SSCI 2016 Program Overview

Time	Room 1A	Room 1B	Room 2A	Room 2B	Room 3A	Room 3B	Room 4A	Room 4B	Ballroom
				Tuesd	ay, Dece	mber 6			
10:00 - 10:30)			Coffee bre	ak				
10:30 - 12:00)	PhD V	Vorkshop R	oom 1A		Tutorial 1	Room 1B		
12:00 - 14:00)			Lunch brea	ak				
14:00 - 15:30)	PhD V	Vorkshop R	oom 1A		Tutorial 2	Room 1B		
15:30 - 16:00)			Coffee bre	ak				
16:00 - 17:30)	PhD V	Vorkshop R						
19:00 - 20:30)		We	lcome Rec	eption				
				Wednes	day, Dec	ember 7	7		
8:30 - 8:45					pening Sess				
8:45 - 9:45					ary 1: Prof (
9:45: - 10:00)				Coffee brea				
10:00 - 12:00	CIASG1	SIS1	CiFER1	MCDM1	FASLIP1	CIES1	CIHLI1	CIVTS1	ADPRL1
12:00 - 13:00				'	Lunch breal	k			
13:00 - 14:00			F	Plenary 2: F	Prof Bernha	ırd Sendho	ff		
14:00 - 16:00	CIASG2	SIS2	CiFER2	DL	FASLIP2	IA	ICES1	CIDM1	CICS1
16:00 - 16:15					Coffee brea	k			
16:15 - 18:15		CIR2AT	CIEL	CICARE1		FOCI1	CICA1	CIDM2	CIES2
18:15 - 19:00					oster Sessio				
19:30 - 21:00)	Red	eption for V	Vomen, Stu	udents and \	Young Profe	essionals in	CIS	
				Thursd	lay, Dece	ember 8			
8:30 - 9:30			F		Prof Marios		u		
9:30 - 10:00				-	Coffee Brea				
10:00 - 12:00	CISDA1	ADPRL2	CIHLI2	MCDM2	RiiSS1	FOCI2	ICES2	CIDM3	SDE1
12:00 - 13:00)				Lunch breal	k			
13:00 - 14:00)			Plena	ry 4: Prof K	C Tan			
14:00 - 16:00	ISIC	SIS3	CiFER3	CIVTS2	MBEA2	CIPLS	CICA2	CIDM4	CICS2
16:00 - 16:15					Coffee Brea				
16:15 - 18:15		ADPRL3	CiFER4	l	FASLIP3	CIES3	CIBD	CIDM5	CIASG3
20:30 - 23:00)			Con	ference Bar	nquet			
				Frida	y, Decen	nber 9			
8:30 - 9:30				Р	lenary 5: TE	3D			
9:30 - 10:00					Coffee brea	k			
10:00 - 12:00	FOCI3	SIS4	CIHLI3	MCDM3	MBEA3	CIES4	ICES3	CIDM6	CIMSIVP
12:00 - 13:00				1	Lunch breal				
13:00 - 15:00		FASLIP4	CIHLI4	CIVTS3	MCDM4	RiiSS2	ICES4	CIDM7	CICS3
15:00 - 15:15					Coffee brea				
15:15 - 16:00		1			ster Sessio			1	
16:00 - 18:00		Hybrid 1	CIVTS4	CICARE3		Hybrid 2	CISND	Hybrid 3	Hybrid 4
18:00 - 18:15	ō			С	losing sessi	on			

2016 IEEE Symposium Series on Computational Intelligence (SSCI 2016)

December 6-9, 2016, Athens, Greece

Program

Registration Open: Tuesday 10:00 - 18:00; Wednesday 8:00 - 19:00, Thursday 8:00 - 18:00 and Friday 8:00 - 12:00

Tuesday, December 6, 2016

10:00 – 10:30 10:30 - 12:00:	Coffee PhD Workshop, Room 1A, <i>Chair: Stefanos Kollias</i>
	Tutorial 1 , Room 1B Astronomy Data Analysis using Deep Learning and Information Theoretical Learning, Pablo A. Estevez
12:00 – 14:00	Lunch break
14:00 – 15:30	PhD Workshop, Room 1A, Chair: Andreas Stafylopatis
	Tutorial 2 , Room 1B Medical Applications of Evolutionary Computation, Stephen L. Smith
15:30 – 16:00	Coffee break
16:00 – 17:30	PhD Workshop, Room 1A, Chair: Yaochu Jin
19:00 – 20:30	Welcome reception, Room Olympia Foyer
	Wednesday, December 7, 2016
8:30 -8:45	Opening Session, Room Olympia Chair: Stefanos Kollias, Yaochu Jin
8:45 – 9:45	Plenary 1, Room Olympia Computational Intelligence for Brain Computer Interface, CT Lin, Uni. of Tech. Sydney Chair: Stefanos Kollias
9:45 – 10:00	Coffee break

10:00 – 12:00	CIASG Session 1, Room 1A Chairs: Kumar Venayagamoorthy, Stefano Squartini
10:00 – 10:20	Andreia Carreiro, Carlos Henggeler Antunes and Humberto Jorge, Assessing the robustness of solutions to a multi- objective model of an energy management system aggregator
10:20 – 10:40	Roberto Bonfigli, Emanuele Principi, Stefano Squartini, Marco Fagiani, Marco Severini and Francesco Piazza, User-aided Footprint Extraction for Appliance Modelling in Non-Intrusive Load Monitoring
10:40 – 11:00	Lekhnath Kafle and Zhen Ni, Fuzzy Logic Adjustment for Power Sharing in Wind and PV-based Isolated Microgrid
11:00 – 11:20	Jörg Bremer and Sebastian Lehnhoff, A Hybrid CMA-ES Approach for Distributed Grid Compliant Energy Scheduling
11:20 – 11:40	Pramod Herath and G Kumar Venayagamoorthy, A Service Provider Model for Demand Response Management
11:40 – 12:00	Md Rahman and Ganesh Venayagamoorthy, Power System Distributed Dynamic State Prediction
10:00 – 12: 00	SIS Session 1, Room 1B
	Chairs: Sanaz Mostaghim, Christopher Cleghorn
10:00 – 10:20	Kostas Hatalis, Basel Alnajjab, Shalinee Kishore, Rick Blum and Alberto Lamadrid, Particle Swarm Based Model Exploitation for Parameter Estimation of Wave Realizations
10:20 – 10:40	Leonardo Rundo, Andrea Tangherloni, Carmelo Militello, Maria Carla Gilardi and Giancarlo Mauri, Multimodal Medical Image Registration Using Particle Swarm Optimization: A Review
10:40 – 11:00	Rollie Goodman, Monica Thornton, Shane Strasser and John Sheppard, MICPSO: A Method for Incorporating Dependencies into Discrete Particle Swarm Optimization
11:00 – 11:20	Sanaz Mostaghim, Christoph Steup and Fabian Witt, Energy Aware Particle Swarm Optimization as Search mechanism for Aerial Micro-robots
11:20 – 11:40	Christiaan Scheepers and Andries Engelbrecht, Vector Evaluated Particle Swarm Optimization Archive Management: Pareto Optimal Front Diversity Sensitivity Analysis
11:40 – 12:00	Christopher Cleghorn and Andries Engelbrecht, Particle Swarm Optimizer: The Impact of Unstable Particles on Performance
10:00 – 12: 00	CiFER Session 1, Room 2A Chairs: Robert Golan, Nikos Loukeris
10:00 – 10:20	Takanobu Mizuta, Yoshito Noritake, Satoshi Hayakawa and Kiyoshi Izum, Affecting Market Efficiency by Increasing Speed of Order Matching Systems on Financial Exchanges – Investigation using Agent Based Model
10:20 – 10:40	Radu Pruna, Maria Polukarov and Nicholas Jennings, An Asset Pricing Model with Loss Aversion and its Stylized Facts
10:40 – 11:00	Amer Bakhach, Edward P K Tsang, Wing Lon Ng and V L Raju Chinthalapati, Backlash Agent: A Trading Strategy Based On Directional Change

11:00 – 11:20	Xiaodi Zhu, Steve Y. Yang and Somayeh Moazeni, Firm Risk Identification Through Topic Analysis of Textual Financial Disclosures
11:20 – 11:40	Aparna Gupta, Majeed Simaan and Mohammed Zaki, Investigating Bank Failures Using Text Mining
11:40 – 12:00	Quetzali Madera, Oscar Castillo, Mario Garcia Valdez and Alejandra Mancilla, Interactive Evolutionary Computation with Adaptive Mutation for Increasing the Effectiveness of Advertisement Texts
10:00 – 12: 00	MCDM Session 1, Room 2B
	Chairs: Kaisa Miettinen and Sanaz Mostaghim
10:00 – 10:20	Heiner Zille, Hisao Ishibuchi, Sanaz Mostaghim and Yusuke Nojima, Mutation Operators based on Variable Grouping for Multi-objective Large-scale Optimization
10:20 – 10:40	Junko Hutahaean, Vasily Demyanov and Mike Christie, Many-Objective Optimization Algorithm Applied to History Matching
10:40 - 11:00	Sami Kaddani, Satya Tamby, Daniel Vanderpooten and Jean-Michel Vanpeperstraete, Partial Preference Models Using Translated Cones in Multi-Objective Optimization
11:00 – 11:20	Maroi Agrebi, Mourad Abed and Mohamed Nazih Omri, A new multi-actor multi-attribute decision-making method to select the distribution centers' location
11:20 – 11:40	Jussi Hakanen, Tinkle Chugh, Karthik Sindhya, Yaochu Jin and Kaisa Miettinen, Connections of Reference Vectors and Different Types of Preference Information in Interactive Multiobjective Evolutionary Algorithms
11:40 – 12:00	Maria João Alves and Carlos Henggeler Antunes, An illustration of different concepts of solutions in semivectorial bilevel programming
10:00 – 12: 00	FASLIP Session 1, Room 3A
	Chairs: Tomoyuki Hiroyasu, Supratik Mukhopadhyay
10:00 – 10:20	Manohar Karki, Saikat Basu, Robert Dibiano, Supratik Mukhopadhyay, Jerry Weltman and Malcolm Stagg. A Symbolic Framework for Recognizing Activities in Full Motion Surveillance Videos
10:20 – 10:40	Yuta Ichikawa, Shuji Tashiro, Hidetaka Ito and Hiroomi Hikawa, Real Time Gesture Recognition System with Gesture Spotting Function
10:40 – 11:00	Michał Dolecki, Paweł Karczmarek, Adam Kiersztyn and Witold Pedrycz, Utility Functions as Aggregation Functions in Face Recognition
11:00 – 11:20	Arjun Yogeswaran and Pierre Payeur, Biasing Restricted Boltzmann Machines using Gaussian Filters to Learn Invariant Visual Features
11:20 – 11:40	Rihab Ben Ameur, Lionel Valet and Didier Coquin, A Fusion System for Tree Species Recognition Through Leaves and Barks
11:40 – 12:00	Satoru Hiwa, Yuuki Kohri, Keisuke Hachisuka and Tomoyuki Hiroyasu, Region-of-Interest Extraction of fMRI data using Genetic Algorithms

10:00 – 12: 00	CIES Session 1, Room 3B
	Chairs: Catherine Huang and Vladik Kreinovich
10:00 – 10:20	Ingrid Kovacs, Alexandra Iosub, Marina Topa, Andi Buzo and Georg Pelz, A Novel Entropy- Based Sensitivity Analysis Approach for Complex Systems
10:20 - 10:40	Christian Braune and Rudolf Kruse, Fuzzy Density Based Clustering with Generalized
10.20 – 10.40	Centroids
10:40 - 11:00	Hannes Klee, Michael Buchholz, Torben Materna and Klaus Dietmayer, Towards Generic
	Communication Interfaces of Existing Applications
11:00 - 11:20	Christos Varytimidis, Georgios Tsatiris, Konstantinos Rapantzikos and Stefanos Kollias. A
	systemic approach to automatic metadata extraction from multimedia content
11:20 - 11:40	Matthias Gringard and Andreas Kroll, On the parametrization of APRBS and multisine test
	signals for the identification of nonlinear dynamic TS-models
11:40 – 12:00	Anthony Welte, Luc Jaulin, Martine Ceberio and Vladik Kreinovich, Robust Data Processing
	in the Presence of Uncertainty and Outliers: Case of Localization Problems
10:00 – 12: 00	CIHLI Session 1, Special Session on "Multitasking and Knowledge Transfer in Evolutionary
10.00 12.00	Computation"
	Room 4A
	Chairs: Ramon Sagarna, Yew-Soon Ong
10:00 – 10:20	Abhishek Gupta and Yew-Soon Ong, Genetic Transfer or Population Diversification?
	Deciphering the Secret Ingredients of Evolutionary Multitask Optimization
10:20 – 10:40	Lei Zhou, Liang Feng, Jinghui Zhong, Siwei Jiang, Yew-Soon Ong, Zexuan Zhu and Edwin
	Sha, Evolutionary Multitasking in Combinatorial Search Spaces: A Case Study in
10:40 - 11:00	Capacitated Vehicle Routing Problem Ramon Sagarna and Yew Soon Ong, Concurrently Searching Branches in Software Tests
10.40 – 11.00	Generation through Multitask Evolution
11:00 – 11:20	Xiying Du, Mengchen Ji, Zhengyang Li and Bo Liu, Scheduling of Stochastic Distributed
	Assembly Flowshop under Complex Constraints
11:20 - 11:40	Dawid Połap and Marcin Woźniak, On manipulation of initial population search space in
	heuristic algorithm through the use of parallel processing approach
11:40 - 12:00	Joe Allen and Ron Sun, Emotion Contagion in a Cognitive Architecture
10:00 – 12: 00	CIVTS Session 1, Room 4B
10.00 – 12.00	Chairs: Tobias Rodemann, Rémi Delassus
	chans. Toblas Nodelhalli, Nellii Belassas
10:00 - 10:20	Tobias Rodemann, Lars Graening and Ken Nishikawa, Automatic Energy Management
	Controller Design for Hybrid Electric Vehicles
10:20 - 10:40	Touihri Alaa, Dridi Olfa and Krichen Saoussen, A multi Operator Genetic Algorithm For
	Solving The Capacitated Vehicle Routing Problem with Cross-Docking Problem
10:40 - 11:00	Rémi Delassus, Romain Giot, Raphaël Cherrier, Gabriele Barbieri and Guy Melançon,
	Broken Bikes Detection Using CitiBike Bikeshare System Open Data
11:00 – 11:20	Bernhard Schlegel and Bernhard Sick, Design and optimization of an autonomous feature

