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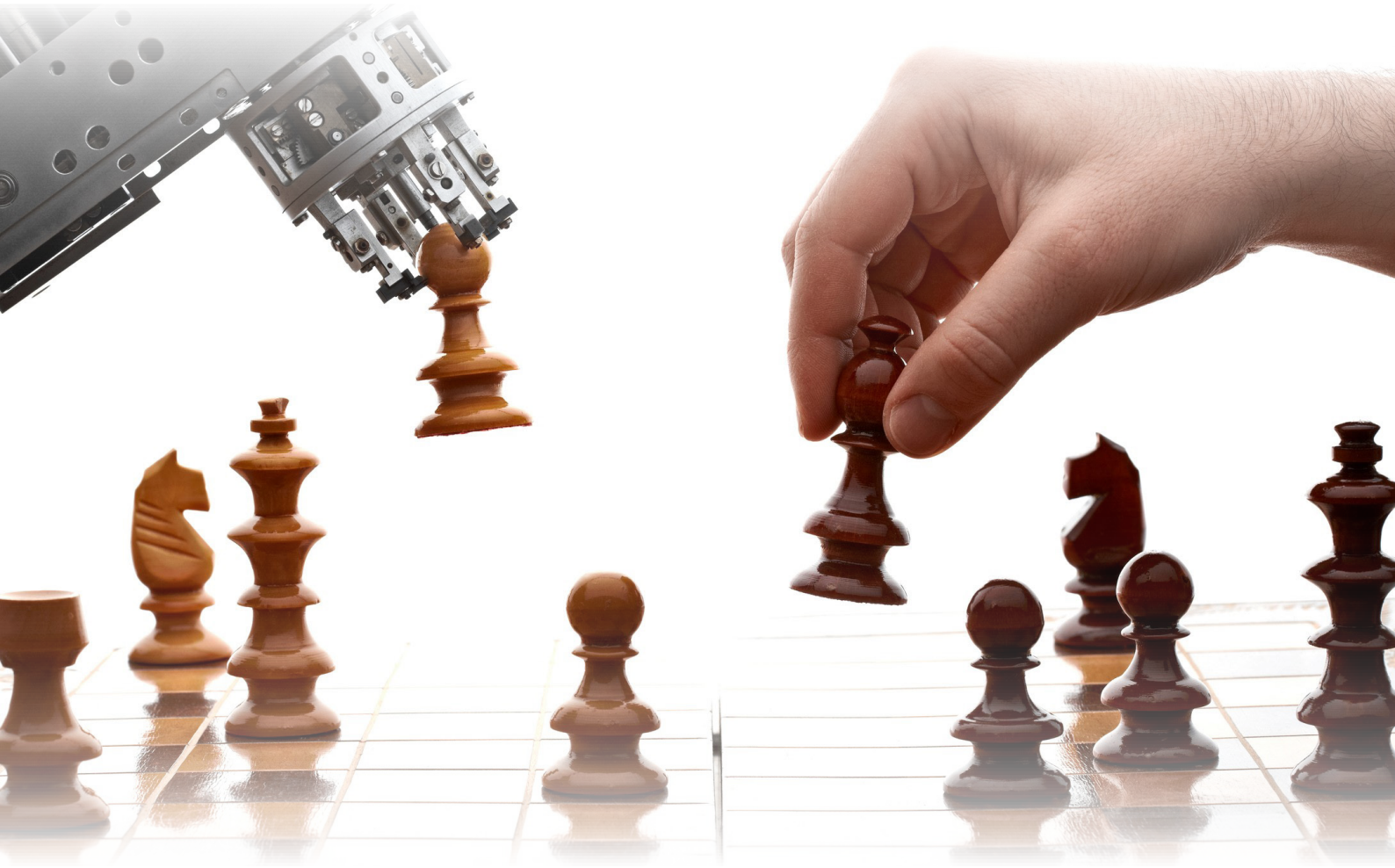
1005th Conference

Scientific Program

3rd International conference on

Artificial Intelligence & Robotics

June 28-29, 2017 San Diego, USA



Conference Series - America
One Commerce Center-1201, Orange St. #600, Wilmington, Zip 19899, Delaware, USA
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Conference Series - UK
Kemp House, 152 City Road, London EC1V 2NX, Toll Free: +1-800-216-6499

Day 1 | June 28, 2017

09:00-09:30 Registrations

North Park

conferenceseries.com 09:30-10:00 **Opening Ceremony**

Keynote Forum

Introduction

10:00-10:45 **Title: The InSight Mission: Instrument Deployment Robotic System**

Ashitey Trebi-Ollennu, NASA Jet Propulsion Laboratory, USA

Group Photo @ 10:45-10:50

Panel Discussion

Networking & Refreshment Break 10:50-11:10 @ Cortez Foyer

11:10-11:55 **Title: Cognitive Education**
Lin Zhou, IBM, USA

11:55-12:40 **Title: Automated Mechanical Control**
Timothy Sands, Naval Post Graduate School, USA

12:40-13:25 **Title: Automatic composition, optimisation and adaptation of multicomponent predictive systems**
Bogdan Gabrys, Bournemouth University, UK

Panel Discussion

Lunch Break 13:25-14:25 @ Kensington Veranda

Sessions:
New Approaches in Automation and Robotics | Remote and Telerobotics | Automation Control | Prototypical Applications | Humanoid Robots: New Developments | Computational creativity | Affective computing

Session Chair: Fuchiang (Rich) Tsui, University of Pittsburgh School of Medicine, USA
Session Co-chair: Joel M. Haight, University of Pittsburgh, USA

