Smart Robotics Congress 2018

6th World Convention on
Robots, Autonomous Vehicles and Deep Learning
September 10-11, Singapore

200+ Participation
12+ Keynote Lectures
6+ Interactive sessions
50+ Plenary Lectures
3+ Workshops
5+ Exhibitors
B2B Meetings

https://robotics.conferenceseries.com/
Dear Colleagues,

Conference Series llc LTD welcomes you to attend 6th World Convention on Robots, Autonomous Vehicles and Deep Learning held during September 10-11, 2018 Singapore, with the theme “A Review on Ethical and Social Implications of Robots”. This international meet (Smart Robotics Congress 2018) anticipates hundreds of delegates including keynote speakers, Oral presentations by renowned speakers and poster presentations by students besides delegates around the world. This conference perhaps a giant event that creates an ideal platform to share expertise addressing current advancements involved in Autonomous Vehicles and Deep Learning. It will be a wonderful opportunity for all the delegates as it provides an international networking opportunity to collaborate with the world class Autonomous Vehicles and Deep Learning.

Smart Robotics Congress 2018

• Opportunity to attend the presentations delivered by eminent scientists and business professionals from all over the world.
• Selected contributions will be published in following reputed high impact factor Journals.

→ Journal of Advances in Robotics and Automation
→ International Journal of Innovative Research in Computer and Communication Engineering
→ International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering

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Welcome Message

Borgward Automotive Group,
BAIC Group

Distinguished Colleagues, I am honored and delighted to invite you in the name of the Organizing Committee to participate in the 6th World Convention on Robots, Autonomous Vehicles and Deep Learning, which will be held in Singapore, on September 10-11, 2018. Robots and autonomous driving vehicles featuring real artificial intelligence have a wide range of applications and are of great importance influencing our commute, transportations, other aspects of lives. Self-driving cars face several unsolved challenges such as safety, production scale, as well as user acceptance. The research community is however, working very passionately to overcome those issues. The guiding idea of the World Convention on Robots, Autonomous Vehicles and Deep Learning is an encouraging cooperation and information exchange on different topics of the specialized theme “A Review on Ethical and Social Implications of Robots”, primarily between scientists and experts, but also with potential users of all kinds of global mechatronics and artificial intelligence data. The Congress would also be an exciting opportunity, especially for students, doctoral and postdoctoral fellows, to present their research studies and get acquainted with the latest achievements and comprehensions in different fields of robotics design, self-driving cars technology and artificial intelligence. Interesting and encouraging lectures will be presented by world-class academics and experts that cover a range of disciplines related to robotics: Robotics and Autonomous driving vehicles, Artificial Intelligence, Humanoid Robots, Neural Networks, and other Intelligent Autonomous Systems. On behalf of the Organizing Committee and in my own behalf I wish everyone a successful and prosperous participation at the 6th World Convention on Robots, Autonomous Vehicles and Deep Learning, 2018, and a pleasant stay in Singapore.

Dr. Zhou Xing
Directory of Artificial Intelligence for Autonomous Driving
Borgward Automotive Group

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Conference Sessions

All honourable authors, researchers, scientists and students are encouraged to contribute and help the shape of the conference through submissions of their posters & research abstracts. Also, high quality research contributions describing original and unpublished of conceptual, constructive, experimental or theoretical work in all areas of Robotics, Autonomous Vehicles and Deep Learning are warmly invited for presentations at the conference. The conference memorial contributions of abstracts and posters that address themes & future aspects of the conference related sessions.