11:20 – 11:40 11:40 – 12:00	selection pipeline for high dimensional, heterogeneous feature spaces Yifu Liu, Paul Watta, Bochen Jia and Yi, Murphey, Contextual Vehicle Position Detection using V2V Communication with Application to Pre-crash Detection and Warning Hamzah Al Najada and Imad Mahgoub, Anticipation and Alert System of Congestions and Accidents in VANET Using Big Data Analysis for Intelligent Transportation Systems
10:00 – 12: 00	ADPRL Session 1, Special Session on "New daptive dynamic programming and reinforcement learning approaches for smart and complex cyber-physical systems", Room Olympia Chairs: Zhen Ni, Hao Xu
10:00 – 10:20	Hao Xu, Finite Horizon Optimal Control and Communication Co-design for Uncertain Networked Control System with Transmit Power Constraint
10:20 – 10:40	Avijit Das, Zhen Ni and Xiangnan Zhong, Near Optimal Control for Microgrid Energy Systems Considering Battery Lifetime Characteristics
10:40 – 11:00	Gokhan Cetin, M.Sami Fadali and Hao Xu, Model-free Q-learning Optimal Resource Allocation in Uncertain Communication Networks
11:00 – 11:20	Dongbin Zhao, Haitao Wang, Kun Shao and Yuanheng Zhu, Deep Reinforcement Learning with Experience Replay Based on SARSA
11:20 – 11:40	Tommaso Mannucci and Erik-Jan van Kampen, A Hierarchical Maze Navigation Algorithm with Reinforcement Learning and Mapping
11:40 – 12:00	Arryon Tijsma, Madalina Drugan and Marco Wiering, Comparing Exploration Strategies for Q-learning in Random Stochastic Mazes
12:00 – 13:00	Lunch break
13:00 – 14:00	Plenary 2, Room Olympia Smart Buildings: a Platform for Computational Intelligence, Marios Polycarpou, Univ. of Cyprus Chair: Andreas Stafylopatis
14:00 – 16:00	CIASG Session 2, Special Session on "Intelligent management of micro grids and buildings" Room 1A
	Chairs: Zita Vale and Oscar Garcia
14:00 – 14:20	Quoc-Tuan Tran, Ngoc-An Luu and Tung Lam Nguyen, Optimal Energy Management Strategies of Microgrids
14:20 – 14:40	Filipe Fernandes, Douglas Alves, Tiago Pinto, Fabricio Takigawa, Rubipiara Fernandes, Hugo Morais, Zita Vale and Nelson Kagan, Intelligent Energy Management using CBR: Brazilian Residential Consumption Scenario
14:40 – 15:00	Eugenia Vinagre, Juan Francisco De Paz Santana, Tiago Pinto, Zita Vale, Juan M. Corchado and Oscar Garcia, Intelligent Energy Forecasting based on the Correlation between Solar Radiation and Consumption patterns

15:00 - 15:20 15:20 - 15:40 15:40 - 16:00	Dyego de Campos, Edison A. C. Aranha Neto, Rubipiara C. Fernandes, Ines Hauer and André Richter, Optimal tariff system for integration of distributed resources based on a comparison of Brazil's and Germany's system Isabel Praça, Joao Soares, Luis Gomes, Eugenia Vinagre, Zita Vale and Lamya Abdeljalil Belhaj, Shared Intelligence for smart grids management - An EVeSSi scenario for the Profitability of EV Frequency regulation in France João Spinola, Pedro Faria and Zita Vale, Energy Resource Aggregator Managing Active Consumer Demand Programs
14:00 - 16:00	SIS Session 2, Room 1B Chairs: Jun Zhang, Antonino Di Stefano
14:00 – 14:20	Emer Bernal, Oscar Castillo and Jose Soria, A fuzzy logic approach for dynamic adaptation of parameters in galactic swarm optimization
14:20 – 14:40	Mohammed El-Abd, Cooperative Coevolution using The Brain Storm Optimization Algorithm
14:40 – 15:00	Frank Vanhoenshoven, Gonzalo Nápoles, Mathijs Creemers, Maikel Leon Espinosa and Koen Vanhoof, Analyzing the Impact of the Adaptive Clearing Mechanism on Algorithm Accuracy
15:00 – 15:20	Wen Shi, Wei-Neng Chen, Qiang Yang and Jun Zhang, A Multi-optimizer Cooperative Coevolution Method for Large Scale Optimization
15:20 – 15:40	Antonino Di Stefano, Alessandro Vitale, Vincenzo Cutello and Mario F. Pavone, How long should Offspring Lifespan be in order to obtain a proper exploration?
15:40 – 16:00	Mehmet D. Erbas, On the Mechanisms of Imitation in Multi-Agent Systems
14:00 – 16:00	CiFER Session 2, Room 2A Chairs: Robert Golan, Nikos Loukeris
14:00 – 14:20	Vasilios Tsalavoutis, Constantinos Vrionis and Athanasios Tolis, An Enhanced Real Coded Approach for the Optimization of the Unit Commitment Problem
14:20 – 14:40	José M. Merigó, Fabio Blanco, Anna Maria Gil Lafuente and Ronald Yager, A Bibliometric Analysis of the First Thirty Years of the International Journal of Intelligent Systems
14:40 – 15:00	Petrônio Silva, Frederico Guimarães and Hossein Sadaei, Interval Forecasting with Fuzzy Time Series
15:00 – 15:20	Nalan Basturk, Rui Jorge Almeida, Robert Golan and Uzay Kaymak, Multivariate Time- Varying Volatility Modeling using Probabilistic Fuzzy Systems
15:20 – 15:40	Víctor Gerardo Alfaro-García, José María Merigó Lindahl and Anna Maria Gil-Lafuente, Induced Generalized Ordered Weighted Logarithmic Aggregation Operators
15:40 – 16:00	Hsin-Tsung Peng, William Hsu, Jan-Ming Ho and Min-Ruey Yu, Homomorphic Encryption Application on FinancialCloud FrameworK

14:00 – 16:00	DL, Room 2B
	Chairs: Dongbin Zhao, Milos Manic
14:00 – 14:20	Le Lv, Dongbin Zhao and Qingqiong Deng, Image Clustering Based on the Deep Sparse Representations
14:20 – 14:40	Emmanuel Okafor, Pornntiwa Pawara, Faik Karaaba, Olarik Surinta, Valeriu Codreanu, Lambert Schomaker and Marco Wiering, Comparative Study Between Deep Learning and Bag of Visual Words for Wild-Animal Recognition
14:40 – 15:00	Zongqing Lu, Wenjian Zhang and Qingmin Liao, Pedestrian Detection Aided by Scale- Discriminative Network
15:00 – 15:20	Stanislau Semeniuta and Erhardt Barth, Image Classification with Recurrent Attention Models
15:20 – 15:40	Savitha Ramasamy, Kit Yan Chuan, Phyo Phyo San, Sai Ho Ling and Suresh Sundaram, A Hybrid Deep Boltzmann Functional Link Network for Classification Problems
14:00 – 16:00	FASLIP Session 2, Room 3A Chairs: Bing Xue, Angelo Menezes
14:00 – 15:00	Keynote Speech Feature Grouping in Big Dimensionality, Yew Soon Ong
15:00 – 15:20	Andrew Lensen, Bing Xue and Mengjie Zhang, Particle Swarm Optimisation Representations for Simultaneous Clustering and Feature Selection
15:20 – 15:40	Gracieth Batista, Washington Silva and Angelo Menezes, Automatic Speech Recognition Using Support Vector Machine and Particle Swarm Optimization
15:40 – 16:00	Bing Xue, Mitchell Lane, Ivy Liu and Mengjie Zhang, Dimension Reduction in Classification using Particle Swarm Optimisation and Statistical Variable Grouping Information
14:00 – 16:00	IA, Room 3B Chairs: Diego de Siqueira Braga, Alain-Jérôme Fougeres
14:00 – 14:20	Franz Pieper and Sanaz Mostaghim, Influence of Dynamic Environments on Agent Strategies
14:20 – 14:40	Johannes Ponge, Diego de Siqueira Braga, Dennis Horstkemper, Bernd Hellingrath, Stephan Ludwig and Fernando Buarque de Lima Neto, Automated Scalable Modeling for Population Microsimulations
14:40 – 15:00	Alain-Jérôme Fougeres, From quantum cognition to quantum agents: illustration of the superposition state property
15:00 – 15:20	Carlos Alberto Severiano Junior, Frederico Gadelha Guimarães and Miri Weiss Cohen, Very short-term solar forecasting using multi-agent system based on extreme learning machines and data clustering
15:20 – 15:40	Branko Miloradovic, Baran Çürüklü and Mikael Ekström, A genetic planner for mission planning of cooperative agents in an underwater environment

15:40 – 16:00	Mahdi Moeini, Daniel Schermer and Oliver Wendt, Swarm of Agents for Guarding an Art Gallery: A Computational Study
14:00 - 16:00	ICES Session 1, Room 4A Chairs: Gianluca Tempesti, Jim Harkin
14:00 – 14:20	Matthew Rowlings, Andy Tyrrell and Martin Trefzer, Hardware Implementation of Social-Insect-Inspired Adaptive Many-Core Task Allocation
14:20 – 14:40	Žiga Rojec, Árpád Bűrmen and Iztok Fajfar, An Evolution-Driven Analog Circuit Topology Synthesis
14:40 – 15:00	Jan Nevoral, Richard Ruzicka and Vojtech Mrazek, Evolutionary Design of Polymorphic Gates Using Ambipolar Transistors
15:00 – 15:20	Lukas Sekanina, Filip Vaverka and Radek Hrbacek, Evolving Component Library for Approximate High Level Synthesis
15:20 – 15:40	Zdenek Vasicek, Vojtech Mrazek and Lukas Sekanina, Evolutionary Functional Approximation of Circuits Implemented into FPGAs
15:40 – 16:00	Colin Bonney, Pedro Campos, Nizar Dahir and Gianluca Tempesti, Fault Tolerant Task Mapping on Many-Core Arrays
14:00 – 16:00	CIDM Session 1, Room 4B Chairs: Marcin Woźniak, Dionisis Margaris
14:00 – 14:20	Robertas Damasevicius, Remigijus Valys and Marcin Woźniak, Intelligent tagging of online texts using fuzzy logic
14:20 – 14:40	Xiaodi Huang, Weidong Huang and Wei Lai, UIP: Estimating True Rating Scores of Services through Online User Communities
14:40 – 15:00	Abdulrahman Al-Molegi, Mohammed Jabreel and Baraq Ghaleb, STF-RNN: Space Time Features-based Recurrent Neural Network for Predicting People Next Location
15:00 – 15:20	Dionisis Margaris and Costas Vassilakis, Pruning and Aging for User Histories in Collaborative Filtering
15:20 – 15:40	Hojjat Salehinejad and Shahryar Rahnamayan, Customer Shopping Pattern Prediction: A Recurrent Neural Network Approach
15:40 – 16:00	Ali Idri and Ibtissam Abnane, Evaluating Fuzzy Analogy with Incomplete Software Projects data
14:00 – 16:00	CICS Session 1, Room Olympia Chairs: Dipankar Dasgupta, Madalina Drugan
14:00 – 14:20	Julio Navarro-Lara, Pierre Parrend and Aline Deruyver, Morwilog: an ACO-based System for Outlining Multi-Step Attacks
14:20 – 14:40	Saeed M. Alqahtani and Robert John, A Comparative Study of Different Fuzzy Classifiers for Cloud Intrusion Detection Systems' Alerts
14:40 – 15:00	Madalina Drugan, A Bayesian model for anomaly detection in SQL databases for security systems

15:00 – 15:20	Hanan Hibshi, Travis D. Breaux and Christian Wagner, Improving Security Requirements Adequacy: An Interval Type 2 Fuzzy Logic Security Assessment System
15:20 – 15:40	Nitin Naik, Big Data Security Analysis Approach Using Computational Intelligence Techniques in R for Desktop Users
16:00 – 16:15	Coffee break
16:15 – 18:15	CiDUE Session 1, Room 1A Chairs: Robi Polikar, Shengxiang Yang
16:15 – 16:35	Marta Vallejo and David Corne, Evolutionary Algorithms under Noise and Uncertainty: a location-allocation case study
16:35 – 16:55	Xingguang Peng and Zhe Shi, Finding Informative Collaborators for Cooperative Coevolutionary Algorithms Using a Dynamic Multi-population Framework
16:55 – 17:15	Loukia Karanikola and Isambo Karali, Dempster-Shafer Logical Model for Fuzzy Description Logics
17:15 – 17:35	Aman Soni, Peter Lewis and Aniko Ekart, Offline and Online Time in Sequential Decision-Making Problems
17:35 – 17:55	Muhammad Umer, Christopher Frederickson and Robi Polikar, Learning Under Extreme Verification Latency Quickly: FAST COMPOSE
17:55 – 18:15	Shaaban Sahmoud and Haluk Topcuoglu, Sensor-Based Change Detection Schemes for Dynamic Multi-Objective Optimization Problems
16:15 – 18:15	CIR2AT, Room 1B
	Chairs: Georgios Kouroupetroglou, Konstantinos Tsiakas
16:15 – 16:35	Eleni Efthimiou, Stavroula-Evita Fotinea, Theodore Goulas, Maria Koutsombogera, Panagiotis Karioris, Anna Vacalopoulou, Isidoros Rodomagoulakis, Petros Maragos, Costas Tzafestas, Yiannis Koumpouros, Alexandra Karavasili, Panagiotis Siavelis, Foteini Koureta and Despoina Alexopoulou, The MOBOT Rollator Human-Robot Interaction Model and User Evaluation Process
16:35 – 16:55	Otilia Kocsis, Lukas Smirek, Ignacio Peinado, Eva de Lera, Till Riedel, Gottfried Zimmermann, Nadia Fendrich and Gregg Vanderheiden, DSpace: an Inclusive Repository for Cost-Efficient Development of Accessible Control Interfaces
16:55 – 17:15	Jim Torresen, Andreas Høyer Iversen and Ralf Greisiger, Data from Past Patients used to Streamline Adjustment of Levels for Cochlear Implant for New Patients
17:15 – 17:35	Rami Khushaba, Ahmed Al-Ani, Ali Al-Timemy and Adel Al-Jumaily, A Fusion of Time- Domain Descriptors for Improved Myoelectric Hand Control
17:35 – 17:55	Tanvir Anwar and Adel Al Jumaily, Estimation of Angle Based on EMG Using ANFIS
17:55 – 18:15	Konstantinos Tsiakas, Maher Abujelala, Alexandros Lioulemes and Fillia Makedon, An Intelligent Interactive Learning and Adaptation Framework for Robot-Based Vocational Training

