Scientific Program

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

conference.com 09:45-10:00  Opening Ceremony

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

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
Panel Discussion
Day 2  September 29, 2017
Meeting Room @ v. Kleist

Keynote Forum

10:00-10:40
Title: Transformation of pneumatic tire towards modular airless wheel system
Sivarao Subramonian, Universiti Teknikal Malaysia Melaka (UTeM), Malaysia

10:40-11:20
Title: Cyber investigations: digital forensics & automobile electronics II
Gareth Davies, University of South Wales, UK

Networking and Refreshments Break 11:20-11:40 @ Foyer

Sessions:
- Fuel Economy
- Alternate Energy Sources
- Automotive Electronics
- Tire Science and Technology
- Automotive Cyber Security
- Automotive Ergonomics
- Noise, Vibration and Harshness (NVH) in Automobiles

Session Chair: Gareth Davies, University of South Wales, UK
Session Co-Chair: Sivarao Subramonian, Universiti Teknikal Malaysia Melaka (UTeM), Malaysia

Plenary Session

11:40-12:15
Title: Next steps towards clean heavy-duty transport: new tools and methodologies are needed
Andreea Balau, TNO, Netherlands

12:15-12:50
Title: Applying blockchain technology to sharing economy models such as car sharing and mobility
Philipp Sandner, Frankfurt School Blockchain Center, Germany

12:50-13:25
Title: Fuel-cell plug-in hybrids and the thermal hydrogen economy
Jared Moore, Meridian Energy Policy, USA

13:25-14:00
Title: Value engineering activity
Yasunori Ota, Value Engineering Trainer, Japan

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

Poster Presentation 14:40-15:00 @ Foyer

15:00-15:35
Title: Dynamic stiffness improvement of an automotive body by using response surface method
Milad Abbasi, South Pars Gas Company, Iran

15:35-16:10
Title: An evaluation of aluminium-composite combined geometry tubular structures for automotive frontal crash safety applications
Praveen Kumar, SSN College of Engineering, India

Networking and Refreshments Break 16:10-16:30 @ Foyer

Panel Discussion

Awards & Closing Ceremony

Bookmark your dates

5th International Conference and Exhibition on

Automobile Engineering
September 20-21, 2018  Rome, Italy

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Website: automobile.conferenceseries.com/europe/