

Scientific Program

6th World Convention on

ROBOTS, AUTONOMOUS VEHICLES AND DEEP LEARNING

September 10-11, 2018 Singapore



Hosting Organization: Conference Series LLC LTD

47 Churchfield Road, London, W3 6AY

Ph: +1-702-508-5200, Fax: +1-650-618-1417, Toll free: +1-800-216-6499

Email: roboticscongress@engconferences.com, robotics@conferenceint.com

Keynote Forum

09:15-10:00 **Title: Why socially assistive robots?**
Juan Pedro Bandera Rubio, University of Malaga, Spain

10:00-10:45 **Title: Application of computer vision to endoscope and SEM images using neural network learning**
Yuji Iwahori, Chubu University, Japan

Group Photo

Networking & Refreshments Break: 10:45-11:00 @ Foyer

11:00-11:45 **Title: Applications of microscopic traffic data analysis in intelligent transport systems**
Adrain Fazekes, RWTH Aachen University, Germany

11:45-12:30 **Title: Natural language based intelligent robot to advance industrial automation and digital manufacturing**
Emdad Khan, Internet Speech, USA

Lunch Break: 12:30-13:30 @ Food Exchange, Level II

13:30-14:15 **Title: Predictions of short-term driving intention using recurrent neural network on sequential data**
Zhou XING, Borgward Automotive Group, USA

14:15-15:00 **Title: Distributed collision avoidance control for multi-unmanned aerial vehicles**
Sunan Huang, Temasek Laboratories-National University of Singapore, Singapore

Networking & Refreshments Break: 15:00-15:15 @ Foyer

Special Session

15:15-16:15 **Title: The significance of robot safety standards for the development of life support robots**
Jun Kurihara, The Canon Institute for Global Studies, Japan

Poster Presentations @ 16:15-17:00

SRC-001 **Title: Deep feature learning for unsupervised change detection in high-resolution multi-temporal and multi-source images**
Baoming Zhang, Zhengzhou University, China

SRC-002 **Title: Joint salient feature and convolutional neural network for ship detection in remote sensing images**
Zhihui Gong, Zhengzhou University, China

Panel Discussion

Keynote Forum

09:30-10:15 **Title: Digital companion with human-like emotion and ethics**
Soo Yeung Lee, Korea Advanced Institute for Science and Technology, Republic of Korea

10:15-11:00 **Title: Operator-based nonlinear control of micro hand and its application**
Mingcong Deng, Tokyo University of Agriculture and Technology, Japan

Networking & Refreshments Break: 11:00-11:15 @ Foyer

11:15-12:00 **Title: Design and application of force-sensing robotic bio-micromanipulation systems**
Qingsong Xu, University of Macau, China

12:00-12:45 **Title: Central emergency response management system**
Manchita Dumlao, The Philippine Women's University, Philippines

Lunch Break: 12:45-13:45 @ Food Exchange, Level II

Session:

Robotics | Artificial Intelligence | Medical Robotics | Industrial Robot Automation | Humanoid Robots | Human-Robot Interaction | Deep Learning

Session Introduction

Session Chair: Emdad Khan, Internet Speech, USA

13:45-14:15 **Title: Robotic hair transplantation**
Rattapon Thuangtong, Mahidol University, Thailand

14:15-14:45 **Title: Industry 4.0, robotics and automation in the production environment: Future trends and challenges in product design**

Martin Heide Jørgensen, The Maersk Mc-Kinney Moller Institute-University of Southern Denmark, Denmark

14:45-15:15 **Title: Promobot: Autonomous service robot for business**
Aleksei Yuzhakov, Promobot LLC, Russia

Workshop

15:15-16:00 **Title: Category-level 6D object pose recovery in depth images**
Caner Sahin, Imperial College London, UK

Networking & Refreshments Break: 16:00-16:15 @ Foyer

16:15-17:00 **Title: Companion Bot**
Suranjana Trivedy, GATE IIT Training Institute, India

Panel Discussion

Awards and Closing Ceremony