16:15 – 18:15	CIEL, Room 2A Chairs: Yong Liu, Tao Ban
16:15 – 16:35	Matthias Sommer, Anthony Stein and Joerg Haehner, Local Ensemble Weighting in the Context of Time Series Forecasting Using XCSF
16:35 – 16:55	Ufuk Yolcu, Yaochu Jin and Erol Egrioglu, An Ensemble of Single Multiplicative Neuron Models for Probabilistic Prediction
16:55 – 17:15	Y. Liu, Negative Selections in Ensemble Learning
17:15 – 17:35	Michael Milliken, Yaxin Bi, Leo Galway and Glenn Hawe, Multi-objective optimization of base classifiers in StackingC by NSGA-II for intrusion detection
17:35 – 17:55	Petar Veličković, Duo Wang, Nicholas D. Lane and Pietro Liò, X-CNN: Cross-modal Convolutional Neural Networks for Sparse Datasets
17:55 – 18:15	Tao Ban and Daisuke Inoue, Feature Subset Selection by SVM Ensemble
16:15 – 18:15	CICARE Session 1, Room 2B Chairs: Michael Lewis, Santosh Tirunagari
	Chans. Whender Lewis, Suntosir Thanagari
16:15 – 16:35	Christina Klüver, Steering Clustering of medical data in a Self-Enforcing Network (SEN) with a Cue Validity Factor
16:35 – 16:55	Chao-Hui Huang and Emarene Kalaw, Automated Classification for Pathological Prostate Images using AdaBoost-based Ensemble Learning
16:55 – 17:15	Santosh Tirunagari, Simon Bull, Aki Vehtari, Christopher Farmer, Simon De Lusignan and Norman Poh, Automatic Detection of Acute Kidney Injury Episodes from Primary Care Data
17:15 – 17:35	Farhana Zulkernine, Daniel Lafreniere, David Barber and Ken Martin, Using Machine Learning to Predict Hypertension from a Clinical Dataset
17:35 – 17:55	Marta Vallejo, Jeremy Cosgrove, Jane E. Alty, Stuart Jamieson, Stephen L. Smith, David Corne and Michael A. Lones, Exploring Diagnostic Models of Parkinson's Disease with Multi-Objective Regression
17:55 – 18:15	Anqi Li, Michael Lewis, Christian Lebiere, Katia Sycara, Shehzaman Khatib, Yuqing Tang, Matthew Siedsma and Don Morrison, A Computational Model Based on Human Performance for Fluid Management in Critical Care
16:15 – 18:15	MBEA Session 1, Special Session on "Data-Driven Evolutionary Optimization of Computationally Expensive Problems" Room 3A Chairs: Yew Soon Ong, Chaoli Sun
16:15 – 16:35	Ahsanul Habib, Hemant Singh and Tapabrata Ray, A Study on the Effectiveness of Constraint Handling Schemes within Efficient Global Optimization Framework
16:35 – 16:55	Samineh Bagheri, Wolfgang Konen and Thomas Bäck, Online Selection of Surrogate Models for Constrained Black-Box Optimization
16:55 – 17:15	Pepijn van Heiningen, Bas van Stein and Thomas Bäck, A Framework for Evaluating Metamodels for Simulation-based Optimisation

17:15 – 17:35	Haibo Yu, Yin Tan, Chaoli Sun, Jianchao Zeng and Yaochu Jin, An Adaptive Model Selection Strategy for Surrogate-Assisted Particle Swarm Optimization Algorithm
17:35 – 17:55	Jie Tian, Yin Tan, Chaoli Sun, Jianchao Zeng and Yaochu Jin, A Self-adaptive Similarity-
	based Fitness Approximation for Evolutionary Optimization
17:55 – 18:15	Xingyi Zhang, Ye Tian, Ran Cheng and Yaochu Jin, Empirical Analysis of A Tree-based
	Efficient Non-dominated Sorting Approach for Many-Objective Optimization
16:15 – 18:15	FOCI Session 1, Special Session on "Emerging techniques in Computational Intelligence" Room 3B
	Chairs: Swati Aggarwal, Pietro Oliveto
16:15 – 16:35	María Pérez Ortiz, Pedro Antonio Gutiérrez, Mariano Carbonero-Ruz and César Hervás-
	Martínez, Adapting Linear Discriminant Analysis to the Paradigm of Learning from Label Proportions
16:35 – 16:55	Said Broumi, Assia Bakali, Mohamed Talea and Florentin Smarandache, Application of Dijkstra Algorithm for Solving Interval Valued Neutrosphic Shortest Path Problem
16:55 – 17:15	Anna Sergeevna Bosman, Andries Engelbrecht and Marde Helbig, Search Space Boundaries in Neural Network Error Landscape Analysis
17:15 – 17:35	Ilanthenral Kandasamy and Florentin Smarandache, Triple Refined Indeterminate
	Neutrosophic Sets for Personality Classification
17:35 – 17:55	Stefan Zuin, Manuel Escudero López, Francesc Moll, Antonio Rubio, Ioannis Vourkas and
	Georgios Sirakoulis, Experience on Material Implication Computing With an
	Electromechanical Memristor Emulator
17:55 – 18:15	Sander van Rijn, Hao Wang, Matthijs van Leeuwen and Thomas Bäck, Evolving the
	Structure of Evolution Strategies
16:15 – 18:15	CICA Session 1, Room 4A
	Chairs: Benson Christalin, Yoshihiko Miyasato
16:15 – 16:35	Enso Ikonen, Kaddour Najim and Alfonso Garcia-Cerezo, MacPherson suspension system modeling and control with MDP
16:35 – 16:55	Adèle Boche, Jean-Loup Farges and Henry De Plinval, A continuous and discrete
	framework for reconfiguration of control of faulty systems
16:55 – 17:15	Yoshihiko Miyasato, Adaptive H-infinity Consensus Control of Euler-Lagrange Systems on Directed Network Graph
17:15 – 17:35	Wufan Wang, Xiaming Yuan and Jihong Zhu, Automatic PID Tuning via Differential
	Evolution for Quadrotor UAVs Trajectory Tracking
17:35 – 17:55	Benson Christalin, Michele Colledanchise, Petter Ögren and Richard Murray, Synthesis of
	Reactive Control Protocols for Switch Electrical Power Systems for Commercial Application
	with Safety Specifications
17:55 – 18:15	Tsung Hsien Yu, The Closed-Form Solution of the Control Related States of Deficient Gen-
	Left k-th order System (the essential element of non-sharing subnet) of Petri Nets

16:15 – 18:15	CIDM Session 2, Room 4B Chairs: Jose Gamez, Christian Braune
16:15 – 16:35	Milan Pospíšil, Vladimír Bartík and Tomáš Hruška, Analyzing Machine Performance Using Data Mining
16:35 – 16:55	Juan A Aledo, Jose Gamez, David Molina and Alejandro Rosete, FSS-OBOP: Feature subset selection guided by a bucket order consensus ranking
16:55 – 17:15	Alexander Dockhorn, Christian Braune and Rudolf Kruse, Variable Density Based Clustering
17:15 – 17:35	Anirudh Alampally, Uday Kiran R, Krishna Reddy P and Masaru Kitsuregawa, Memory Efficient Mining of Periodic-Frequent Patterns in Transactional Databases
17:35 – 17:55	Safouane Cherki, Parisa Rastin, Guénaël Cabanes and Basarab Matei, Improved Sparse Prototyping for Relational K-means
17:55 – 18:15	Ali Idri and Safae Cherradi, Improving Effort Estimation of Fuzzy Analogy using Feature Subset Selection
16:15 – 18:15	CIES Session 2, Special Session on "Computational Intelligence in for Industrial Applications", Room Olympia
	Chairs: Catherine Huang and Vladik Kreinovich
16:15 – 16:35	Razvan Andonie, Anne Johansen, Amy Mumma, Holly Pinkart and Szilard Vajda, Cost efficient prediction of Cabernet Sauvignon wine quality
16:35 – 16:55	Kailong Liu, Kang Li, Jianhua Zhang and Mingming Lin, Modeling of Organic Rankine Cycle for Waste Heat Recovery Using RBF Neural Networks
16:55 – 17:15	Bruno Cunha, Ana Madureira, Joao Paulo Pereira and Ivo Pereira, Evaluating the Effectiveness of Bayesian and Neural Networks for Adaptive Scheduling Systems
17:15 – 17:35	Ibrahim Hameed, Robin T. Bye and Ottar L. Osen, Grey wolf optimizer (GWO) for Automated Offshore Crane Design
17:35 – 17:55	Ilianna Kollia and Georgios Siolas, Using the IBM Watson Cognitive System in Educational Contexts
17:55 – 18:15	Martin Poellot, Dominic Springer, Ralph Schleifer, Dieter Niederkorn and André Kaup, Identification of Irregular Motion in Automotive Navigation Systems Using Novelty Detection
18:15 – 19:00	Poster Session 1, Room Foyer of Olympia,

Chair: Ran Cheng, George Alexandridis

Pekka Siirtola, Heli Koskimäki and Juha Röning, Personal models for eHealth - improving user-dependent human activity recognition models using noise injection

Heli Koskimäki and Pekka Siirtola, Model Update in Wearable Sensors Based Human Activity Recognition

George Moustris and Costas Tzafestas, Intention-Based Front-Following Control for an Intelligent Robotic Rollator in Indoor Environments

Dhivyaprabha T T, Subashini P and Krishnaveni M, Computational Intelligence Based Machine Learning Methods For Rule-Based Reasoning In Computer Vision Applications

Saeed Mirghasemi, Peter Andreae, Mengjie Zhang and Ramesh Rayudu, Severely Noisy Image Segmentation via Wavelet Shrinkage Using PSO and Fuzzy C-Means

Koichi Sato, Junbo Wang and Zixue Cheng, Detecting Real-time Events using Tweets

Cheng-Hsiung Hsieh, Chun-Yu Chen and You-Jun Dai, Single Image Dehazing Based on Pixel Minimum Channel

Matthias Becker, Larissa Chazette and Helena Szczerbicka, Basic Algorithms for Bee Hive Monitoring and Laser-based Mite Control

Hassan Ibrahim, Mahmoud A. Sakr and Walid M. Aly, Metro Timetable optimization From Passenger Perspective Based on Simulation Models And Incomplete Data of Passenger Flow

Amjad Ullah, Jingpeng Li, Yindong Shen and Amir Hussain, Genetic optimization of fuzzy membership functions for cloud resource provisioning

Thomas Forss and Peter Sarlin, From News to Company Networks: Co-occurrence, sentiment, and information centrality

Muddu Madakyaru, Fouzi Harrou and Ying Sun, Improved Anomaly Detection Using Multiscale PLS and Generalized Likelihood Ratio Test

Fred Ma and Slawomir Wesolkowski, Estimating Force Mix Lower Bounds Using a Multi-

19:30 – 21:00 Reception for Women, Students and Young Professionals in CIS, Panorama Hall

Thursday, December 8, 2016

8:30 - 9:30	Plenary 3, Room Olympia Cooperative Intelligence - Beyond Autonomy, Bernhard Sendhoff, Honda Res. Inst. Europe Chair: Yaochu Jin
9:30 – 10:00	Coffee Break
10:00 – 12:00	CISDA Session 1, Room 1A Chairs: Rafael Falcon, Jason Rhinelander
10:00 – 10:20	Anthony Pinar, Joseph Rice, Timothy Havens, Matthew Masarik, Joseph Burns and Derek Anderson, Explosive Hazard Detection with Feature and Decision Level Fusion, Multiple

Kernel Learning, and Fuzzy Integrals

10:20 - 10:40

	objective Evolutionary Algorithm
10:40 - 11:00	Robert Hammell, Timothy Hanratty and Sheng Miao, Empirical Study on Combining
	Complementary and Contradictory Information in a Fuzzy-based System
11:00 - 11:20	Abhinav Anand, Ruggero Donida Labati, Angelo Genovese, Enrique Muñoz, Vincenzo Piuri,
	Fabio Scotti and Gianluca Sforza, Enhancing Fingerprint Biometrics in Automated Border
	Control with Adaptive Cohorts
11:20 - 11:40	Jason Rhinelander, Feature Extraction and Target Classification of Side-Scan Sonar Images
11:40 - 12:00	Mustafa Çöçelli and Ethem Arkın, A Threat Evaluation Model for Small-Scale Naval
	Platforms with Limited Capability
10:00 – 12:00	ADPRL Session 2, Special Session on "Fundamental Theory and Applications of ADP and
	Reinforcement Learning to Smart Grid"
	Room 1B
	Chairs: Qiuye Sun and Marco Wiering
10:00 - 10:20	Wang Chong, Frequency Stabilization Design for Interconnected Microgrid based on T-S
	Fuzzy Model with Multiple Time Delays
10:20 - 10:40	Jingwei Hu, Qiuye Sun and Fei Teng, A Game-Theoretic Pricing Model for Energy Internet
	in Day-Ahead Trading Market Considering Distributed Generations Uncertainty
10:40 - 11:00	Yihui Zuo and Xiangjun Li, Game Theory Applied in System of Renewable Power
	Generation with HVDC Out-sending Facilitated by Hundred Megawatts Battery Energy
	Storage Station
11:00 - 11:20	Qinglai Wei, Ruizhuo Song and Derong Liu, Iterative Q-Learning-Based Nonlinear Optimal
	Tracking Control
11:20 - 11:40	Suhas Shyamsundar, Tommaso Mannucci and Erik-Jan van Kampen, Reinforcement
	Learning based Algorithm with Safety Handling and Risk Perception
11:40 - 12:00	Mathijs Pieters and Marco Wiering, Q-learning with Experience Replay in a Dynamic
	Environment
40.00 40.00	
10:00 – 12:00	CIHLI Session 2, Room 2A
	Chairs: Janusz Starzyk, Jacek Mańdziuk
10:00 - 10:20	Sébastien Harispe, Jacky Montmain and Massissilia Medjkoune, Summarizing
	Conceptual Descriptions using Knowledge Representations
10:20 - 10:40	Seng-Beng Ho and Fiona Liausvia, A Ground Level Causal Learning Algorithm
10:40 - 11:00	Yilan Li, Zhe Li and Qinru Qiu, Assisting Fuzzy Offline Handwriting Recognition Using
	Recurrent Belief Propagation
11:00 - 11:20	Janusz Starzyk, James Graham and Adrian Horzyk, Trust in Motivated Learning Agents
11:20 - 11:40	Jacek Mańdziuk and Maciej Świechowski, Simulation-based approach to Vehicle Routing
	Problem with Traffic Jams
11:40 - 12:00	Adrian Horzyk, Janusz A. Starzyk and Fnu Basawaraj, Emergent creativity in declarative
	memories