Session Introduction 14:25-14:30

14:30-15:00 **Title: Traction Control for the Curiosity Rover: A New Capability to Minimize Slip and Wheel Wear on Mars**
Olivier Toupet, NASA Jet Propulsion Laboratory, USA

15:00-15:30 **Title: Algorithms of Wireless Ad Hoc Sensors in Robotics**
Amir J. Majid, Ajman University, UAE

15:30-16:00 **Title: Robotic Systems for Inspecting Infrastructure**
Mehran Mehrandezh, University of Regina, Canada

16:00-16:30 **Title: Real time monitoring and automatic fault detection in robots in semiconductor fabrication industry**
Rita Chattopadhyay, Intel Corporation, USA

Panel Discussion

Networking & Refreshment Break 16:30-16:50 @ Cortez Foyer

16:50-17:20 **Title: AI as Future Digital Citizens: Overcoming the 'Hard Problem of Consciousness' with 'Emotional' Responses and Touch Sense Conditioning**
Shannon D. Bohle, Archivopedia LLC, USA

17:20-17:50 **Title: An Intelligent Operating Rooms Scheduling under Mass Causalty Events**
Wei Xiang, Ningbo University, China

Panel Discussion

Day 2 | June 29, 2017

North Park

Keynote Forum

10:00- 10:45 **Title: Extensions of Dynamic Programming for Decision Tree Study**
Mikhail Moshkov, King Abdullah University of Science and Technology (KAUST), Saudi Arabia

Panel Discussion

Networking and Refreshment Break 10:45-11:05@ Cortez Foyer

11:05-11:50 **Title: Interacting Intelligent Computers in a Complex Cyber-physical System**
Jose B. Cruz Jr, National Academy of Science and Technology, Philippines

11:50-12:35 **Title: Predictive Modeling and its Applications in Healthcare**
Fuchiang (Rich) Tsui, University of Pittsburgh School of Medicine, USA

12:35-13:20 **Title: MBGT-Mathematical Basis of Gyroscope Theory**
Ryspek Usubamatov, Kyrgyz Technical University, kyrgyzstan

Lunch Break 13:20-14:20 @ Kensington Veranda

Sessions:

Robot Localization and Map Building | Automation Control | Multi Robot Systems | New Approaches in Automation and Robotics | Robot Manipulators: Trends and Development | Machine Learning | Quest for Artificial Intelligence

Session Chair: Meenakshi Nadimpalli, Reliable Software Resources Inc, USA
Session Co-chair: Ryspek Usubamatov, Kyrgyz Technical University, kyrgyzstan

Session Introduction 14:20-14:25

14:25-14:50 **Title: The Design and Use of Adaptive Automated Control Systems; where and how does the human operator optimally fit? Adaptive Automation - State of the Literature and Research Quest**
Joel M. Haight, University of Pittsburgh, USA

14:50-15:15 **Title: Fusing wheel and visual odometry with inertial measurements: An Extended Kalman Filter for Unmanned Ground Vehicles in GPS-Denied Enviroments**
Olivier Toupet, NASA Jet Propulsion Laboratory, USA

15:15-15:40 **Title: LSSA-CNC- Challenges in Large Scale Subtractive-Additive CNC Machine**
Mehran Ektesabi, Swinburne University of Technology, Australia

15:40-16:05 **Title: Advanced Issues of Wind Turbine Modelling and Control**
Silvio Simani, University of Ferrara, Italy

Panel Discussion

Networking & Refreshment Break 16:05-16:25 @ Cortez Foyer

16:25-16:50 **Title: High-Level Synthesis through metaheuristics and LUTs optimization in FPGA devices**
Darian Reyes Fernandez de Bulnes, Tijuana Institute of Technology, Mexico

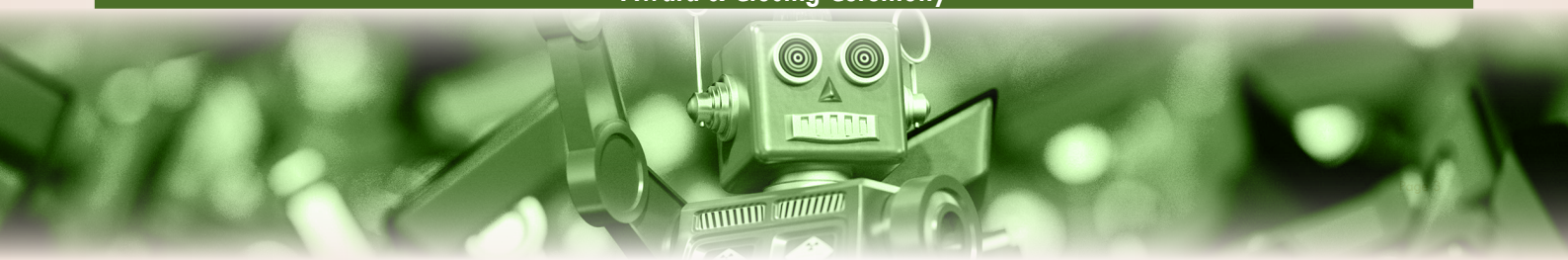
Video presentation

16:50-17:10 **Title: Diana**
Giancarlo Genta, Politechnico Di Torino, Italy

17:10-17:30 **Title: Cognitive Mapping of Narrative and of imagination to address: Security, Trust, Identity: oppurtunities and Challenges of Big data**
Fionn Murtagh, Goldsmiths University of London, UK

17:30-17:50 **Title: RESISTANCE Spot Welding in Automation and Robotics**
Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

17:50-18:10 **Title: Demonstrating the Need for Enterprise Data Management Capabilities to Support Artificial Intelligence Initiatives**
Anne Marie Smith, EWSolutions, USA

Panel Discussion

Award & Closing Ceremony