→ Rehabilitation Robotics and assistive exoskeletons
→ Human-Robot Interaction
→ Space and underwater robots
→ Autonomous Robots and Autonomous Vehicles
→ Walking and Climbing Robots
→ Industrial Robot Automation
→ Medical Robotics
→ Humanoid Robots
→ Aerial Robotics and UAV
→ Computational Intelligence
→ Deep Learning
→ Computer Vision
→ Ambient Intelligence
→ Robotics and wireless Sensor Networks
→ Natural Language Processing
→ Intelligent Agents and Multi-agent Systems
→ Intelligent Transportation systems
→ Pattern Recognition
→ Internet of Things

Speaker Slots Available
NOTE: Program Schedule is subject to change with final allotment of the speaker slots

https://robotics.conferenceseries.com/
Organizing Committee Members

Amir Shapiro
Director of the Robotics Laboratory
Ben-Gurion University
Israel

Nathalie Nevejans
Lawyer
Ethics and Procedures Research Center
France

Md. Sadique Shaikh
Professor
Institute of Management & Sciences (IMS)
India

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Cyprus

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Poland
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Honda Research Institute Europe
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Head of CARR (Centre for Automation and Robotics Research)
Sheffield Hallam University
Sheffield Hallam University
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Taiwan
Taiwan

BOGDAN GABRYŚ
CHAIR IN COMPUTATIONAL INTELLIGENCE
Bournemouth University, UK
UK

CHINTAKINDI SANJAY
Principal & Dean
GITAM UNIVERSITY, India

Yingxu Wang
Professor, Fellow, ICIC and WIF; Senior Member, IEEE and ACM
University of Calgary
Canada

Zhou Xing
Director
Borgward, BAIC Group
USA

Adnène Arbi
Asst Prof
University of Carthage
Tunisia

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# Program at Glance

## September 10, 2018 Monday

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30-09:30</td>
<td>Registrations</td>
</tr>
<tr>
<td>09:30-10:30</td>
<td>Opening Ceremony and Keynote Forum</td>
</tr>
<tr>
<td></td>
<td><strong>Group Photo</strong></td>
</tr>
<tr>
<td>10:30-10:45</td>
<td>Network &amp; Refreshments Break*</td>
</tr>
<tr>
<td>10:45-12:00</td>
<td>Track 1: Rehabilitation Robotics and assistive exoskeletons</td>
</tr>
<tr>
<td>12:00-13:15</td>
<td>Track 2: Human-Robot Interaction</td>
</tr>
<tr>
<td>13:15-14:00</td>
<td>Lunch Break**</td>
</tr>
<tr>
<td>14:00-15:15</td>
<td>Track 3: Space and underwater robots</td>
</tr>
<tr>
<td>15:15-15:30</td>
<td>Network &amp; Refreshments Break*</td>
</tr>
<tr>
<td>15:30-16:45</td>
<td>Track 4: Autonomous Robots and Autonomous Vehicles</td>
</tr>
<tr>
<td>16:45-18:00</td>
<td>Track 5: Walking and Climbing Robots</td>
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<tr>
<td></td>
<td><strong>Day Concludes</strong></td>
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</tbody>
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## September 11, 2018 Tuesday

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30-09:30</td>
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<tr>
<td>09:30-10:30</td>
<td>Keynote Forum</td>
</tr>
<tr>
<td>10:30-10:45</td>
<td>Network &amp; Refreshments Break*</td>
</tr>
<tr>
<td>10:45-12:00</td>
<td>Track 6: Industrial Robot Automation</td>
</tr>
<tr>
<td>12:00-13:15</td>
<td>Track 7: Medical Robotics</td>
</tr>
<tr>
<td>13:15-14:00</td>
<td>Lunch Break**</td>
</tr>
<tr>
<td>14:00-15:15</td>
<td>Track 8: Humanoid Robots</td>
</tr>
<tr>
<td>15:15-15:30</td>
<td>Network &amp; Refreshments Break*</td>
</tr>
<tr>
<td>15:30-16:45</td>
<td>Track 9: Aerial Robotics and UAV, Computational Intelligence</td>
</tr>
<tr>
<td>16:45-18:00</td>
<td>Poster Presentations</td>
</tr>
<tr>
<td></td>
<td><strong>Day Concludes</strong></td>
</tr>
</tbody>
</table>
## Keynote Forum

**09:30-10:15**  
Title: Why socially assistive robots?  
Juan Pedro Bandera Rubio, University of Malaga, Spain

**10:15-11:00**  
Title: Predictions of short-term driving intention using recurrent neural network on sequential data  
Zhou Xing, Borgward, BAIC Group, USA

