Tentative Program

5th International Conference and Exhibition on

Automobile Engineering

Rome, Italy  September 20-21, 2018

For available speaker slots***

https://automobile.conferenceseries.com/europe/
# 5th International Conference and Exhibition on Automobile Engineering

**Rome, Italy September 20-21, 2018**

## Program at A Glance

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**NOTE:** Program Schedule is subject to change with final allotment of the speaker slots

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Conference Highlights

• Automotive Engine
• Automotive Vehicles and Design Technology
• Fuel Economy
• Alternate Energy Sources
• Automotive Electronics
• Vehicular Automation and Automatic Driving
• Tire Science and Technology
• Braking System
• Automotive Safety
• Automotive Cyber Security
• Automotive Testing
• Automotive Industry
• Noise, Vibration and Harshness (NVH) in Automobiles
• Automotive Ergonomics
• Automobile Pollution and Control Management
• Emerging Trends in Automotive Engineering
• Robotics and Automation

For detailed sessions, please visit: https://automobile.conferenceseries.com/europe/
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Register online: https://automobile.conferenceseries.com/europe/registration.php
Glimpses of Automobile Conference
Plan your Trip to Rome
3rd International Conference and Exhibition on

AUTOMOBILE ENGINEERING

September 28-29, 2017   Berlin, Germany
### Keynote Forum

**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

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### Networking and Refreshments Break

### 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

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### Plenary Session

**Title:** Automotive cyber security trends and the impact to forensic readiness  
**Jana Dittmann,** Otto von Guericke University of Magdeburg, Germany

**Title:** Development of multispeed ratio drivetrains for electric vehicles  
**Benoit Boulet,** McGill University, Canada

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

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

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### Lunch Break

**Title:** Pixel-level image understanding for smart and autonomous vehicles  
**Sinisa Segvic,** University of Zagreb, Croatia

**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

**Title:** Electro-mechanical direction sensor for vehicle guidance and control  
**Khaled R Asfar,** JUST University, Jordan

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### Networking and Refreshments Break

**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

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### Video Presentation

**Title:** Effects of Various Parameters of Micro-Geometry on Performance Characteristics of Gears  
**Sunil Pathak,** Universiti Malaysia Pahang, Malaysia

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### Panel Discussion

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### Keynote Forum

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

Title: Cyber investigations: digital forensics & automobile electronics II
Gareth Davies, University of South Wales, UK

Networking and Refreshments Break

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

Session Introduction

Plenary Session

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

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

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

Title: Value engineering activity
Yasunori Ota, Value Engineering Trainer, Japan

Lunch Break

Poster Presentation

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

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

Panel Discussion

Awards & Closing Ceremony

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
Day 1  December 01, 2016

Registrations

Melia Meeting 1+2

Opening Ceremony

Keynote Forum

Title: SPECTRA 2.3-Carbon nano fiber additives to improve battery performance for electric vehicle recharge infrastructure  
Francisco Trinidad, Exide Technologies, Spain

Networking and Refreshment Break

Title: Six Theta(r) Design – Early-Stage Design Methodology for Achieving Predictable Product Performance  
Janus Juul Rasmussen, CEO and Founder of Valcon Design A/S, Denmark

Title: Cyber Forensics & Automobile Electronics  
Gareth Dafydd Owen Davies, University of South Wales, UK

Panel Discussion

Group Photo @

Lunch Break @ Restaurant Aqua

Sessions: Automotive Design & Vehicle Electronics | Automotive Manufacturing | Automotive Safety | Electric and Hybrid Vehicles

Session Chair: Francisco Trinidad, Exide Technologies, Spain
Session Co-chair: Derya Haroglu, Erciyes University, Turkey

Title: Realistic energy management strategy on parallel hybrid electric vehicles  
Dohee Kim, Hyundai Motor Company, Korea
Title: Prioritizing sensor performance characteristics for automotive seat weight sensors in quality function deployment (QFD)  
Derya Haroglu, Erciyes University, Turkey
Title: Variable caster steering in vehicle dynamics  
Dai Vo Quoc, RMIT University, Australia
Title: The criteria and methodology for evaluation the quality of Magnetic Impelled Arc But Welding joints in automotive industry  
Marcin Korzeniowski, Wroclaw University of Science and Technology, Poland

