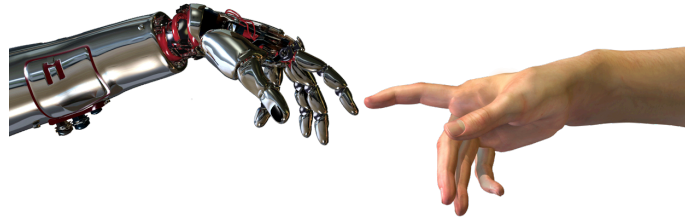


ICMMI 2017



International Conference on Man-Machine Interactions
Cracow, October 3-6, 2017

CONFERENCE PROGRAMME

TUESDAY 03.10.2017	
17:00	Registration
18:00	Welcome Reception

WEDNESDAY 04.10.2017	
8:30	Registration
9:00	Welcome session
9:10	Keynote lecture
	Advances In Hand-Eye Robot Interactions <i>Jan Paul Siebert</i>
10:10	Coffee break
10:30	SESSION A: Human – Computer Interfaces <i>chairperson: Jan Paul Siebert</i>
	Typing Braille Code in the Air with the Leap Motion Controller <i>Krzysztof Dobosz</i>
	OneHandBraille: An Alternative Virtual Keyboard for Blind People <i>Krzysztof Dobosz</i>
	Automation in Human-Machine Networks: How Increasing Machine Agency Affects Human Agency <i>Asbjørn Følstad</i>
	Pattern Lock Evaluation Framework for Mobile Devices: Human Perception of the Pattern Strength Measure <i>Zdzisław Sroczyński</i>
11:50	Coffee break
12:10	SESSION B: Bio-data Analysis and Mining <i>chairperson: Ewa Grabska</i>
	Functional Interpretation of Gene Sets: Semantic-Based Clustering of Gene Ontology Terms on the BioTest Platform <i>Aleksandra Gruca</i>
	Searching for Cancer Signatures Using Data Mining Techniques <i>Marcin Pacholczyk</i>
	Consensus approach for detection of somatic mutations <i>Katarzyna Sieradzka, Kinga Leszczorz</i>
	CCES: Cancer Clonal Evolution Simulation Program <i>Krzysztof Szymiczek</i>
13:30	Lunch
14:30	SESSION C: Image Analysis and Signal Processing <i>chairperson: Adam Czornik</i>
	Touchless Virtual Keyboard Controlled by Eye Blinking and EEG Signals <i>Krzysztof Dobosz</i>
	Modeling Quantized Coefficients with Generalized Gaussian Distribution with Exponent $1/m$, $m=2,3,\dots$ <i>Robert Krupinski</i>
	Tuning and Evolving Support Vector Machine Models <i>Jakub Nalepa</i>
	Linguistically Described Covariance Matrix Estimation <i>Tomasz Przybyła</i>
15:50	Coffee break

WEDNESDAY 04.10.2017

16:10	SESSION D: Decision Support and Expert Systems – part 1	<i>chairperson: Aleksandra Gruca</i>
	Identification of Most Affected Parameter for Design for Remanufacturing of Scrap Piston by Taguchi Desirability Function Analysis <i>Nidhi Agarwal</i>	
	DBpedia and YAGO as Knowledge Base for Natural Language Based Question Answering - The Evaluation <i>Tomasz Boiński</i>	
	Expressing the notion of a mathematical structure in the formal language of Mizar <i>Adam Grabowski</i>	
	Early Detection of Fire Hazard Using Fuzzy Inference System <i>Tomasz Grychowski</i>	
17:30	Conference photo	
17:45	Hanging posters	
18:00	Poster session with food, drinks and guided tour of the Lubicz brewery	
21:00	Poster session ends	

THURSDAY 05.10.2017

9:00	SESSION E: Decision Support and Expert Systems – part 2	<i>chairperson: Katarzyna Harężlak</i>
	Classification of clients on the basis of modifying case-based reasoning algorithms <i>Filip Mezera</i>	
	Automatic Algorithms for the Construction of Element Partition Trees for Isogeometric Finite Element Methods <i>Anna Paszyńska</i>	
	Exceptional Association Rule Set Mining from Oral Health Assessment Databases <i>Karou Shimada</i>	
	Application of Fuzzy Set Expert System for Testing Selected Specification Parameters of Voltage-Controlled Oscillator <i>Sebastian Temich</i>	
10:20	Coffee break	
10:40	SESSION F: Pattern Recogniton – part 1	<i>chairperson: Stanisław Kozielski</i>
	Eye Movement Traits in Differentiating Experts and Novices <i>Katarzyna Hareżlak</i>	
	A Comparison of Polish Wordnets in the View of Semantic Features Mapping <i>Tomasz Jastrzęb</i>	
	Association Rules in Data with Various Time Periods <i>Krzysztof Karpio</i>	
	The Accuracy of the Terrestrial Laser Scanners <i>Krzysztof Skabek</i>	
12:00	Coffee break	
12:20	Keynote lecture	
	Deep Learning with Spiking Random Neural Networks <i>Erol Gelenbe</i>	
13:20	Lunch	
14:30	SESSION G: Pattern Recogniton – part 2	<i>chairperson: Erol Gelenbe</i>
	Complexity Analysis of the Parallel Memetic Algorithm for Pickup and Delivery Problem with Time Windows <i>Jakub Nalepa</i>	
	Behind the Scenes of Deadline24: Solving the Modified Job Shop Scheduling Problem <i>Jakub Nalepa</i>	
	Reading Book by the Cover - Book Genre Detection Using Short Descriptions <i>Antoni Sobkowicz</i>	
	Design Classification Based on Matching Graph Kernels <i>Barbara Strug</i>	
15:50	Session ends	
16:00	Cracow sightseeing tour (approximate time 2 hours)	
20:00	Banquet	

FRIDAY 06.10.2017	
9:00	SESSION H: Algorithms and Optimization <i>chairperson: Tadeusz Czachórski</i>
	Improvements in DNA Reads Corrections <i>Maciej Długosz</i>
	Even Faster Sorting of (Not Only) Integers <i>Marek Kokot</i>
	New Adaptations for Evolutionary Algorithm Applied to Dynamic Difficulty Adjustment System for Serious Game <i>Ewa Lach</i>
	Partial Board Tree Search <i>Robert Perlinski</i>
10:20 Coffee break	
10:40	SESSION I: Computer Networks and Databases <i>chairperson: Patric S. P. Wang</i>
	Copula-based Module for Selectivity Estimation of Multidimensional Range Queries <i>Dariusz Rafał Augustyn</i>
	A Queueing Model of an Insurance Database Interactive System, Comparison of Modelling Methods <i>Tadeusz Czachórski</i>
	Inequalities for Workload Process in Queues With NBU/NWU input <i>Ksenia Kalinina</i>
	Frequent Sequence Mining in Web Log Data <i>Paweł Weichbroth</i>
12:00 Coffee break	
12:20 Keynote lecture	
	Intelligent Forensics, Big Data and Applications - Security, Safer Transportation and Greener World in Interactive Learning Environment <i>Patrick S.P. Wang</i>
13:20 Closing session. Best presentation and poster awards.	
13:30 Lunch	

Organiser:



Silesian University of Technology,
Gliwice, POLAND

Co-organiser:



Institute of Theoretical and Applied Informatics,
Polish Academy of Science
Gliwice, POLAND