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World Congress on

Industrial Automation

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Day 1 July 20, 2015

08:30-09:30 Registrations

Tiburon

09:30-09:55 **Opening Ceremony**

Keynote Forum

09:55-10:00 **Introduction**

10:00-10:40 **Charlie Duncheon**
Grabit Inc., USA

Group Photo

Coffee break: 10:40-11:00 @ Sierra A

Track 1: Automation Technologies
Track 3: Control and Mechatronic Systems

Chair : Juan R Pimentel, Kettering University, USA
Co-Chair : Cameron Gieda, Sick Inc., USA

Session Introduction

11:00-11:30 **Context aware systems for unstructured environments based on WSNs**
Juan R Pimentel, Kettering University, USA

11:30-12:00 **Industrial automation technologies and the realization of factory 4.0**
Cameron Gieda, Sick Inc., USA

12:00-12:30 **BTSS – BUYUKSAHIN tactile sensing system**
Utku Buyuksahin, Sensobright Industries LLC, USA

Lunch Break 12:30-13:30 @ Sierra A

13:30-14:00 **Automating farms irrigation in Saudi Arabia**
Sami A Alhasan, The Excellency Center of Water Technologies, Saudi Arabia

14:00-14:45 **Intelligent Vacuum Technology in Automation**
Walter Dunkmann, J. Schmalz GmbH., Germany

14:45-15:15 **Reaching Ultimate Flexibility for Robot Grippers**
Charlie Duncheon, Grabit Inc., USA

15:15-15:45 **Static and dynamic obstacle avoidance behaviour for powered wheelchair control system**
Jaya Bhanu Rao Degala Ramalu, Newcastle University, UK

15:45-16:15 **Use of data analysis and TCAD simulations to understand the characteristics and reliability of high voltage MOS transistors**
Jone F Chen, National Cheng Kung University, Taiwan

Panel Discussion

Coffee Break 16:15-16:35 @ Sierra A

Day 2 July 21, 2015

Tiburon

Keynote Forum

08:55-09:00 **Introduction**

09:00-09:40 **Jeffrey Berkley**
Mimic Technologies Inc., USA

09:40-10:20 **Eduard Babulak**
Maharishi University of Management, USA

Coffee Break 10:20-10:40 @ Sierra A

Track 4: Robotics and Applications

Chair : Tariq H. Tashtoush, Texas A&M International University (TAMIU), USA

Co-Chair : Eric H.K. Fung, The Hong Kong Polytechnic University, China

Session Introduction

10:40-11:10 **Robotics and automation in space systems: Utilization of infrared laser to improve communication in space systems review**

Tariq H. Tashtoush, Texas A&M International University (TAMIU), USA

11:10-11:40 **3D Simulation of Human-like Walking and Stability Analysis for Bipedal Robot with Distributed Sole Force Sensors**

Eric H.K. Fung, The Hong Kong Polytechnic University, China

11:40-12:10 **Simulation in robotic surgery: The challenges and opportunities**

Jeffrey Berkley, Mimic Technologies Inc., USA

12:10-13:00 **Workshop on**
Selection Process of Industrial Robots
Tariq H. Tashtoush, Texas A&M International University (TAMIU), USA

Lunch Break 13:00-14:00 @ Sierra A

Track 5: Automation in manufacturing

Chair : Mehran Mehrandezh, University of Regina, Canada

Co-Chair : Andreas Jonsson, Volvo Car Group, Sweden

Session Introduction

14:00-14:30 **Design and development of automated robotic systems for inspecting pipes**

Mehran Mehrandezh, University of Regina, Canada

14:30-15:00 **Ready for reality; virtual commissioning at Volvo cars**

Andreas Jonsson, Volvo Car Group, Sweden

15:00-15:30 **Automation in the SME manufacturing learning factories: Case point Norway**

Rhythm Suren Wadhwa, Høgskolen Gjøvik University College, Norway

15:30-16:00 **Utilizing Factory Modeling and Simulation and the Current Challenges**

Tariq H. Tashtoush, Texas A&M International University (TAMIU), USA

Panel Discussion

Coffee Break 16:00-16:20 @ Sierra A

16:20-17:00 **Poster Presentations @ Sierra A**

Day 3 July 22, 2015

Tiburon

Track 6: Information technologies for automation systems

Chair: Dev Bhattacharya, Moog Crossbow, USA

Co-Chair: Juan R Pimentel, Kettering University, USA

Session Introduction

10:30-11:00 **Internet of Things (IoT) applications covering industrial domain**

Dev Bhattacharya, Moog Crossbow, USA

11:00-11:30 **IT and operations, how and where to get along**

Kevin Davenport, Cisco Systems, Inc., USA

11:30-12:00 **Lessons learned in fielding driverless (autonomous) vehicles in industrial applications like mining, material handling, and agriculture**

Mel Torrie, Autonomous Solutions, USA

Panel Discussion

Lunch Break 12:00-13:00 @ Sierra A

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OMICS Group Inc.
2360 Corporate Circle, Suite 400
Henderson, NV 89074-7722, USA
Ph: +1-888-843-8169
Fax: +1-650-618-1417
contact@omicsgroup.com

OMICS Publishing Group
5716 Corsa Ave., Suite 110, Westlake
Los Angeles, CA 91362-7354, USA
Ph: +1-650-268-9744
Fax: +1-650-618-1414
contact.americas@omicsonline.org

OMICS Group
SEZ Unit, Building No. 20, 9th Floor
APIIC Layout, HITEC City
Hyderabad-500081, Telangana, INDIA
Ph: 040-40131823, 040-47482222
contact.asiapacific@omicsonline.org

Toll free
USA & Canada: +1-800-216-6499
Australia: +1-800-651-097
Europe: 0805-080048