



World Conference on

Robotics and Artificial Intelligence

July 26-27, 2018 Barcelona, Spain

Day 1 July 26,2018	
MainHall	
08:30-09:30	Registrations
09:30-09:35	Introduction
09:35-10:00	Opening Ceremony
	Keynote on
10:00-10:40	Title: MicroSelf-Reinforcement Learning, NLP and AI gamification in DYNAMIC real-time Erwin E. Sniedzins, Mount Knowledge Inc., Canada
10:40-11:20	Title: Intelligent Realization of Remotely-Operated Vehicle Model for Control Cheng Siong CHIN, Newcastle University, UK
11:20-11:35	COFFEE BREAK
11:35-12:15	Title: Controlling Chaos – Forced van der Pol Equation Timothy Sands, Stanford University, USA
Session 1	Genetics Algorithms and Reinforcement Learning Artificial Intelligence, Neuro control and Fuzzy control for Robotics
Session Chair	Nitin S. Choubey, SVKMs NMIMS, MPSTME, INDIA
Session Co-chair	Andrzej Więckowski, AGH University of Science and Technology, Poland
12:15-12:40	Title: Reinforcement Learning and Genetic Algorithm Nitin Choubey, SVKMs NMIMS, MPSTME, INDIA
12:40-13:05	Title: Automatic formwork with robot to monolithic reinforced concrete ceilings Andrzej Więckowski, AGH University of Science and Technology, Poland
	Group Photo
13:15-14:15	Lunch Break
14:15-14:40	Title: Image Super Resolution Reconstruction using Iterative Regularization method and Neural Networks Gunamani Jena, BVCEC JNTUK, India
14:40-15:05	Title: Computation mechanisms for realization of context-aware robots Tomislav Stipancic, University of Zagreb, Croatia
15:05-15:30	Title: Controlling Chaos – The benefits of Trajectory Planning on the Forced Van der Pol Equation Matthew A. Cooper, Air Force Research Laboratory, USA
15:30-15:55	Title: Robotics and the Development of Artificial General Intelligence: The Necessity of Sense Experience

	David Kremelberg, Icelandic Institute for Intelligent Machines, Iceland
Session 2	Tele-Robotics, Medical Robotics Micro and Nano-robotics
Session Chair	Sule Yildirim, Norwegian University of Science and Technology, Norway
Session Co-chair	Yasir Niaz Khan, The University of Lahore, Pakistan
15:55-16:20	Title: The deep learning approach in medical imaging Sule Yildirim, Norwegian University of Science and Technology, Norway
16:20-16:45	Title: Bio-hybrid microrobots integrating single sperm cells for innovative applications in diagnostics and therapy Veronika Magdanz, Technical University of Dresden, Germany.
16:45-17:00	COFFEE BREAK
17:00-17:25	Title: Using Robots to Feed the World Yasir Niaz Khan, The University of Lahore, Pakistan
17:25-17:50	Title: How can we make collaborative robots truly collaborative in manufacturing? Åsa Fast-Berglund, Chalmers University of Technology, Sweden
19:00-20:00	Cocktails
Day 2 July 27,2018	
	Main Hall
	Keynote on
10:00-10:40	Title: Embedded Intelligence for Service Robots Qinggang Meng, Loughborough University, UK
10:40-11:20	Title: New approaches to shop scheduling problems: metaheuristics and multi-agent systems Olfa BELKAHLA DRISS, University of Manouba, Tunisia
11:20-11:35	Coffee Break
Session 3	Artificial Neural Networks Robot Sensing and Mobile Sensor Networks Machine learning for Robotics Natural Language Processing New Approaches in Automation and Robotics Machine Vision for Robotics Human Computer Interaction and Visualization
Session Chair	Qinggang Meng, Loughborough University, UK
Session Co-chair	Steve Edwards, University of Zululand, South Africa
11:35-12:00	Title: The HeartMath Coherence Model – Implications and Challenges for Artificial Intelligence and Robotics Steve Edwards, University of Zululand, South Africa
12:00-12:25	Title: Fusion Sensors of In-line Inspection Robot for Defect Detection

	Le Dinh Van Khoa, University of Nottingham, Malaysia
12:25-12:50	Title: Using a vision System for Real-Time control of an Automated Adapting Robot System
	Herman Vermaak, Central University of Technology, South Africa
12:50-13:50	Lunch Break
Poster Presentations	
P-001	Title: Optimization of the robotized task for MIG welding of an enclosure side frame Radu Saulescu, Transilvania University of Brasov, Romania
P-002	Title: Optimal task placement for a robotized welding application Mircea Neagoe, Transilvania University of Brasov, Romania
P-003	Title: Mechatronics fixing device for a robotized welded planar frame Nadia Cretescu, Transilvania University of Brasov, Romania
P-004	Title: Emotion Recognition Based on Neural Network Using Biometric Sensors Yunkyu Lee, Korea University, Korea
P-005	Title: Artificial neural networks based predictive models of high speeds induced dynamic errors for real-time error compensation in coordinate measuring machines Abderrazak El Ouafi, University of Quebec, Canada