**11:15-11:45**  
Title: Distributed collision avoidance control for multi-unmanned aerial vehicles  
Sunan Huang, National University of Singapore, Singapore

### Sessions:

<table>
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<tr>
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<tbody>
<tr>
<td>11:45-12:15</td>
<td>Applications of microscopic traffic data analysis in intelligent transport systems</td>
<td>Adrian Fazekas, RWTH Aachen University</td>
</tr>
<tr>
<td>12:45-13:45</td>
<td>Category-level 6D Object Pose Recovery in Depth Images</td>
<td>Caner Sahin, Imperial College London, UK</td>
</tr>
<tr>
<td>13:45-14:15</td>
<td>Will Medical Ethics suffice the dilemmas in robotic developments?</td>
<td>Kadircan H Keskinbora, Bahcesehir U. School of Medicine, Turkey</td>
</tr>
</tbody>
</table>

### Speaker Slots Available

### Video Presentation Slots Available

## Keynote Forum

**09:30-10:15**  
Title: Application of Computer Vision to Endoscope and SEM Images Using Neural Network Learning  
Yuji Iwahori, Chubu University, Japan

**10:15-11:00**  
Title: Medical Robotics  
Darko Chudy, University of Zagreb, University Hospital Dubrava, Croatia

**11:45-12:15**  
Title: Operator-based nonlinear control of micro hand and it's application  
Mingcong Deng, Tokyo University of Agriculture and Technology, Japan

### Sessions:

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<td>12:15-12:45</td>
<td>Technology in Mexico: A case study</td>
<td>Salvador Reyna Rico, Founder of the Technological Innovation Club (CIT)</td>
</tr>
</tbody>
</table>

### Session Chair: TBA
<table>
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<tr>
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<tr>
<td>12:45-13:15</td>
<td><strong>Studies of upper limb amputation and use of 3D Printed Robotic hand to restore the functions after critical hand injuries</strong></td>
<td>Prashant Gade, Inali Foundation, India</td>
</tr>
<tr>
<td>14:15-14:45</td>
<td><strong>A Low Cost 3D-Printed Robot Joint Torque Sensor</strong></td>
<td>Indrazno Siradjuddin, Electrical Engineering Department, State Polytechnic of Malang, Indonesia</td>
</tr>
<tr>
<td>14:45-15:15</td>
<td><strong>Low Cost Robotic Tape Library Systems Using Open Source Software and Hardware</strong></td>
<td>Nkhumise, Square Kilometer Array (SKA), South Africa</td>
</tr>
<tr>
<td>15:15-15:45</td>
<td><strong>Improvement of speaker recognition tasks using deep learning and fusion features</strong></td>
<td>Denda Dewatama, Indonesia</td>
</tr>
<tr>
<td>16:00-16:30</td>
<td><strong>An affordable, functional and AI-inspired 3D-printed prosthetic hand for the world</strong></td>
<td>Rendi Pambudi, Electrical Engineering Department, State Polytechnic of Malang, Indonesia</td>
</tr>
</tbody>
</table>

**Smart Robotics Congress 2018**

September 10-11, 2018  Singapore
City Attractions
**Venue -**

**Holiday Inn Singapore Atrium**

317 Outram Road Singapore 169075

Singapore has evolved into one of Southeast Asia's most enjoyable cities. From its past as a colonial outpost, the capital has transformed into a soulful, diverse and rich city known for its fashion emporiums, dozens of parks, architectural legacy and absorbing cultural life. The food alone is enough to make Singapore a premier destination, but the city also draws visitors with its stylish nightlife, distinct neighborhoods, adventure activities, natural beauty and vibrant energy. The lively neighborhood provides a glimpse into the city's history with its faithful restoration of temples, shops and residences. Traditional businesses thrive, selling everything from incense to silk garments and herbal remedies. It is easy to lose yourself in the bustling alleyways, but that is part of the Chinatown experience.

Mail us to know more!

For Abstract Submission Guidelines | For Reserving your slot | Proposals | Registration Posters | Accommodations

No doubt you have lots of queries...

Why not get in touch..!

Drop us your query with details and we will call you right away

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Website: https://robotics.conferenceseries.com/

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