akihiro Imamura and Shoichi Harada	Multi-Hard-objective Optimum Design of Surface Acoustic Wave Duplexers Using Adaptive Differential Evolution
32	Mircea Ruba and Lorand Szabo	Study of Light Electric Vehicles Propulsion Solutions by Means of Finite Element Method Based Co-Simulations
42	György Max and Béla Lantos	Nonlinear Moving Horizon Predictive Control of Ground Vehicles
79	Vinicius A. Battagello and Carlos H. C. Ribeiro	Analysis of the Effects of Failure and Noise in the Distributed Connectivity Maintenance of a Multi-robot System
97	Dusan Krokavec, Anna Filasova and Vratislav Hladky	Static output control design for nonlinear systems in the Takagi-Sugeno form

10:00 – 11:30 **Morning Session [T1c]** Room F07

Session chair: Jan Matyska

98	Miklos Kozlovsky and Daniela Zavec Pavlinić	Environment and situation monitoring for Firefighter teams
105	Johanna Sápi , Dániel András Drexler, Zoltan Sapi and Levente Kovacs	Identification of C38 colon adenocarcinoma growth under bevacizumab therapy and without therapy
14	Jiri Kysela	Comparison of Web Applications Geolocation Services
20	Vitalijs Komasilovs, Aleksejs Zacepins and Valerijs Bezrukovs	Web application for processing and analysis of the raw wind measurement data
76	Imen Boukhris and Raouia Ayachi	A novel personalized academic venue hybrid recommender
71	Vladimir Sobeslav , Josef Horalek and Jan Matyska	Comparative analysis of software routers on Linux

10:00 – 11:30 **Poster Session**

54	Štefan Korečko , Branislav Sobota and Pavol Čurilla	Emotional Agents as Non-playable Characters in Games: Experience with Jadex and JBdiEmo
59	Michal Puheim, Ján Vaščák and Ladislav Madarász	Three-Term Relation Neuro-Fuzzy Cognitive Maps
96	Tomáš Vaispacher, Róbert Bréda and Rudolf Andoga	Integration architecture design for implementation of a vector magnetometer on board of unmanned vehicle
100	Ján Hrabovský, Rudolf Andoga and Ladislav Főző	Designing a digitally controlled fuel system for an experimental small turbojet engine
104	Ladislav Nyulászi and Ladislav Madarász	Experimental Identification of the Small Turbojet Engine MPM-20

11:30 – 13:00 **Lunch and Farewell**