3rd International Conference and Exhibition on

AUTOMOBILE ENGINEERING

September 28-29, 2017  Berlin, Germany
Day 1  September 28, 2017

09:30-09:45  Registrations

Meeting Room @ v. Kleist

Keynote Forum

10:00-10:40  
Introduction  
Title: Hydration Status and Thermoregulatory Responses in Drivers During Competitive Racing  
Lara A Carlson, University of New England, USA

10:40-11:20  
Title: Probabilistic threat assessment with environment description and rule-based multi-traffic prediction for automated driving  
Koungsu Yi, Seoul National University, South Korea

Group Photo @ 11:20-11:25  
Networking and Refreshments Break 11:25-11:40 @ Foyer

Sessions: Automotive Engine | Automotive Vehicles and Design Technology | Automotive Safety | Emerging Trends in Automotive Engineering | Automotive Industry | Braking System | Vehicular Automation and Automatic Driving

Session Chair: Benoit Boulet, McGill University, Canada  
Session Co-chair: Koungsu Yi, Seoul National University, South Korea

Plenary Session

11:40-12:15  
Title: Automotive cyber security trends and the impact to forensic readiness  
Jana Dittmann, Otto von Guericke University of Magdeburg, Germany

12:15-12:50  
Title: Development of multispeed ratio drivetrains for electric vehicles  
Benoit Boulet, McGill University, Canada

12:50-13:25  
Title: Smart balancing systems: towards virtually ideal Li-ion battery packs  
Jorge Varela Barreras, University of Oxford, UK

13:25-14:00  
Title: Car as Power Plant: SOFC-PEMFC integrated high efficiency transportation systems  
P.V. Aravind, Delft University of Technology, The Netherlands

Lunch Break 14:00-14:40 @ Restaurant Theodor’s

14:40-15:15  
Title: Pixel-level image understanding for smart and autonomous vehicles  
Siniša Šegvić, University of Zagreb, Croatia

15:15-15:50  
Title: Application of aero-acoustic CFD methods to predict wind noise levels over the side glass of motor vehicles  
Hakki Can Koman, Ford Otosan, Turkey

15:50-16:25  
Title: Electro-mechanical direction sensor for vehicle guidance and control  
Khaled R Asfar, JUST University, Jordan

Networking and Refreshments Break 16:25-16:40 @ Foyer

16:40-17:15  
Title: The usage of Artificial Intelligence methods in solving vehicle routing problem for best transportation and distribution solutions  
Mazin Abed Mohammed, Universiti Teknikal Malaysia Melaka, Malaysia

Video Presentation

17:15-17:40  
Title: Effects of Various Parameters of Micro-Geometry on Performance Characteristics of Gears  
Sunil Pathak, Universiti Malaysia Pahang, Malaysia
### Keynote Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>10:00-10:40</td>
<td>Title: Transformation of pneumatic tire towards modular airless wheel system</td>
<td>Sivarao Subramonian, Universiti Teknikal Malaysia Melaka (UTeM), Malaysia</td>
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<tr>
<td>10:40-11:20</td>
<td>Title: Cyber investigations: digital forensics &amp; automobile electronics II</td>
<td>Gareth Davies, University of South Wales, UK</td>
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### Networking and Refreshments Break 11:20-11:40 @ Foyer

<table>
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<tr>
<th>Sessions:</th>
<th>Fuel Economy</th>
<th>Alternate Energy Sources</th>
<th>Automotive Electronics</th>
<th>Tire Science and Technology</th>
<th>Automotive Cyber Security</th>
<th>Automotive Ergonomics</th>
<th>Noise, Vibration and Harshness (NVH) in Automobiles</th>
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<tr>
<td>Chair</td>
<td>Gareth Davies, University of South Wales, UK</td>
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<td>Co-Chair</td>
<td>Sivarao Subramonian, Universiti Teknikal Malaysia Melaka (UTeM), Malaysia</td>
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### Plenary Session

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<td>11:40-12:15</td>
<td>Title: Next steps towards clean heavy-duty transport: new tools and methodologies are needed</td>
<td>Andreea Balau, TNO, Netherlands</td>
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<tr>
<td>12:15-12:50</td>
<td>Title: Applying blockchain technology to sharing economy models such as car sharing and mobility</td>
<td>Philipp Sandner, Frankfurt School Blockchain Center, Germany</td>
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<td>12:50-13:25</td>
<td>Title: Fuel-cell plug-in hybrids and the thermal hydrogen economy</td>
<td>Jared Moore, Meridian Energy Policy, USA</td>
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<tr>
<td>13:25-14:00</td>
<td>Title: Value engineering activity</td>
<td>Yasunori Ota, Value Engineering Trainer, Japan</td>
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### Lunch Break 14:00-14:40 @ Restaurant Theodor’s

### Poster Presentation 14:40-15:00 @ Foyer

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<td>15:00-15:35</td>
<td>Title: Dynamic stiffness improvement of an automotive body by using response surface method</td>
<td>Milad Abbasi, South Pars Gas Company, Iran</td>
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<tr>
<td>15:35-16:10</td>
<td>Title: An evaluation of aluminium-composite combined geometry tubular structures for automotive frontal crash safety applications</td>
<td>Praveen Kumar, SSN College of Engineering, India</td>
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### Panel Discussion

### Awards & Closing Ceremony

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**Bookmark your dates**

5th International Conference and Exhibition on

**Automobile Engineering**

June 21-22, 2018  Paris, France

E-mail: automobile@enggconferences.com; automobile@conferenceseries.net
Website: automobile.conferenceseries.com