10:00 – 12:00	MCDM Session 2, Special Session on "Evolutionary Multi-Objective Optimization" Room 2B
	Chairs: Sanaz Mostaghim, Kaisa Miettinen
10:00 – 10:20	Rui Wang, Hisao Ishibuchi, Yan Zhang, Xiaokun Zheng and Tao Zhang, On the effect of localized PBI method in MOEA/D for multi-objective optimization
10:20 – 10:40	Luciano Cruz, Flavia Bernardo, Roberto Freire, Leandro Coelho and Gilberto Reynoso- MezaRBF, Neural Network combined with Self-Adaptive MODE and Genetic Algorithm to Identify Velocity Profile of Swimmers
10:40 – 11:00	Zhun Fan, Wenji Li, Xinye Cai, Hui Li, Han Huang, Zhaoquan Cai and Caiming Wei, An Improved Epsilon Constraint Handling Method Embedded in MOEA/D for Constrained Multi-objective Optimization Problems
11:00 – 11:20	Shouyong Jiang, Shengxiang Yang and Miqing Li, On The Use of Hypervolume for Diversity Measurement of Pareto Front Approximations
11:20 – 11:40	Miriam Pescador-Rojas and Carlos A. Coello-Coello, A Novel Local Search Mechanism Based on the Reflected Ray Tracing Method Coupled to MOEA/D
11:40 – 12:00	Oded Maler and Abhinav Srivastav, Double Archive Pareto Local Search
10:00 – 12:00	RiiSS Session 1, Special Issue on "Robot System Integration in Human Life" Room 3A Chairs: Chu Kiong Loo, Takenori Obo
10:00 – 10:20	Wei Quan and Kubota Naoyuki, Stereo Surveillance System for Fall Detection
10:20 – 10:40	Hossein Ghaffari Nik and Nathalia Peixoto, Assessment of Evolutionary Processes - Experiments on Self-Organizing Behavior of E-pucks
10:40 – 11:00	Pei-Wei Tsai, Jing Zhang, Yao He, Li-Hui Yang, Jui-Fang Chang and Wein-Duo Yang, IABC Rotobtic Evolutionary Model for the Foreign Exchange Rate Prediction in Central America Trading Agreement Events
11:00 – 11:20	Naoki Masuyama and Chu-Kiong Loo, Growing Neural Gas with Correntropy Induced Metric
11:20 – 11:40	Mutsumi Iwasa, Naoyuki Kubota and Takenori Obo, Motion Generation of Multi-Legged Robot by using Knowledge Transfer in Rough Terrain
11:40 – 12:00	Yoshifumi Kokubo, Eri Sato-Shimokawara and Toru Yamaguchi, Movement Support System of Telepresence Robot Based on Operating Skill
10:00 – 12:00	FOCI Session 2, Special Session on " Unconventional Computing: From concepts to Prototypes"
	Room 3B Chairs: Georgios Sirakoulis, Pietro Oliveto
10:00 – 10:20	Jonathan Edwards and Simon O'Keefe, Eager Recirculating Memory to Alleviate the Von Neumann Bottleneck
10:20 – 10:40	Silvia Battistoni, Regina Burganova and Victor Erokhin, Organic memeristive device as transistor: working principle and possible applications

10:40 - 11:00	Yiqi Deng, Peter Bentley and Momshad Dinuri Alvee, Improving Artificial-Immune-System-Based Computing by Exploiting Intrinsic Features of Computer Architectures
11:00 – 11:20	Kai Ming Chang, Maurits R. R. de Planque and Klaus-Peter Zauner, Fabricating Millifluidic
	Reaction-Diffusion Devices: Droplet-in-Oil Networks Structured by Laser Cutting
11:20 - 11:40	David Pelta, Virgilio C.Guzmán and Jose Luis Verdegay, Fuzzy maximal covering location
	models for fighting dengue
11:40 - 12:00	Arina Buzdalova, Irina Petrova and Maxim Buzdalov, Runtime Analysis of Different
	Approaches to Select Conflicting Auxiliary Objectives in the Generalized OneMax Problem
10:00 – 12:00	ICES Session 2, Special Session on "Evolutionary Robotics"
	Room 4A
	Chairs: Jim Torresen, Kyrre Glette
10:00 – 10:20	Milan Jelisavcic, Matteo De Carlo, Evert Haasdijk and A.E. Eiben, Improving RL Power for
	On-Line Evolution of Gaits in Modular Robots
10:20 – 10:40	Boris Mocialov, Patricia A Vargas and Micael S Couceiro, Towards the Evolution of Indirect Communication for Social Robots
10:40 - 11:00	Vojtech Vonasek and Jan Faigl, Evolution of multiple gaits for modular robots
11:00 – 11:20	Anthony Clark, Byron Devries, Jared Moore, Betty Cheng and Philip Mckinley, An
	Evolutionary Approach to Discovering Execution Mode Boundaries for Adaptive Controllers
11:20 - 11:40	Else-Line Ruud, Eivind Samuelsen and Kyrre Glette, Memetic Robot Control Evolution and
	Adaption to Reality
11:40 – 12:00	Tønnes F. Nygaard, Jim Torresen and Kyrre Glette, Multi-objective Evolution of Fast and
	Stable Gaits on a Physical Quadruped Robotic Platform
10:00 – 12:00	CIDM Session 3, Special Session on "Mining the sky: knowledge discovery in big and
	complex astronomical data sets and data streams"
	Room 4B
	Chairs: Erzsébet Merényi, George Djorgovski
10:00 - 10:20	Sven Dennis Kügler, Nikolaos Gianniotis and Kai Lars Polsterer, A Spectral Model for
	Multimodal Redshift Estimation
10:20 – 10:40	Kinjal Dhar Gupta, Renuka Pampana, Ricardo Vilalta, Emille Ishida and Rafael de
	Souza, Automated Supernova Ia Classification Using Adaptive Learning Techniques
10:40 – 11:00	Erzsebet Merenyi, Joshua Taylor and Andrea Isella, Mining Complex Hyperspectral ALMA
11.00 11.20	Cubes for Structure with Neural Machine Learning
11:00 – 11:20	Stefano Cavuoti, Massimo Brescia, Valeria Amaro, Civita Vellucci, Guiseppe Longo and Crescenzo Tortora, Probability density estimation of photometric redshifts based on
	machine learning
11:20 - 11:40	Aaron Pope, Daniel Tauritz and Alexander Kent, Evolving Random Graph Generators: A
·· v	Case for Increased Algorithmic Primitive Granularity
11:40 - 12:00	Aaron Pope, Daniel Tauritz, A. Kent, Evolving Multi-level Graph Partitioning Algorithms
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10:00 – 12:00	SDE Session 1, Room Olympia
	Chairs: George Stamou, Jinliang Ding
10:00 – 10:20	Adam Viktorin, Roman Senkerik, Michal Pluhacek and Ales Zamuda, Steady Success
10.00 10.20	Clusters in Differential Evolution
10:20 - 10:40	Hojjat Salehinejad and Shahryar Rahnamayan, Effects of Centralized Population
	Initialization in Differential Evolution
10:40 – 11:00	Xinran Ma and Jinliang Ding, A Preferred Learning Based Adaptive Differential Evolution Algorithm for Large Scale Optimization
11:00 – 11:20	Sedigheh Mahdavi, Shahryar Rahnamayan and Kalyanmoy Deb. Partial Opposition-based Learning Using Current Best Candidate Solution
11:20 – 11:40	Uroš Mlakar, Janez Brest, Iztok Jr. Fister and Iztok Fister, A study of Chaotic maps in
	Differential Evolution applied to gray-level Image Thresholding
11:40 - 12:00	Iztok Jr. Fister, Janez Brest, Uroš Mlakar and Iztok Fister, Towards the universal framework
	of stohastic nature-inspired population-based algorithms
12:00 – 13:00	Lunch Break
12.00 - 13.00	Euron Break
13:00 – 14:00	Plenary 4, Room Olympia
	EC at Work: Opportunities and Challenges, K C Tan, National Univ. Singapore
	Chair: George Alexandridis
14:00- 16:00	ISIC. Room 1A
14:00- 16:00	ISIC, Room 1A Chairs: Qiangfu Zhao, Cheng-Hsiung Hsieh
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14:00– 16:00 14:00 – 14:20	Chairs: Qiangfu Zhao, Cheng-Hsiung Hsieh Evgeny Pyshkin and Matvei Pyshkin, Towards Better Requirement Definition for
14:00 – 14:20	Chairs: Qiangfu Zhao, Cheng-Hsiung Hsieh Evgeny Pyshkin and Matvei Pyshkin, Towards Better Requirement Definition for Multimedia Travel Guiding Applications
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14:20 – 14:40	Vaishali Kulkarni, Veena Desai and Raghavendra Kulkarni, Multistage Localization in Wireless Sensor Networks using Artificial Bee Colony Algorithm
14:40 – 15:00	Zhicheng Zhou, Biao Yuan, Pengfei Xiao and Chaoyong Zhang, A modified honey bees
20 20.00	mating optimization algorithm for assembly line balancing problem
15:00 – 15:20	Hadi Nobahari, Mohsen Raoufi and Alireza Sharifi, A Heuristic Filter Based on Firefly
20.00 20.20	Algorithm for Nonlinear State Estimation
15:20 – 15:40	Ashraf Abdelbar and Khalid Salama, Ant Colony Optimization Applied to the Optimization
13.20 13.10	Process of a High Order Neural Network
15:40 – 16:00	Dalicia Bouallouche, Jean-Baptiste Vioix, Eric Busvelle and Stéphane Millot, Drivers-
15.40 10.00	Inspired Ants for Solving the Vehicle Routing Problem with Time Windows
	inspired with for solving the vehicle routing fromein with time windows
14:00 – 16:00	CiFER Session 3, Room 2A
14.00 10.00	Chairs: Nikos Loukeris, Robert Golan
	Chairs. Nikos Edukeris, Nobert Goldin
14:00 – 15:00	Keynote Speech
11.00 13.00	Computational Intelligence for Financial Engineering and Economics, Edward Tsang
15:00 – 15:20	Luis Jairo Montesdeoca Bermudez and Mahesan Niranjan, Extending the feature set of a
13.00 13.20	data-driven artificial neural network model of pricing financial options
15:20 – 15:40	Ernesto Leon Castro, Ezequiel Aviles Ochoa, José M. Merigó and Anna Maria Gil Lafuente,
15.20 15.40	Forgotten effects and heavy moving averages in exchange rate
15:40 – 16:00	Andrew Todd, Peter Beling, William Scherer and Steve Yang, Agent-based financial
13.40 - 10.00	markets: A review of the methodology and domain
	markets. A review of the methodology and domain
14:00- 16:00	CIVTS Session 2, Room 2B
	Chairs: Tobias Rodemann, Yi Lu Murphy
	, ,
14:00 -15:00	Keynote Speech
	Computational Intelligence in Vehicles and Transportation Systems, Yi Lu Murphy
15:00 – 15:20	Manuel Acosta, Stratis Kanarachos and Mike Blundell, Vehicle agile maneuvering: From
	rally drivers to a finite state machine approach
15:20 - 15:40	Elnaz Limouchi and Imad Mahgoub, BEFLAB: Bandwidth Efficient Fuzzy Logic-Assisted
	Broadcast for VANET
15:40 – 16:00	Yue Dai, Qianyi Wang, Yi Murphey, Shiqi Qiu, Johannes Kristinsson and Jason Meyer,
	Dynamic Prediction of Drivers' Personal Routes through Machine Learning
14:00 – 16:00	MBEA Session 2, Special session on "Data-Driven Evolutionary Optimization of
	Computationally Expensive Problems"
	Room 3A
	Chairs: Chaoli Sun, Ran Cheng
14:00 - 14:20	Dan Guo, Tianyou Chai, Jinliang Ding and Yaochu Jin, Small Data Driven Evolutionary
	Multi-objective Optimization of Fused Magnesium Furnaces
14:20- 14:40	Xuhua Shi, Chudong Tong and Li Wang, Evolutionary Optimization with Adaptive
	Surrogates and its Application in Crude Oil Distillation
	Surrogates and its Application in Crude Oil Distillation