Session Introduction

Networking and Refreshment Break 16:00-16:20 @ Foyer Business Center

Title: Evaluation of possibility of a family car conversion into electric basing on traction characteristics  
Pawel Adamski, Technical University of Lodz, Poland
Title: Benchmarking VE and drawing VEs  
Yasunori Ota, Value Engineering Trainer, Japan

Video Presentation

Title: Influence of operating factors on modal characteristics of a rolling truck tyre  
Subhash Rakheja, Concordia University, Canada

Panel Discussion

Day 2  December 02, 2016

Melia Meeting 1+2
Keynote Forum

Title: Hydroxy Gas (HHO) Addition to Fossil Fuels for Improved Performance and Lower Emissions
Kadir Aydin, Çukurova University, Turkey

Networking and Refreshment Break

Special Keynote Session & Workshop

Title: Layer Protection of Oil Additives, Lubrication-Friction-Wear within Surface Coatings of Piston Rings against Cylinder Liner in Internal Combustion Engines
Hakan Kaleli, Yildiz Technical University, Turkey

Lunch Break @ Restaurant Aqua

Panel Discussion

Sessions: IC Engine & Automotive Transmission | Fuel Economy | Alternate Energy Sources | Automation in Driving | Pollution by Automobiles | Automotive Industry
Session Chair: Kadir Aydin, Çukurova University, Turkey
Session Chair: Hakan Kaleli, Yildiz Technical University, Turkey

Title: Effect of cooling gallery on the piston temperature in a gasoline direction injection engine
Sangwook Han, Korea Automotive Technology Institute, Korea
Title: Structural transfer path analysis using normal frequency response functions
Akin Oktav, Bogazici University, Turkey
Title: Financial aspects of Czech automobile industry development
Jana Vychytilova, Tomas Bata University in Zlin, Czech Republic
Frank Amon, S. Mensah Auto Mechanic PTY LTD, South Africa

Networking and Refreshment Break @ Foyer Business Center

Poster Presentations @

Poser Judge: Janus Juul Rasmussen, CEO and Founder of Valcon Design A/S, Denmark
Poser Judge: Hakan Kaleli, Yildiz Technical University, Turkey

Panel Discussion

Award & Closing Ceremony

Bookmark your dates

3rd International Conference and Exhibition on Automobile Engineering

September 28-29, 2017   Berlin, Germany

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website: automobile.conferenceseries.com
Scientific Program

International Conference and Exhibition on

Automobile Engineering

September 01-02, 2015   Valencia, Spain
## Keynote Forum

**Title:** More Than Just Turning Left: Physiological Responses of Motorsports Drivers  
**Lara Carlson,** University of New England, USA

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**Introduction**

**Track 1:** Vehicle Design and In-Vehicle Electronics  
**Track 3:** Fuel Economy and Emissions  
**Track 4:** Manufacturing Technologies and Testing  
**Track 5:** Digital techniques in Automotive Manufacturing Process  
**Track 6:** Advanced Safety Technologies  
**Track 8:** Automotive Human Factors and Ergonomics

**Session Chairs:** Lara Carlson, University of New England, USA  
**Session Co-Chairs:** Kadir Aydin, Çukurova University, Turkey

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### Session Introduction

**Title:** Development of stamping technology in automotive and production speed calculations  
**Kadir Genc,** Valeo Automotive Systems Industry, Turkey

**Title:** Innovation for Future Mobility Concepts: An Automatic Damage Identification System  
**Sergei Gontscharov,** Universität Bremen, Germany

**Title:** Evaluation of the dissipated energy by the automobile dampers  
**Veronel George Jacota,** Universitatea Politehnica din Bucuresti, Romania

**Title:** Finite Element Analysis of Electric Bike Rims Coupled with Hub Motor  
**Erinç Uludamar,** Çukurova University, Turkey

**Title:** Evaluation of the causes of increasing the pressure drop of fixed bed reactor in RCD unit  
**Ali Shaeri,** NIOEC, Iran

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**Title:** Comparison of Immersive and Non-Immersive Driving Task Environments  
**Diana Reich,** Technische Universität Berlin, Germany

