

Tuesday, June 26



9:00	Opening Ceremony	
	Session 1 (Session chair: prof. Jiří Pospíchal , approx. 15 min/paper, inc. questions)	
9:05÷09:50 45min	assoc. Prof. Roman Senkerik, Ph.D. (Tomas Bata University in Zlin, Czech Republic) <i>Small world hidden in swarm and evolutionary algorithms</i>	
09:50÷10:30	Evolutionary Computation (3x): ID18{054, 030, 055}	
	THREE-DIMENSIONAL GENETIC ALGORITHM FOR THE KIRKMAN'S SCHOOLGIRL PROBLEM (ID18054)	Jan Merta Tomáš Brandejský
	INCREASING POPULATION ($\mu + \lambda$)-CMA-ES WITH CENTRE AND ELITISM (IPOP!+) (ID18030)	Wineberg Mark Opawale Samuel
	PARTICLE SWARM OPTIMIZATION WITH DISTANCE BASED REPULSIVITY (ID18055)	Pluhacek Michal Zelinka Ivan Senkerik Roman Viktorin Adam Kadavy Tomas
10:35÷10:50	<i>Coffee Break</i>	
10:50÷11:50	Evolutionary Computation and Optimization (4x): ID18{031, 009, 022, 023}	
	THE EFFECTS OF CMA-ES STYLE SELECTION AND RESTART CRITERIA ON DE (ID18031)	Wineberg Mark Opawale Samuel
	INFLUENCE OF EXPERIMENT DESIGN IN GPA INVESTIGATING WITH RESPECT TO (P)RNGS (ID18009)	Brandejsky Tomas
	WIND POWER PERFORMANCE OPTIMIZATION CONSIDERING REDUNDANCY AND OPPORTUNISTIC MAINTENANCE (ID18022)	Sangroudi Hadi Abdollahzadeh
	POPULAR OPTIMISATION ALGORITHMS WITH DIVERSITY-BASED ADAPTIVE MECHANISM FOR POPULATION SIZE (ID18023)	Bujok Petr Poláková Radka
11:50÷12:30	<i>Lunch Break (not included)</i>	
12:30	Session 2 (Session chair: dr. Jan Roupec , approx. 15min/paper)	
12:30÷13:15 45min	dr. Michal Bidlo, Ph.D. (Brno University of Technology, Czech Republic) <i>Evolutionary design of complex cellular automata</i>	
13:15÷14:15	Nature Inspired Optimization (4x): ID18{056, 057, 042, 046}	
	REGARDING THE BEHAVIOR OF BISON RUNNERS WITHIN THE BISON ALGORITHM (ID18056)	Kazikova Anezka Pluhacek Michal Senkerik Roman
	TRANSITION GRAPH ANALYSIS OF SLIDING TILE PUZZLE HEURISTICS (ID18057)	Pospíchal Jiří Iveta Dirgová Luptáková
	COVER TIME OF A SQUARE LATTICE BY TWO COLORED RANDOM WALKERS (ID18042)	Yip Chun Yin Szeto Kwok Yip
	CLUSTERING ANALYSIS OF THE POPULATION IN DB_SHADE ALGORITHM (ID18046)	Viktorin Adam Senkerik Roman Pluhacek Michal Kadavy Tomas
14:15÷14:30	<i>Coffee Break</i>	

14:30÷15:45	Soft Computing (5x): ID18{014, 017, 021, 028, 001}	
	CAPACITY OF SPACES OF PROPERTIES FORMULAE, APPROXIMATIONS AND QUALITATIVE SHAPES (ID18014)	Bila Jiri
	PARAMETRIZATION OF GENERALIZED LAGUERRE FUNCTIONS FOR COMPUTATION OF THE INVERSE LAPLACE TRANSFORM OF FRACTIONAL ORDER TRANSFER FUNCTIONS (ID18017)	Karsky Vilem
	DESIGN AND DECOMPOSITION OF WASTE PROGNOSTIC MODEL WITH HIERARCHICAL STRUCTURES (ID18021)	Smejkalová Veronika Šomplák Radovan Nevrlý Vlastimír Pavlas Martin
	PROVIDING CUSTOMISED INFORMATION PANEL CONTENT BASED ON USER BEHAVIORAL PATTERNS (ID18028)	Pišařovic Ivo Procházka David Vybíral Dan Prochazkova Jana
	TUNING OF FUZZY SHARPENING FILTERS FOR BIOMEDICAL IMAGE ENHANCEMENT (ID18001)	Kukal Jaromir Sireis Abduljalil Krbcova Zuzana
15:45÷16:00	<i>Coffee Break</i>	
16:00÷17:15	Neural Networks (6x): ID18{006, 002, 045, 048, 049, 019}	
	STRESS MEASURES IN SOM LEARNING (ID18006)	Krbcová Zuzana Kukal Jaromir
	CONTEXT OUT CLASSIFIER (ID18002)	Hrebik Radek Kukal Jaromir
	ALGORITHM TUNING: EXPLORING THE REALTIONSHIP BETWEEN TRAINING SETS AND GENERALISATION (ID18045)	Corne David Mashal Alkhalifa
	EMOTION RECOGNITION USING AUTOENCODERS AND CONVOLUTIONAL NEURAL NETWORKS (ID18048)	Beltrán Prieto Luis Antonio Komínková Oplatková Zuzana
	RECURRENCE PLOT AND CONVOLUTIONAL NEURAL NETWORKS FOR TERRAIN CLASSIFICATION USING ENERGY CONSUMPTION OF MULTI-LEGGED ROBOTS (ID18049)	Basterrech Sebastian Rickard Hole Falck
	USABILITY EVALUATION OF RANDOMLY GENERATED FONTS FOR BUBBLE CAPTCHA (ID18019)	Bostik Ondrej Klecka Jan Horak Karel
17:15	Social - Welcome Reception	