14:40– 15:00 15:00– 15:20	Anqi Pan, Lei Wang, Weian Guo and Dongyang Li, A multi-swarm approach to multiobjective synthesis of linear antenna array design Nikolaos Makrymanolakis, Magdalene Marinaki and Yannis Marinakis, Data Mining Parameters' Selection Procedure Applied to a Multi-Start Local Search Algorithm for the Permutation Flow Shop Scheduling Problem
15:20- 15:40	Tao Lin, Ke Zhang, Naigang Cui, Zhenbiao Tu and Hu Zhang, Path Planning of Aircraft Based on Adaptive Multiobjective Estimation of Distribution Algorithm
15:40- 16:00	Oksana Shadura and Federico Carminati, Stochastic performance tuning of complex simulation applications using unsupervised machine learning
14:00- 16:00	CIPLS, Room 3B Chairs: Julia Pahl, Erwin Pesch
14:00 – 14:20	Erwin Pesch, Mikhail Y. Kovalyov, Dominik Kress and Sebastian Meiswinkel, Decentralized Sequencing of Jobs on a Single Machine
14:20 – 14:40	Sophie Jacquin, Emilie Allart, Fanny Dufossé and Laetitia Jourdan, Decoder-based Evolutionary Algorithm for bi-objective Just-in-Time Job-shop
14:40 – 15:00	Mustapha Haouassi, Chloé Desdouits, Rodolphe Giroudeau and Claude Le Pape, Production scheduling with a piecewise-linear energy cost function
15:00 – 15:20	El Houssein Chouaib Harik, François Guérin, Frédéric Guinand, Jean-François Brethé and Hervé Pelvillain, Towards An Autonomous Warehouse Inventory Scheme
15:20 - 15:40	Julia Pahl and Stefan Voss, Load Dependent Lead Times and Sustainability
15:40 – 16:00	Oliver Meyer and Claus Weihs, Statistical Analysis of sequential Process Chains based on Errors-in-Variables Models
14:00- 16:00	CICA Session 2, Room 4A
	Chairs: Mehrdad Saif, Karam Sallam
14:00 – 14:20	Tim Oliver Heinz and Oliver Nelles, Efficient Pole Optimization of Nonlinear Laguerre Filter Models
14:20 – 14:40	Julian Belz, Tim Oliver Heinz and Oliver Nelles, Automated Order Determination Strategies for Nonlinear Dynamic Models
14:40 – 15:00	José A. R. Vargas, Emerson Grzeidak and Sadek C. A. Alfaro, Identification of unknown nonlinear systems based on multilayer neural networks and Lyapunov theory
15:00 – 15:20	Fouzi Harrou, Muddu Madakyaru and Ying Sun, Nonlinear Partial Least Squares with Hellinger Distance for Nonlinear Process Monitoring
15:20 – 15:40	Maryam Farajzadeh-Zanjani, Roozbeh Razavi-Far and Mehrdad Saif, Efficient Sampling Techniques for Ensemble Learning and Diagnosing Bearing Defects under Class Imbalanced Condition
15:40 – 16:00	Karam Sallam, Saber Elsayed, Ruhul Sarker and Daryl Essam, Two-phase Differential Evolution Framework for Solving Optimization Problems

14:00 – 16:00	CIDM Session 4, Special Session on "Computational Intelligence Applications in Bioinformatics" Room 4B Chairs: Ali Reza Khanteymoori, Syoji Kobashi
14:00 – 14:20	Abeer Alzubaidi, Georgina Cosma, David Brown and A. Graham Pockley, A New Hybrid Global Optimization Approach for Selecting Clinical and Biological Features that are Relevant to the Effective Diagnosis of Ovarian Cancer
14:20 – 14:40	Samaneh Kouchaki, Santosh Tirunagari, Avraam Tapinos and David L Robertson, Local Binary Patterns as a Feature Descriptor in Alignment-Free Visualisation of Metagenomic Data
14:40 – 15:00	Zhun Fan, Jiewei Lu and Yibiao Rong, Automated Blood Vessel Segmentation of Fundus Images Using Region Features of Vessels
15:00 – 15:20	Sinem Sav, David J. D. Hampson and Herbert H. Tsang, SIMARD: A Simulated Annealing Based RNA Design Algorithm with Quality Pre-Selection Strategies
15:20 – 15:40	Lin Zhang, Steffen Walter, Xueyao Ma, Philipp Werner, Ayoub Al-Hamadi, Harald C. Traue and Sascha Gruss, "BioVid Emo DB": A Multimodal Database for Emotion Analyses validated by Subjective Ratings
15:40 – 16:00	Anwar Saeed, Ayoub Al-Hamadi and Sebastian Handrich, Advancement in the head pose estimation via depth-based face spotting
14:00 – 16:00	CICS Session 2, Room Olympia Chairs: Gerry Dozier, Mustafa Hajeer
14:00 – 14:20	Kul Prasad Subedi, Dipankar Dasgupta and Bo Chen, Security Analysis on InfiniBand Protocol Implementations
14:20 – 14:40	Neal Wagner, Cem Sahin, Michael Winterrose, James Riordan, Jaime Pena, Diana Hanson and William Streilein, Towards Automated Cyber Decision Support: A Case Study on Network Segmentation for Security
14:40 – 15:00	Stefan Burschka and Benoit Dupasquier, Tranalyzer: Versatile High Performance Network Traffic Analyser
16:00 – 16:15	Coffee Break
16:15 – 18:15	CiDUE Session 2, Room 1A Chairs: Shengxiang Yang, Robi Polikar
16:15 – 16:35	Joseph Alexander Brown and Daniel Ashlock, Multiple Worlds Model of Evolution for Demographic Appropriate Radio Playlists
16:35 – 16:55	Jayne Eaton and Shengxiang Yang, Railway Platform Reallocation After Dynamic Perturbations Using Ant Colony Optimisation
16:55 – 17:15	Darren Chitty, Mario Gongora and Shengxiang Yang, Evolutionary Dynamic Optimisation of Airport Security Lane Schedules

17:15 – 17:35	Roozbeh Razavi-Far and Mehrdad Saif, Ensemble of extreme learning machines for diagnosing bearing defects in non-stationary environments under class imbalance condition
17:35 – 17:55	Jessica Bonson, Andy Mcintyre and Malcolm Heywood, On Novelty Driven Evolution in Poker
17:55 – 18:15	Jaspreet Bassan and Marcus Dos Santos, Classifying Streaming Data using Grammar-based Immune Programming
16:15 – 18:15	ADPRL Session 3, Room 1B Chairs: Dongbin Zhao, Madalina Drugan
16:15 – 17:15	Keynote Speech Adaptive Dynamic Programming and Reinforcement Learning, <i>Zhongping Jiang</i> ,
17:15 – 17:35	Simone Parisi, Alexander Blank, Tobias Viernickel and Jan Peters, Local-utopia Policy Selection for Multi-objective Reinforcement Learning
17:35 – 17:55	Toru Hishinuma and Kei Senda, Robust and Explorative Behavior in Model-based Bayesian Reinforcement Learning
17:55 – 18:15	Zhentao Tang, Dongbin Zhao, Kun Shao and Le Lv, ADP with MCTS algorithm for Gomoku
16:15 – 18:15	CiFER Session 4, Room 2A Chairs: Nikos Loukeris, Robert Golan
16:15 – 16:35	Felipe B. Oriani and Guilherme P. Coelho, Evaluating the Impact of Technical Indicators on Stock Forecasting
16:35 – 16:55	Vasco Grossmann and Manfred Schimmler, Portfolio-based Contract Selection in Future Commodity Markets
16:55 – 17:15	Gobind Preet Singh, Ruppa Thulasiram and Parimala Thulasiraman, Non-Dominant Sorting Firefly Algorithm for Pricing American Option
17:15 – 17:35	Amer Bakhach, Edward P K Tsang and Hamid Jalalian, Forecasting Directional Changes in the FX Markets
17:35 – 17:55	Haizhou Qu and Dimitar Kazakov, Quantifying Correlation between Financial News and Stocks
16:15 – 18:15	CICARE Session 2, Room 2B Chairs: Tatiana Tambouratzis, Babagana Modu
16:15 – 17:15	Keynote Speech Computational Intelligence in Healthcare and e-health, Kaizhu Huang
17:15 – 17:35	Zeynep Didem Unutmaz Durmusoglu and Pınar Kocabey ÇİfÇİ, Classification of Smoking Status: The Case of Turkey
17:35 – 17:55	Ward van Breda, Mark Hoogendoorn, Gusz Eiben, Gerhard Andersson, Heleen Riper, Jeroen Ruwaard and Kristofer Vernmark, A feature representation learning method for temporal datasets

17:55 – 18:15	Babagana Modu, A. Taufiq Asyhari and Yonghong Peng, Data Analytics of Climatic Predictor Influence on the Impact of Malaria Incidence
16:15 – 18:15	FASLIP Session 3, Room 3A
	Chairs: Juha Karhunen, Bing Xue
16:15 – 16:35	Evgenia Papavasileiou and Bart Jansen, A comparison between FS-NEAT and FD-NEAT and an investigation of different initial topologies for a classification task with irrelevant features
16:35 – 16:55	Chen Zhao, Mark van Heeswijk and Juha Karhunen, Air Quality Forecasting using Neural Networks
16:55 – 17:15	Yuanlong Yu, Liyan Xie and Zhiyong Huang, An Object Tracking Method Using Extreme Learning Machine with Online Learning
17:15 – 17:35	Binh Tran, Mengjie Zhang and Bing Xue, Multiple Feature Construction in High- Dimensional Data Using Genetic Programming
17:35 – 17:55	Huy Quang Pham, Alioune Ngom and Luis Rueda, PAFS – an efficient method for classifier-specific feature selection
17:55 – 18:15	Pierre Willaume, Pierre Parrend, Aline Deruyver and Etienne Gancel, Harmony Search: Graph Matching Optimization for thin object recognition in Pick and Place tasks
16:15 – 18:15	CIES Session 3, Room 3B Chairs: Vladik Kreinovich, Catherine Huang
16:15 – 17:15	Keynote Speech
17:15 – 17:35	Computational Intelligence for Engineering Solutions, Catherine Huang, Intel USA Camilo Caraveo, Fevrier Valdez, Oscar Castillo and Patricia Melin, A new metaheuristic algorithm based on the self-defense process of the plants in nature
17:35 – 17:55	María Pérez Ortiz, Pedro Antonio Gutierrez, José Manuel Peña, Jorge Torres-Sánchez, Francisca López-Granados and César Hervás-Martínez, Machine Learning paradigms for Weed Mapping via Unmanned Aerial Vehicles
17:55 – 18:15	Petr Dolezel, Pavel Škrabánek and Lumir Gago Pattern Recognition Neural Network as a Tool for Pest Birds Detection
16:15 – 18:15	CIBD, Room 4A Chairs: Spencer Thomas, Seiichi Ozawa
16:15 – 16:35	Yosuke Kamikawaji, Haruki Matsuyama, Ken-Ichi Fukui, Shigeki Hosoda and Satoshi Ono, Decision Tree-based Feature Function Design in Conditional Random Field Applied to Error Detection of Ocean Observation Data
16:35 – 16:55	Spencer Thomas, Alan M. Race, Rory T. Steven, Ian S. Gilmore and Josephine Bunch, Dimensionality Reduction of Mass Spectrometry Imaging Data using Autoencoders
16:55 – 17:15	Mustafa Hajeer and Dipankar Dasgupta, Distributed Genetic Algorithm to Big Data Clustering

17:15 – 17:35	Andreas Antoniades, Clive Cheong Took and Yaochu Jin, An improved mini-batching technique: Sample-and-Learn
17:35 – 17:55	Tuan Pham, Entropy Rates of Physiological Aging on Microscopy
17:55 – 18:15	Seiichi Ozawa, Shun Yoshida, Jun Kitazono, Takahiro Sugawara and Tatsuya Haga, A
	Sentiment Polarity Prediction Model Using Transfer Learning and Its Application to SNS Flaming Event Detection
	Flathing Event Detection
16:15 – 18:15	CIDM Session 5, Room 4B
	Chairs: Friedhelm Schwenker, Andreas Nürnberger
16:15 – 16:35	Erik Zamora and Humberto Sossa, Dendrite Morphological Neurons Trained by Stochastic
	Gradient Descent
16:35 – 16:55	Siamak Mehrkanoon and Johan A.K. Suykens, Scalable Semi-Supervised Kernel Spectral Learning using Random Fourier Features
16:55 – 17:15	Ali Haidar and Brijesh Verma, A Genetic Algorithm Based Feature Selection Approach
	for Rainfall Forecasting in Sugarcane Areas
17:15 – 17:35	Giovanni Acampora, Genoveffa Tortora and Autilia Vitiello, Comparison of Multi-
	objective Evolutionary Algorithms for Prototype Selection in Nearest Neighbor
	Classification
17:35 – 17:55	Lei Zhu, Tao Ban, Kazushi Ikeda, Paul Pang and Abdolhossein Sarrafzadeh, Distributed
47.55 40.45	Incremental wLPSVM Learning
17:55 – 18:15	Willem S. van Heerden and Andries P. Engelbrecht, An Investigation into the Effect of Unlabeled Neurons on Self-Organizing Maps
	Offiabeled Neurons off Sen-Organizing Waps
40.45 40.45	
16:15 – 18:15	ClASG Session 3, Room Olympia
	Chairs: Kumar Venayagamoorthy, Zita Vale
16:15 – 17:15	Keynote Speech
	Computational Intelligence Applications in Smart Grid, Zita Vale, P.
17:15 – 17:35	Andre Gensler, Bernhard Sick and Stephan Vogt, A Review of Deterministic Error Scores
17:35 – 17:55	and Normalization Techniques for Power Forecasting Algorithms Usman Sanusi and David Corne, Improving forecast accuracy for grid demand and
17.33 – 17.33	renewables supply with pattern-match features
17:55 – 18:15	Denise M. Case and Chrysostomos D. Stylios, Introducing Fuzzy Cognitive Map Modeling
	Power Market Auction Behavior
20:30 – 23:00	Conference Banquet, Caravel Hotel
20.00 20.00	Somerone bungaen Caravor Hotol

Friday, December 9, 2016

8:30-9:30	Plenary 5, Room Olympia Cognitive Dialog Systems, Lazaros Polymenakos, IBM, USA Chair: Stefanos Kollias
9:30- 10:00	Coffee Break
10:00 – 12:00	FOCI Session 3, Room 1A Chairs: Ojeda Aciego, Pietro Oliveto
10:00 – 10:20	Ryouei Takahashi, Empirical Evaluation of Changing Crossover Operators to Solve Function Optimization Problems
10:20- 10:40	Xiao-Bing Hu, Ming-Kong Zhang and Jian-Qin Liao, A Ripple-Spreading Algorithm for Network Performance Assessment
10:40 – 11:00	Emanuel Diamant, Computational Intelligence: are you crazy? Since when has intelligence become computational?
11:00 – 11:20	Antonio M. Durán-Rosal, Juan C. Fernández, Pedro A. Gutiérrez and César Hervás- Martínez, Hybridization of neural network models for the prediction of extreme significant wave height segments
11:20 – 11:40	Tatyana Polevaya and Maxim Buzdalov, Preserving Diversity in Auxiliary Objectives Provably Speeds Up Crossing Plateaus
11:40 – 12:00	David Shorten and Geoff Nitschke, Neutral Network Assortativity Shapes Whether Selective Pressure Promotes or Hinders Robustness
10:00 – 12:00	SIS Session 4, Room 1B Chairs: Andreas Stafylopatis, Parimala Thulasiram
10:00– 11:00	Keynote Speech Swarm Intelligence Symposium, Maurice Clerc
11:00 – 11:20	Han-Yu Xie, Qiang Yang, Xiao-Min Hu and Wei-Neng Chen, Cross-Generation Elites Guided Particle Swarm Optimization for Large Scale Optimization
11:20 – 11:40	Michal Pluhacek, Tomas Kadavy, Roman Senkerik, Adam Viktorin and Ivan Zelinka, Comparing Selected PSO Modifications on CEC 15 Benchmark Set
11:40 – 12:00	Wayne Franz and Parimala Thulasiram, A Dynamic Cooperative Hybrid MPSO+GA on Hybrid CPU+GPU fused Multicore
10:00 – 12:00	CIHLI Session 3, Room 2A Chairs: Jacek Mańdziuk, Janusz Starzyk
10:00- 11:00	Keynote Speech Computational Intelligence for Human-like Intelligence, <i>Lipo Wang</i> ,
11:00 – 11:20	Kathryn Merrick, Medria Hardhienata, Kamran Shafi and Jiankun Hu, Using Game Theory with Intrinsic Motivation to Examine Anti-Hacking Policies for Autonomous Systems