**Title:** Israeli and American traffic signs-similarities, differences and compliance with ergonomic principles of signs design  
**Tamar Ben-Bassat,** Sami Shamoon College of Engineering, Israel

**Title:** Crash behavior of telescopic crash box with aluminum foam  
**Ahmet Serdar Önal,** Beyçelik Gestamp, Turkey

**Title:** Accidents involving pedestrians walking along with/against traffic: An evaluation of crash characteristics and injuries  
**Chih-Wei Pai,** Taipei Medical University, Taiwan

**Title:** Measuring User Experience during a driving simulation with MINARGUS  
**Maik Auricht,** Technische Universität Berlin, Germany

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**Group Photo & Lunch Break @ Aqua Restaurant**

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**Young Researchers Forum**

**Title:** Dynamic Simulation of Automobile Crankshaft  
**Ihsan Uluocak,** Çukurova University, Turkey
Title: Numerical Study on Active Flow Control using Synthetic Jet Actuators over a NACA 4421 Airfoil
Xavier Guerrero-Pich, Polytechnical University of Catalonia, Spain

Title: Effects of SCR System on NOx Reduction in Heavy Duty Diesel Engine Fuelled with Diesel and Alcohol Blends
Ceyla Özgüür, Çukurova University, Turkey

Title: Evaluation of properties for Hybrid Al-SiC-Carbon Fiber Reinforced Metal Matrix Composite for Brake Pads
Abhik Rathod, VIT University, India

Title: GRNN and MFFNN Models for Energy Equivalent Speed Prediction and Fault Rate Determination of Involvements in Traffic Accidents: A case study in Turkey
Ali Can Yılmaz, Çukurova University, Turkey

Panel Discussion

Day 2           September 02, 2015

Hall Meliá Meeting 6

Keynote Forum

Introduction

Title: Improvement of the Heat and Sound Insulation of a Bus for Compliance with American Regulations
Kadir Aydin, Çukurova University, Turkey

Networking & Refreshment Break @ Foyer

Track 2: Engine and Transmission Technologies
Track 3: Fuel Economy and Emissions
Track 6: Advanced Safety Technologies
Track 9: Noise Vibration and Harshness (NVH) Engineering
Track 11: Hybrid Plug-in Hybrid and Electric Vehicles

Session chair: Kadir Aydin, Çukurova University, Turkey
Session chair: Lara Carlson, University of New England, USA

Session Introduction

Title: Thermal Management in Electric and Hybrid Vehicles
Gregor Gregorčič, qpunkt GmbH, Austria

Title: Development of a new powertrain concept based on the integration of electric generation, energy recovery and storage
Estefanía Hervás Blasco, Universitat Politècnica de València, Spain

Title: Simulation the Continuous Catalytic Reforming (Octanizer) Unit of Arak Refinery Gasoline Production Complex with PETROSIM Software
Ali Shaeri, NIOC, Iran

Title: Development of the KIIRA EV SMACK Supervisory Control Firmware
Pauline Korukundo, KIIRA Motors, Uganda

Title: Noise and separation reduction by the dimpled surfaces
Vladimir Voskoboinick, National Academy of Sciences of Ukraine, Ukraine

Lunch Break @ Aqua Restaurant

Young Researchers Forum

Title: Model of a new powertrain concept based on the integration of electric generation, energy recovery and storage
Estefanía Hervás Blasco, Universitat Politècnica de València, Spain

Title: A Comparative Study on Power Characteristics and Mode Control Algorithm for Plug-in Hybrid Electric Vehicles
Sunyoung Park, Sungkyunkwan University, Korea

Title: Vibration Analysis of a Diesel Engine Fuelled With Sunflower and Canola Biodiesels
Erinç Uludamar, Çukurova University, Turkey
Title: Development of a Mode Shift Control Algorithm for a Dual Mode Power Split Type Hybrid Electric Vehicle with On/Off Type Clutch and Brake
Sungwha Hong, Sungkyunkwan University, Korea

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Award Ceremony

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2nd International Conference and Exhibition on Automobile Engineering

July 11-12, 2016  Köln, Germany

Website: [http://automobile.conferenceseries.com/](http://automobile.conferenceseries.com/)