Wednesday, June 27



8:30	Session 3 (Session chair: dr. Jiri Dvorak , approx. 15 min/paper)	
8:30÷9:15 45min	assoc. Prof. Ales Zamuda, Ph.D. (University of Maribor, Slovenia) <i>Competitive Differential evolution for evolutionary computation challenges</i>	
9:15÷10:15	Image processing (4x): ID18{010, 011, 012, 026}	
	THE RECONSTRUCTION OF THE OBJECT SURFACE USING CONFOCAL MICROSCOPE WITH HYPERCHROMATIC LENS (ID18010)	Starha Pavel Prochazkova Jana Martisek Dalibor
	THE ANALYSIS OF ROCK SURFACE ASPERITIES (ID18011)	Martisek Dalibor Prochazkova Jana
	HEURISTIC APPROACH TO MULTIVARIATE INVERSE PREDICTION PROBLEM USING DATA RECONCILIATION (ID18012)	Bartoň Adam Volná Eva Kotyrba Martin
	EXPLORING THE MAP EQUATION: COMMUNITY STRUCTURE DETECTION IN UNWEIGHTED UNDIRECTED NETWORKS (ID18026)	Rosecký Martin Šomplák Radovan Janošák František Bednář Josef
10:15÷10:30	<i>Coffee Break</i>	
10:30÷11:15 45min	dr. Bobby R. Bruce, Ph.D. (University College London, UK) <i>Genetic improvement</i>	
11:15÷12:15	Soft Computing (4x): ID18{027, 008, 015, 025}	
	ROBOT-BASED IMAGE ANALYSIS FOR EVALUATING REHABILITATION AFTER BRAIN SURGERY (ID18027)	Kohout Jan Crha Jan Trnková Kateřina Štícha Karel Mareš Jan Chovanec Martin
	NUMERICAL DATA CLUSTERING ONTOLOGY APPROACH (ID18008)	Grabusts Peter
	APPLICATION OF FUZZY LOGIC FOR MONITORING OF APPEARANCE OF HEAT WAVES IN LARGE TOWNS (ID18015)	Bíla Jiri Jura Jakub Novak Martin
	DISTRIBUTION ENDPOINT ESTIMATION ASSESSMENT FOR THE USE IN METAHEURISTIC OPTIMIZATION PROCEDURE (ID18025)	Holešovský Jan
12:15÷12:45	<i>Lunch Break (not included)</i>	
13:00	Session X (Chairs: Radek Matousek and Jakub Kudela , approx. 15 min/talk!)	
	THE WORKSHOP: rendezvous of participants 12:50 <i>the workshop program will be specify at the registration</i> (Dinner included at 18:15, projector and audio equipment are provided)	
22:30	returning from the workshop	

Thursday, June 28



9:30	Session 4 (Session chair: assoc. prof. Radek Matousek , approx. 15 min/paper)	
9:30÷10:15 45min	MSc. Jaroslav Jirkovsky – HUMUSOFT (MathWorks) <i>Deep Learning not only for Computer Vision with MATLAB</i>	
10:15÷11:15	Soft Computing (other subject) (4x): ID18{003, 007, 024, 058}	
	STOCHASTIC OPTIMIZATION OF RC ELEMENT WITH REGARD TO ULS AND SLS (ID18003)	Venclovský Jakub Štěpánek Petr Laníková Ivana
	STATISTICAL ANALYSIS OF THE WIDTH OF KERF AFFECTING THE MANUFACTURE OF MINIMAL INNER RADIUS (ID18007)	Hrabec Pavel Bednář Josef Zahradníček Radim Prokeš Tomáš Anna Machová
	ENHANCED ARCHIVE FOR SHADE (ID18024)	Viktorin Adam Roman Senkerik Michal Pluhacek Tomas Kadavy
	CHAOS WHATEVER AND DE VOL 252B (ID18058)	Senkerik Roman
11:15÷11:30	<i>Coffee Break</i>	
11:30÷12:30	Soft Computing (other subject) (4x): ID18{013, 044, 059, 038}	
	USING ARTIFICIAL INTELLIGENCE TO DETERMINE THE TYPE OF ROTARY MACHINE FAULT (ID18013)	Zuth Daniel Marada Tomáš
	IMPROVING WING GEOMETRY PART I.: MECHANICAL DESIGN (ID18044)	Muller Jan Zahradníček Radim
	SOLVENT OPTIMIZATION OF TRANSFERRED GRAPHENE WITH ROSIN LAYER BASED ON DOE (ID18059)	Hrabec Pavel Bednar Josef Prokes Tomas
	GRAMMATICAL EVOLUTION FOR DESIGN OF NANOSTRUCTURE MODELS (ID18038)	Pavel Osmera senior Daniel Zuth Anna Kucerova Pavel Osmera junior Monika Dosoudilová Jan Muller
12:30	Closing Ceremony	