Motive Profile of Users in Virtual Worlds and Games 11:40 – 12:00 Israel Dunk and Hussein Abbass, Emergence of Autonomy in Leader-Fo Systems 10:00 – 12:00 MCDM Session 3, Room 2B Chairs: Kaisa Miettinen, Marde Helbig 10:00 – 11:00 Keynote Speech Multi-objective Evolutionary Algorithms assisted by Artificial Neural Neural Neurolation Techniques – Industrial Applications, Kyriako. 11:00 – 11:20 Cristian Ramírez-Atencia, Gema Bello Orgaz, Maria D. R-Moreno and D MOGAMR: A Multi-Objective Genetic Algorithm for Real-Time Mission 11:20 – 11:40 Marde Helbig, Padding the Dimensions for Knowledge Transfer in the D	ollower Bio-Inspired
 10:00 – 12:00 MCDM Session 3, Room 2B Chairs: Kaisa Miettinen, Marde Helbig 10:00 – 11:00 Keynote Speech Multi-objective Evolutionary Algorithms assisted by Artificial Neural Neural Neuronality Reduction Techniques – Industrial Applications, Kyriako. 11:00 – 11:20 Cristian Ramírez-Atencia, Gema Bello Orgaz, Maria D. R-Moreno and D. MOGAMR: A Multi-Objective Genetic Algorithm for Real-Time Mission 	
Chairs: Kaisa Miettinen, Marde Helbig 10:00 – 11:00	
10:00 – 11:00 Keynote Speech Multi-objective Evolutionary Algorithms assisted by Artificial Neural Neural Neuronality Reduction Techniques – Industrial Applications, <i>Kyriako</i> . 11:00 – 11:20 <i>Cristian Ramírez-Atencia, Gema Bello Orgaz, Maria D. R-Moreno and D. MOGAMR:</i> A Multi-Objective Genetic Algorithm for Real-Time Mission	
Multi-objective Evolutionary Algorithms assisted by Artificial Neural Ne	
Dimensionality Reduction Techniques – Industrial Applications, <i>Kyriako</i> . 11:00 – 11:20 <i>Cristian Ramírez-Atencia, Gema Bello Orgaz, Maria D. R-Moreno and D MOGAMR:</i> A Multi-Objective Genetic Algorithm for Real-Time Mission	
11:00 – 11:20 Cristian Ramírez-Atencia, Gema Bello Orgaz, Maria D. R-Moreno and D MOGAMR: A Multi-Objective Genetic Algorithm for Real-Time Mission	etworks and
MOGAMR: A Multi-Objective Genetic Algorithm for Real-Time Mission	s Giannakoglou
	avid Camacho,
11:20 – 11:40 Marde Helbia. Padding the Dimensions for Knowledge Transfer in the D	Replanning
the beautiful th	ynamic Vector
Evaluated Particle Swarm Optimisation Algorithm	
11:40 – 12:00 Daniel Horn and Bernd Bischl, Multi-Objective Parameter Configuration	າ of Machine
Learning Algorithms using Model-Based Optimization	
10:00 – 12:00 MBEA Session 3, Room 3A	
Chairs: Ran Cheng, Aimin Zhou	
10:00 – 10:20 Bing Dong, Aimin Zhou and Guixu Zhang, A Hybrid Estimation of Distri	ibution Algorithm
with Differential Evolution for Global Optimization	button Algorithm
10:20 – 10:40 <i>Martin Hyrš and Josef Schwarz,</i> Advanced Parallel Copula Based EDA	
10:40 – 11:00 Dimitrios Kapsoulis, Kostantinos Tsiakas, Varvara Asouti and Kyriakos G	Giannakoalou The
use of Kernel PCA in Evolutionary Optimization for Computationally De	_
Engineering Applications	
11:00 – 11:20 Fergal Lane, R. Muhammad Atif Azad and Conor Ryan, Principled Evolu	tionary Algorithm
Search Operator Design and the Kernel Trick	
11:20 – 11:40 Fernando Arce Vega, Erik Zamora Gomez, Juan Humberto Sossa Azuela	
Fernández, Dendrite Morphological Neural Networks Trained by Differe	ential Evolution
11:40 – 12:00 Valérian Guivarch, Juan Francisco De Paz Santana, Gabriel Villarrubia, J	lavier Bajo, André
Péninou and Valerie Camps, Hybrid system to analyze user's behaviour	
10:00 – 12:00 CIES Session 4, Room 3B	
Chairs: Catherine Huang and Vladik Kreinovich	
10:00 – 10:20 Ferenc Leichsenring, Wolfgang Graf and Michael Kaliske, Spiking Respo	nse Model for
Uniaxial Carbon Concrete Experimental Data	nise ividuel for
10:20– 10:40 Aleksandar Josifovic and Jonathan Corney, Development of industrial pa	rocess
characterisation through data analysis	
10:40 – 11:00 Isabela Maria Carneiro de Albuquerque, João Monteiro, Fernando B. De	e Lima Neto and
Alany M. de Oliveira Silva, Solving assembly line balancing problems v	

11:00 – 11:20	Erik H.A. Duisterwinkel, Gijs Dubbelman, Libertario Demi, Elena Talnishnikh, Jan W.M. Bergmans and Heinrich J. Woertche, Mapping Swarms of Resource-Limited Sensor Motes: Solely Using Distance Measurements and Non-Unique Identifiers
11:20 – 11:40	Sebastian Feld, Martin Werner and Claudia Linnhof-Popien, Approximated Environment Features With Application to Trajectory Annotation
11:40 – 12:00	Ádám Bukovics, István Á. Harmati and László T. Kóczy, Modelling twofold uncertainty in the condition assessment of residential buildings using interval valued fuzzy signatures
10:00 – 12:00	ICES Session 3, Room 4A Chairs: Martin Trefzer, Lukas Sekanina
10:00 – 10:20	Jônata Tyska Carvalho and Stefano Nolfi, Affordance Generation Enables Behavioral Plasticity and Cognitive Offloading in Evolving Robots
10:20- 10:40	Kazi Shah Nawaz Ripon, Eirik Jakobsen, Christopher Tannum and Jean-Marc Montanier, Assessing the Effect of Self-Assembly Ports in Evolutionary Swarm Robotics
10:40 – 11:00	Roland Dobai, Jan Korenek and Lukas Sekanina, Adaptive Development of Hash Functions in FPGA-Based Network Routers
11:00 – 11:20	Alexander Erlank and Christopher Bridges, The Satellite Stem Cell Architecture
11:20 – 11:40	Matthew Dale, Julian Miller, Susan Stepney and Martin Trefzer, Reservoir Computing in Materio: An Evaluation of Configuration through Evolution
11:40 – 12:00	Dragana Laketic and Gunnart Tufte, A Hierarchical View on Evolution-In-Materio Computations
10:00 – 12:00	CIDM Session 6, Room 4B
10:00 – 12:00	CIDM Session 6, Room 4B Chairs: Lin Zhang, Friedhelm Schwenker
10:00 – 12:00 10:00 – 11:00	
	Chairs: Lin Zhang, Friedhelm Schwenker
	Chairs: Lin Zhang, Friedhelm Schwenker Keynote Speech
	Chairs: Lin Zhang, Friedhelm Schwenker Keynote Speech Adaptive Exploration of Information Spaces: Supporting Searching, Learning and Sensemaking, Andreas Nürnberger 11:00 – 11:20 Johannes Pflug and Stefanie Rinderle-Ma, Optimizing resource
10:00 – 11:00	Chairs: Lin Zhang, Friedhelm Schwenker Keynote Speech Adaptive Exploration of Information Spaces: Supporting Searching, Learning and Sensemaking, Andreas Nürnberger
10:00 – 11:00 11:00 – 11:20	 Chairs: Lin Zhang, Friedhelm Schwenker Keynote Speech Adaptive Exploration of Information Spaces: Supporting Searching, Learning and Sensemaking, Andreas Nürnberger 11:00 – 11:20 Johannes Pflug and Stefanie Rinderle-Ma, Optimizing resource management during business process execution: A case study
10:00 – 11:00 11:00 – 11:20	 Chairs: Lin Zhang, Friedhelm Schwenker Keynote Speech Adaptive Exploration of Information Spaces: Supporting Searching, Learning and Sensemaking, Andreas Nürnberger 11:00 – 11:20 Johannes Pflug and Stefanie Rinderle-Ma, Optimizing resource management during business process execution: A case study Dimitrios Koutsoukos, Georgios Alexandridis, Giorgos Siolas and Andreas Stafylopatis,
10:00 – 11:00 11:00 – 11:20 11:20 – 11:40	 Chairs: Lin Zhang, Friedhelm Schwenker Keynote Speech Adaptive Exploration of Information Spaces: Supporting Searching, Learning and Sensemaking, Andreas Nürnberger 11:00 – 11:20 Johannes Pflug and Stefanie Rinderle-Ma, Optimizing resource management during business process execution: A case study Dimitrios Koutsoukos, Georgios Alexandridis, Giorgos Siolas and Andreas Stafylopatis, A new approach to session identification by applying fuzzy c-means clustering on web logs
10:00 – 11:00 11:00 – 11:20 11:20 – 11:40	Keynote Speech Adaptive Exploration of Information Spaces: Supporting Searching, Learning and Sensemaking, Andreas Nürnberger 11:00 – 11:20 Johannes Pflug and Stefanie Rinderle-Ma, Optimizing resource management during business process execution: A case study Dimitrios Koutsoukos, Georgios Alexandridis, Giorgos Siolas and Andreas Stafylopatis, A new approach to session identification by applying fuzzy c-means clustering on web logs Fereshteh Jafariakinabad and Ken A. Hua, Maximal Sequence Mining Approach for Topic
10:00 - 11:00 11:00 - 11:20 11:20 - 11:40 11:40 - 12:00	Keynote Speech Adaptive Exploration of Information Spaces: Supporting Searching, Learning and Sensemaking, Andreas Nürnberger 11:00 – 11:20 Johannes Pflug and Stefanie Rinderle-Ma, Optimizing resource management during business process execution: A case study Dimitrios Koutsoukos, Georgios Alexandridis, Giorgos Siolas and Andreas Stafylopatis, A new approach to session identification by applying fuzzy c-means clustering on web logs Fereshteh Jafariakinabad and Ken A. Hua, Maximal Sequence Mining Approach for Topic Detection from Microblog Streams
10:00 - 11:00 11:00 - 11:20 11:20 - 11:40 11:40 - 12:00	Keynote Speech Adaptive Exploration of Information Spaces: Supporting Searching, Learning and Sensemaking, Andreas Nürnberger 11:00 – 11:20 Johannes Pflug and Stefanie Rinderle-Ma, Optimizing resource management during business process execution: A case study Dimitrios Koutsoukos, Georgios Alexandridis, Giorgos Siolas and Andreas Stafylopatis, A new approach to session identification by applying fuzzy c-means clustering on web logs Fereshteh Jafariakinabad and Ken A. Hua, Maximal Sequence Mining Approach for Topic Detection from Microblog Streams CIMSIVP, Room Olympia

10.40 11.00	Fatma Chahaan and Britisch Varma An Encamble of Doon Loorning Architectures for
10:40 – 11:00	Fatma Shaheen and Brijesh Verma, An Ensemble of Deep Learning Architectures for Automatic Feature Extraction
11:00 – 11:20	Nesrine Amor, Nidhal Bouaynaya, Petia Georgieva, Roman Shterenberg and Souad Chebbi,
	EEG Dynamic Source Localization using Constrained Particle Filtering
11:20 – 11:40	Dimitrios Kollias, Athanasios Tagaris and Andreas Stafylopatis, On Line Emotion Detection
	Using Retrainable Deep Neural Networks
11:40 – 12:00	Pingling Deng and Lei Zhang, Olfactory Target/Background Odor Detection via Self-
	expression Model
12:00 – 13:00	Lunch Break
12.00 – 13.00	Lunch Break
13:00 - 15:00	FOCI Session 4, Room 1A
	Chairs: Ojeda Aciego, Pietro Oliveto
13:00 – 14:00	Keynote Speech
11.00 11.00	Foundations of Computational Intelligence, Benjamin Doerr
14:00 – 14:20	Emmanuel Liossis, Bigram Constrained Linear Chain Conditional Random Fields
14:20 – 14:40	José M. Merigó, Nabil Alrajeh and Marta Peris-Ortiz, Induced Aggregation Operators in the
14.40 15.00	Ordered Weighted Average Sum
14:40 – 15:00	Inma P. Cabrera, Pablo Cordero and Manuel Ojeda-Aciego, On fuzzy relations, functional
	relations, and adjunctions
13:00 – 15:00	FASLIP Session 4, Room 1B
13:00 – 15:00	FASLIP Session 4, Room 1B Chairs: Hiroomi Hikawa, Muhammad Ahmad
	Chairs: Hiroomi Hikawa, Muhammad Ahmad
13:00 - 15:00 13:00 - 13:20	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in
13:00 – 13:20	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM
	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM Beatriz Gonzalez, Patricia Melin, Fevrier Valdez and German Prado-Arechiga, Interval
13:00 – 13:20	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM Beatriz Gonzalez, Patricia Melin, Fevrier Valdez and German Prado-Arechiga, Interval Type-2 Fuzzy Gravitational Search Algorithm for the Optimization of Modular Neural
13:00 – 13:20 13:20 – 13:40	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM Beatriz Gonzalez, Patricia Melin, Fevrier Valdez and German Prado-Arechiga, Interval Type-2 Fuzzy Gravitational Search Algorithm for the Optimization of Modular Neural Networks in Echocardiogram Recognition
13:00 - 13:20 13:20 - 13:40 13:40 - 14:00	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM Beatriz Gonzalez, Patricia Melin, Fevrier Valdez and German Prado-Arechiga, Interval Type-2 Fuzzy Gravitational Search Algorithm for the Optimization of Modular Neural Networks in Echocardiogram Recognition Muhammad Ahmad, Unsupervised Geometrical Feature Learning from Hyperspectral Data
13:00 – 13:20 13:20 – 13:40	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM Beatriz Gonzalez, Patricia Melin, Fevrier Valdez and German Prado-Arechiga, Interval Type-2 Fuzzy Gravitational Search Algorithm for the Optimization of Modular Neural Networks in Echocardiogram Recognition Muhammad Ahmad, Unsupervised Geometrical Feature Learning from Hyperspectral Data Faiza Bukenya, Joseph Ehling, Abdu Kalema, Imo Eyoh, John Robert and Li Bai, 3D
13:00 - 13:20 13:20 - 13:40 13:40 - 14:00	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM Beatriz Gonzalez, Patricia Melin, Fevrier Valdez and German Prado-Arechiga, Interval Type-2 Fuzzy Gravitational Search Algorithm for the Optimization of Modular Neural Networks in Echocardiogram Recognition Muhammad Ahmad, Unsupervised Geometrical Feature Learning from Hyperspectral Data Faiza Bukenya, Joseph Ehling, Abdu Kalema, Imo Eyoh, John Robert and Li Bai, 3D Segmentation of the Whole Heart Vasculature Using Otsu Thresholding and White Top-Hat
13:00 - 13:20 13:20 - 13:40 13:40 - 14:00 14:00 - 14:20	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM Beatriz Gonzalez, Patricia Melin, Fevrier Valdez and German Prado-Arechiga, Interval Type-2 Fuzzy Gravitational Search Algorithm for the Optimization of Modular Neural Networks in Echocardiogram Recognition Muhammad Ahmad, Unsupervised Geometrical Feature Learning from Hyperspectral Data Faiza Bukenya, Joseph Ehling, Abdu Kalema, Imo Eyoh, John Robert and Li Bai, 3D Segmentation of the Whole Heart Vasculature Using Otsu Thresholding and White Top-Hat Scale Space Hessian Based Vessel Enhancement Filter
13:00 - 13:20 13:20 - 13:40 13:40 - 14:00	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM Beatriz Gonzalez, Patricia Melin, Fevrier Valdez and German Prado-Arechiga, Interval Type-2 Fuzzy Gravitational Search Algorithm for the Optimization of Modular Neural Networks in Echocardiogram Recognition Muhammad Ahmad, Unsupervised Geometrical Feature Learning from Hyperspectral Data Faiza Bukenya, Joseph Ehling, Abdu Kalema, Imo Eyoh, John Robert and Li Bai, 3D Segmentation of the Whole Heart Vasculature Using Otsu Thresholding and White Top-Hat Scale Space Hessian Based Vessel Enhancement Filter Óscar García, Ricardo S. Alonso, Fabio Guevara, Juan F. de Paz, Gabriel Villarrubia, Juan M.
13:00 - 13:20 13:20 - 13:40 13:40 - 14:00 14:00 - 14:20	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM Beatriz Gonzalez, Patricia Melin, Fevrier Valdez and German Prado-Arechiga, Interval Type-2 Fuzzy Gravitational Search Algorithm for the Optimization of Modular Neural Networks in Echocardiogram Recognition Muhammad Ahmad, Unsupervised Geometrical Feature Learning from Hyperspectral Data Faiza Bukenya, Joseph Ehling, Abdu Kalema, Imo Eyoh, John Robert and Li Bai, 3D Segmentation of the Whole Heart Vasculature Using Otsu Thresholding and White Top-Hat Scale Space Hessian Based Vessel Enhancement Filter
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13:00 - 13:20 13:20 - 13:40 13:40 - 14:00 14:00 - 14:20	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM Beatriz Gonzalez, Patricia Melin, Fevrier Valdez and German Prado-Arechiga, Interval Type-2 Fuzzy Gravitational Search Algorithm for the Optimization of Modular Neural Networks in Echocardiogram Recognition Muhammad Ahmad, Unsupervised Geometrical Feature Learning from Hyperspectral Data Faiza Bukenya, Joseph Ehling, Abdu Kalema, Imo Eyoh, John Robert and Li Bai, 3D Segmentation of the Whole Heart Vasculature Using Otsu Thresholding and White Top-Hat Scale Space Hessian Based Vessel Enhancement Filter Óscar García, Ricardo S. Alonso, Fabio Guevara, Juan F. de Paz, Gabriel Villarrubia, Juan M. Corchado, Omid Abrishambaf and Zita Vale, Use of Context-aware Social Computing to Improve Energy Efficiency in Public Buildings
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13:00 - 13:20 13:20 - 13:40 13:40 - 14:00 14:00 - 14:20 14:20 - 14:40	Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM Beatriz Gonzalez, Patricia Melin, Fevrier Valdez and German Prado-Arechiga, Interval Type-2 Fuzzy Gravitational Search Algorithm for the Optimization of Modular Neural Networks in Echocardiogram Recognition Muhammad Ahmad, Unsupervised Geometrical Feature Learning from Hyperspectral Data Faiza Bukenya, Joseph Ehling, Abdu Kalema, Imo Eyoh, John Robert and Li Bai, 3D Segmentation of the Whole Heart Vasculature Using Otsu Thresholding and White Top-Hat Scale Space Hessian Based Vessel Enhancement Filter Óscar García, Ricardo S. Alonso, Fabio Guevara, Juan F. de Paz, Gabriel Villarrubia, Juan M. Corchado, Omid Abrishambaf and Zita Vale, Use of Context-aware Social Computing to Improve Energy Efficiency in Public Buildings CIHLI Session 4, Room 2A Chairs: Jacek Mańdziuk, Janusz Starzyk
13:00 - 13:20 13:20 - 13:40 13:40 - 14:00 14:00 - 14:20 14:20 - 14:40	Chairs: Hiroomi Hikawa, Muhammad Ahmad Masayoshi Ota, Yuto Kurosaki, Hidetaka Ito and Hiroomi Hikawa, Effect of Grouping in Vector Recognition System Based on SOM Beatriz Gonzalez, Patricia Melin, Fevrier Valdez and German Prado-Arechiga, Interval Type-2 Fuzzy Gravitational Search Algorithm for the Optimization of Modular Neural Networks in Echocardiogram Recognition Muhammad Ahmad, Unsupervised Geometrical Feature Learning from Hyperspectral Data Faiza Bukenya, Joseph Ehling, Abdu Kalema, Imo Eyoh, John Robert and Li Bai, 3D Segmentation of the Whole Heart Vasculature Using Otsu Thresholding and White Top-Hat Scale Space Hessian Based Vessel Enhancement Filter Óscar García, Ricardo S. Alonso, Fabio Guevara, Juan F. de Paz, Gabriel Villarrubia, Juan M. Corchado, Omid Abrishambaf and Zita Vale, Use of Context-aware Social Computing to Improve Energy Efficiency in Public Buildings CIHLI Session 4, Room 2A Chairs: Jacek Mańdziuk, Janusz Starzyk Shinji Kikuchi, Keizo Kato, Junya Saito, Seiji Okura, Kentaro Murase, Takaya Yamamoto and

13:20 – 13:40	Noritsugu Nakamura, Michimasa Inaba, Kenichi Takahashi, Fujio Toriumi, Hirotaka Osawa, Daisuke Katagami and Kousuke Shinoda, Constructing a Human-like agent for the
	Werewolf Game using a psychological model based multiple perspectives
13:40 - 14:00	Maciej Swiechowski, Janusz Kacprzyk and Slawomir Zadrozny, A novel game playing based
	approach to the modeling and support of consensus reaching in a group of agents
14:00 - 14:20	Larissa Müller and Arne Bernin, Physiological Data Analysis for an Emotional Provoking
	Exergame
14:20 - 14:40	Sherif Abdelfattah, Kathryn Merrick and Hussein Abbass, Eye Movements as Information
	Markers in EEG Data
14:40 - 15:00	Faiyaz Doctor, Charalampos Karyotis, Rahat Iqbal and Anne James, An Intelligent
	Framework for Emotion Aware E-Healthcare Support Systems
13:00 – 15:00	CIVTS Session 3, Special Session on " Computational Intelligence in Aerospace Sciences & Engineering"
	Room 2B
	Chairs: Annalisa Riccardi, Christie Maddock
13:00 – 13:20	Víctor Rodríguez Fernández, Antonio Gonzalez-Pardo and David Camacho, Finding
	Behavioral Patterns of UAV Operators using Multichannel Hidden Markov Models
13:20 - 13:40	Alessandro Mogavero, Configurational optimizer of Combined Cycle Propulsion using
	Genetic Programming.
13:40 - 14:00	Massimiliano Vasile and Lorenzo Ricciardi, A Direct Memetic Approach to the Solution of
	Multi-Objective Optimal Control Problems
14:00 – 14:20	Emmanuel Kieffer, Gregoire Danoy, Pascal Bouvry and Anass Nagih, Hybrid Mobility Model with Pheromones for UAV detection task
14:20 - 14:40	Cheryl Sze Yin Wong, T.K. Venugopalan and S. Suresh, A Multi-Objective Approach for 3D
	Airspace Sectorization: A Study on Singapore Regional Airspace
14:40 – 15:00	Rolando Armas, Hernan Aguirre, Fabio Daolio and Kiyoshi Tanaka, An effective EA for short term evolution with small population for traffic signal optimization
13:00 – 15:00	MCDM Session 4, Special Session on "Evolutionary Multi-Objective Optimization"
	Room 3A
	Chairs: Sanaz Mostaghim, Zhi-Hui Zhan
13:00 – 13:20	Wang Zi-Jia, Zhi-Hui Zhan and Jun Zhang, Parallel Multi-Strategy Evolutionary Algorithm
	Using Massage Passing Interface for Many-Objective Optimization
13:20 – 13:40	Miyako Sagawa, Hernán Aguirre, Fabio Daolio, Arnaud Liefooghe, Bilel Derbel, Sébastien
	Verel and Kiyoshi Tanaka, Learning Variable Importance to Guide Recombination
13:40 – 14:00	Toshiki Kondoh, Tomoaki Tatsukawa, Akira Oyama, Takeshi Watanabe and Kozo Fujii,
	Effects of Discrete Design-variable Precision on Real-Coded Genetic Algorithm
14:00 – 14:20	Asep Maulana, Valerio Gametto, Diego Garlaschelli, Iryna Yevesyeva and Michael
	Emmerich, Modularities Maximization in Multiplex Network Analysis Using Many-
	Objective Optimization
14:20 – 14:40	David J. D. Hampson, Sinem Sav and Herbert H. Tsang, Investigation of Multi-Objective
	Optimization Criteria for RNA Design

14:40 – 15:00	Christiaan Scheepers and Andries Engelbrecht, Misleading Pareto Optimal Front Diversity Metrics: Spacing and Distribution
13:00 – 15:00	RiiSS Session 2, Room 3B Chairs: Hiroyuki Masuta, Takenori Obo
13:00 – 13:20	Justinas Miseikis, Kyrre Glette, Ole Jakob Elle and Jim Torresen, Multi 3D Camera Mapping for Predictive and Reflexive Robot Manipulator Trajectory Estimation
13:20 – 13:40	Amirhossein Shantia, Francesco Bidoia, Lambert Schomaker and Marco Wiering, Dynamic Parameter Update for Robot Navigation Systems through Unsupervised Environmental Situational Analysis
13:40 – 14:00	Hiroyuki Masuta, Tatsuo Motoyoshi, Ken'lchi Koyanagi, Kei Sawai and Toru Oshima, Plane Extraction using Point Cloud Data for Service Robot
14:00 – 14:20	Wei Hong Chin, Chu-Kiong Loo and Naoki Masuyama, Multi-Channel Bayesian ART for Robot Fusion Perception
14:20 – 14:40	Dalin Zhou, Yinfeng Fang, Janos Botzheim, Naoyuki Kubota and Honghai Liu, Bacterial Memetic Algorithm based Feature Selection for Surface EMG based Hand Motion Recognition in Long-term Use
13:00 – 15:00	ICES Session 4, Room 4A Chairs: Andy Tyrrell, Michal Bidlo
13:00 – 14:00	Keynote Speech From Biophysical Models of Brain Repair to Highly Adaptive Hardware, <i>Liam McDaid</i>
14:00 – 14:20	Anju Johnson, David Halliday, Alan Millard, Andy Tyrrell, Jon Timmis, Junxiu Liu, Jim Harkin, Liam McDaid and Shvan Karim, An FPGA-based Hardware-Efficient Fault-Tolerant Astrocyte-Neuron Network
14:20 - 14:40	Sabre Didi and Geoff Nitschke, Hybridizing Novelty Search for Transfer Learning
14:40 – 15:00	George Martin, Jim Harkin, Liam McDaid, John Wade, Junxiu Liu and Fearghal Morgan, Astrocyte to Spiking Neuron Communication using Networks-on-Chip Ring Topology
13:00 – 15:00	CIDM Session 7, Room 4B Chairs: George Siolas, Hemant Singh
13:00 – 13:20	Mohammed Oussama Kherbouche, Nassim Laga and Pierre-Aymeric Masse, Towards a better assessment of event logs quality
13:20- 13:40	Cong Liu, Boudewijn van Dongen, Nour Assy and Wil M.P. van der Aalst, Component Behavior Discovery from Software Execution Data
13:40 – 14:00	Niek Tax, Natalia Sidorova, Wil van der Aalst and Reinder Haakma, Heuristic Approaches for Generating Local Process Models through Log Projections
14:00 – 14:20	Quang Huynh, Hemant Singh and Taparata Ray, Improving Symbolic Regression through a Semantics Driven Framework
14:20 – 14:40	Yanzhu Liu, Xiaojie Li, Adams Wai Kin Kong and Chi Keong Goh, Learning from small data: a pairwise approach for ordinal regression

14:40 – 15:00	Klaus Ulmschneider and Birte Glimm, Semantic Exploitation of Implicit Patent Information
13:00 – 15:00	CICS Session 3, Special Session on "Cyber Security Measurement and Management"
	Room Olympia
	Chairs: Frederick Sheldon, Ananth Abhishek Jillepalli
13:00 – 13:20	Dean Rogers, Orthus Authentication Protocol: Background Services
13:20 - 13:40	Alexander Krall, Michael Kuhl, Stephen Moskal and Shanchieh Yang, Assessing the
	Likelihood of Cyber Network Infiltration Using Rare-Event Simulation
13:40 - 14:00	Ananth Abhishek Jillepali, Daniel Conte de Leon, Stu Steiner and Frederick
	Sheldon, HERMES: A High-Level Policy Language for High-Granularity Enterprise-wide
	Secure Browser Configuration Management
14:00 - 14:20	Nahla Murtada Ahmed, Measuring Cloud Security Risk by Mean Failure Cost
14:20 - 14:40	Daniel Conte de Leon, Venkata Anirudh Bhandari, Ananth Abhishek Jillepalli and Frederick
	Sheldon, Using a Knowledge and Policy-based Security Orchestration Tool to Reduce the
	Risk of Browser Compromise
14:40 - 15:00	Alejandro Martín, Alejandro Calleja, Héctor Menéndez, Juan Tapiador and David Camacho,
	ADROIT: Android malware detection using meta-information
15:00 – 15:15	Coffee Break
15:15 – 16:00	Poster Session 2, Room Foyer of Olympia
	Chair: George Alexandridis, Ran Cheng

Pierfrancesco Cervellini, Angelo Menezes and Vijay Kumar Mago, Finding Trendsetters on Yelp

Stavros Nousias, John Lakoumentas, Aris Lalos, Dimitrios Kikidis, Konstantinos Moustakas, Konstantinos Votis and Dimitrios Tzovaras, Monitoring asthma medication adherence through content based audio classification

Feng Liu, Tao Zheng and Xia Hua, A Multi-Criteria Value Iteration Algorithm for POMDP problems

Weisheng Qian, Quan Liu, Zongzhang Zhang, Zhiyuan Pan and Shan Zhong, Policy Graph Pruning and Optimization in Monte Carlo Value Iteration for Continuous-State POMDPs

Yvonne Chueh, Angel Cataron and Razvan Andonie, Mortality Rate Modeling of Joint Lives and Survivor Insurance Contracts Tested by A Novel Unilateral Dependence Measure Edgar Galvan-Lopez and Ouassim Ait Elhara, Using Fitness Comparison Disagreements as a Metric for Promoting Diversity in Dynamic Optimisation Problems

Cheryl Sze Yin Wong and Suresh Sundaram, Preliminary study: Qualitative indicators in Multi-objective DIRECT framework

Mustafa Ayas and Ismail Altas, A Redundantly Actuated Ankle Rahabilitation Robot and Its Control Strategies

Emma Sloan, Marguerite Mcdaniel, William Nick, James Mayes and Albert Esterline, Structure and Evidence in Identity Cases

Muhammad Rizwan Tanweer, Abdullah Al-Dujaili and Suresh Sundaram, Multi-Objective Self Regulating Particle Swarm Optimization Algorithm for BMOBench Platform

Ryota Hanyu, Qiangfu Zhao and Yuya Kaneda, A New Protocol for On-line User Identification Based on Hand-writing Characters

Sriparna Saha, Rimita Lahiri, Amit Konar and Atulya K. Nagar, A Novel Approach To American Sign Language Recognition Using MAdaline Neural Network

Daniel L. Marino, Kasun Amarasinghe and Milos Manic, Simultaneous Generation-Classification Using LSTM

Ricardo Faia, Tiago Pinto and Zita Vale, GA Optimization Technique for Portfolio Optimization of Electricity Market Participation

Aria Jozi, Tiago Pinto, Isabel Praça, Francisco Silva, Brigida Teixeira and Zita Vale, Energy Consumption Forecasting based on Hybrid Neural Fuzzy Inference System

João Spinola, Pedro Faria and Zita Vale, Aggregation Validation Approach for the Management of Resources in a Smart Grid

16:00 – 18:00 CISDA Session 2, Room 1A

Chairs: Rafael Falcon, Vasileios Gkioulos

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16:00 – 16:20	Martin Ussath, Feng Cheng and Christoph Meinel, Automatic Multi-Step Signature Derivation from Taint Graphs
16:20 - 16:40	Vasileios Gkioulos, Stephen Wolthusen, Adam Flizikowski, Anna Stachowicz, Dariusz
	Nogalski, Kamil Gleba and Joanna Sliwa, Interoperability of Security and Quality of Service Policies Over Tactical SOA
16:40 – 17:00	Duc C. Le, A. Nur Zincir-Heywood and Malcolm I. Heywood, Data Analytics on Network
	Traffic Flows for Botnet Behaviour Detection
17:00 - 17:20	Frank Vanhoenshoven, Gonzalo Nápoles, Rafael Falcon, Koen Vanhoof and Mario Koeppen,
	Detecting Malicious URLs using Machine Learning Techniques
17:20 - 17:40	Nicole Nichols, Mark Greaves, William Smith, Ryan Lamothe, Gianluca Longoni and
	Jeremy Teuton, Identification of Program Signatures From Cloud Computing System
	Telemetry Data
17:40 - 18:00	Rafael Falcon, Benjamin Desjardins, Rami Abielmona and Emil Petriu. Context-Driven

Dynamic Risk Management for Maritime Domain Awareness

16:00 – 18:00	Hybrid Session 1 (SIS+CICA), Room 1B Chairs: Haibin Duan, Mustafa Ayas
16:00 – 16:20	Rui Pinto, Joana Gonçalves, Henrique Lopes Cardoso, Eugénio Oliveira, Gil Gonçalves and Bruno Carvalho, A Facility Layout Planner Tool Based on Genetic Algorithms
16:20 – 16:40	David C. Alvarez-Charris, Héctor F. Satizábal, Andrés Pérez-Uribe and Jesús A. López, EvoBoids: Co-Design of a Physical and Virtual Game using Artificial Evolution
16:40 – 17:00	Zhuqing Liu, Haibin Duan, Yijun Yang and Xiaoguang Hu, Pendulum-like Oscillation Controller for UAV Based on Lévy-flight Pigeon-inspired Optimization and LQR
17:00 – 17:20	Christina Klüver and Jürgen Klüver, A Regulatory Algorithm (RGA) for Optimizing Examination Timetabling
17:20 – 17:40	Haitham Baomar and Peter Bentley, An Intelligent Autopilot System that Learns Flight Emergency Procedures by Imitating Human Pilots
17:40 – 18:00	Mustafa Ayas and Seddik Djouadi, Undetectable Sensor and Actuator Attacks for Observer Based Controlled Cyber-Physical Systems
16:00 – 18:00	CIVTS Session 4, Special session on "Computational Intelligence in Aerospace Sciences & Engineering" Room 2A Chairs: Annalisa Riccardi, Massimiliano Vasile
16:00 – 16:20	Carlos Sánchez-Sánchez, Dario Izzo and Daniel Hennes, Learning the optimal state-feedback using deep networks
16:20 – 16:40	Joerg H. Mueller, Carlos Sánchez-Sánchez, Luís F. Simões and Dario Izzo, Optimal Orderings of k-subsets for Star Identification
16:40 – 17:00	Daniel Hennes, Dario Izzo and Damon Landau, Fast approximators for optimal low-thrust hops between main belt asteroids
17:00 – 17:20	Aram Vroom, Marilena Di Carlo, Juan Manuel Romero Martin and Massimiliano Vasile, Optimal Trajectory Planning for Multiple Asteroid Tour Mission by Means of an Incremental Bio-Inspired Tree Search Algorithm
17:20 – 17:40	Manon Raap, Martin Zsifkovits and Stefan Pickl, Trajectory Optimization under Kinematical Constraints for Moving Target Search
17:40 – 18:00	Christie Maddock and Edmondo Minisci, Spaceplane Trajectory Optimisation with Evolutionary-Based Initialisation
16:00 – 18:00	CICARE Session 3, Room 2B Chairs: Ilianna Kollia, Aki Härmä
16:00 – 16:20	Aki Härmä and Rim Helaoui, Probabilistic Scoring of Validated Insights for Personal Health Services
16:20 – 16:40	Mohammad Wedyan and Adel Al-Jumaily, Upper Limb Motor Coordination based Early Diagnosis in High Risk Subjects for Autism

16:40 – 17:00	Souhir Ben Souissi, Mourad Abed, Lahcen Elhiki, Philippe Fortemps and Marc Pirlot,
17:00 – 17:20	Categorizing the suitability of an alternative for a subject Francisco Javier Navarro Barron, Christian Wagner, Uwe Aickelin, Lynsey Green and Robert
17:20 – 17:40	Ashford, Measuring Agreement on Linguistic Expressions in Medical Treatment Scenarios Santosh Tirunagari, Simon Bull, Samaneh Kouchaki, Deborah Cooke and Norman Poh,
17.20 17.40	Visualisation of Survey Responses using Self-Organising Maps: A Case Study on Diabetes
17:40 – 18:00	Self-care Factors Control of Drakenowles and Vasilis Magalogikanomey. A Higher Order Schoduling Policy
17.40 – 18.00	Georgios Drakopoulos and Vasilis Megalooikonomou, A Higher Order Scheduling Policy With An Application To Biosignal Processing
16:00 – 18:00	Hybrid Session 2 (CIComms + CIPLS), Room 3B
	Chairs: Andre Voß, Adrian Lauf
16:00 – 16:20	Andre Voß, Gabriel Guckenbiehl, Holger Schütt and Tobias Buer, An online storage strategy with dynamic bay reservations for container terminals
16:20 – 16:40	Adrian Emanoil Serbencu and Viorel Minzu, Hybridized Ant Colony System for Tasks to
46.4047.00	Workstations Assignment
16:40 – 17:00	Christopher Lowrance, Adrian Lauf and Mehmed Kantardzic, A Fuzzy-Based Machine Learning Model for Robot Prediction of Link Quality
17:00 – 17:20	Andrew Gravett, Mathys Du Plessis and Timothy Gibbon, Hybridising Ant Colony
	Optimisation with a Upper Confidence Bound algorithm for Routing and Wavelength
	Assignment in an Optical Burst Switching network
17:20 – 17:40	Ha Bui Van, Christophe Craeye and Shambhu Nath Jha, Fast Optimization of Large Antenna Arrays on Dielectric Layers using Surrogate Macro-Basis-Function Representations
17:40 - 18:00	Arash Nasrollahishirazi, Meghan Steinhaus, Matthew Agostinelli and Manbir Sodhi, Fuzzy
	Cell Genetic Algorithm Approach for Flexible Flow-Line Scheduling Model
16:00 – 18:00	CISND, Room 4A
	Chairs: Rafael Falcon, Ruibin Bai
16:00 – 16:20	Jianjun Chen, Ruibin Bai, Haibo Dong, Rong Qu and Graham Kendall, A Dynamic Truck
46.20 46.40	Dispatching Problem in Marine Container Terminal
16:20 – 16:40	Dzmitry Makatun, Jerome Lauret, Hana Rudova and Michal Sumbera, Network Flows for Data Distribution and Computation
16:40 - 17:00	Ruibin Bai, John R Woodward and Nachiappan Subramanian, A New Fast Large
	Neighbourhood Search for Service Network Design with Asset Balance Constraints
17:00 – 17:20	Huw Lloyd and Martyn Amos, A Highly Parallelized and Vectorized Implementation of Max-Min Ant System on Intel Xeon Phi
17:20 – 17:40	Fawaz Alanazi, Adaptive Thompson Sampling for Hyper-heuristics
17:40 - 18:00	Ken Reid, Jingpeng Li, Alistair McCormick and Gilbert Owusu, Variable Neighbourhood
	Search: A Case Study for a Highly-Constrained Workforce Scheduling Problem
16:00 – 18:00	Hybrid Session 3 (CIEG+IntECS), Room 4B

Chairs: Xin Ye, Yanzhang Wang

16:00 – 16:20	Xuehua Wang, Chang Liu, Wenjun Zhou, Jiaqi Liu, Xuezhi Qin and Ning Wang, A Cellular
	Automata Model for Forest Fire Spreading Simulation
16:20 – 16:40	Huaiming Li, Fei Wang, Fangfang Song and Lianqing Wang, Crowd counting method on sparse scene
16:40 – 17:00	Jiangnan Qiu, Wenjin Gu, Qian Kong, Jilei Hu and Qiuyan Zhong, The Emergency Response Management Based on Bayesian Decision Network
17:00 - 17:20	Mimmo Parente, Carlo Blundo and Francesco Orciuoli, A Private Intelligent Shopping Mall
17:20 – 17:40	Georgios Milis, Demetrios Eliades, Christos Panayiotou and Marios Polycarpou, A Cognitive Agent Architecture for Feedback Control Scheme Design
17:40 – 18:00	Stavros Ntalampiras and Manuel Roveri, An Incremental Learning Mechanism for Human Activity Recognition
16:00 – 18:00	Hybrid Session 4 (SNCI+EALS), Room Olympia
	Chairs: Huajin Tang, Alexander Vandesompele
16:00 – 16:20	Ibrahim Ozturk and David Halliday, Mapping Spatio-temporally Encoded Patterns by
	Reward-Modulated STDP in Spiking Neurons
16:20 – 16:40	Garibaldi Pineda García, Patrick Camilleri, Qian Liu and Steve Furber, pyDVS: An Extensible, Real-time Dynamic Vision Sensor Emulator using Off-the-Shelf Hardware
16:40 – 17:00	Alexander Vandesompele, Florian Walter and Florian Röhrbein, Neuro-Evolution of Spiking Neural Networks on SpiNNaker Neuromorphic Hardware
17:00 – 17:20	Xu Xiaoliang, Jin Xin, Yan Rui and Cao Xun, A Hierarchical Visual Recognition Model with
	Precise-Spike-Driven Synaptic Plasticity
17:20 – 17:40	Achyut Mani Tripathi and Rashmi Dutta Baruah, Anomaly Detection in Data Streams
.=	Based on Graph Coloring Density Coefficients
17:40 – 18:00	Plamen Angelov and Xiaowei Gu, Local Modes-based Free-Shape Data Partitioning
18:00 – 18:15	Closing Session, Olympia