Scientific Program

International Conference and Exhibition on
Automobile Engineering
September 01-02, 2015  Valencia, Spain
### Scientific Program

**Day 1**  
**September 01, 2015**

#### 08:30–09:40  Registrations

**Hall Meliá Meeting 6**

#### 09:40–10:10  Opening Ceremony

#### Keynote Forum

**10:10-10:15**  
**Introduction**

10:15-10:50  
**More Than Just Turning Left: Physiological Responses of Motorsports Drivers**  
**Lara Carlson,** University of New England, USA

| Session Introduction | 11:10-11:30  
**Development of stamping technology in automotive and production speed calculations**  
**Kadir Genc,** Valeo Automotive Systems Industry, Turkey |
|---|---|
| 11:30-11:50  
**Innovation for Future Mobility Concepts: An Automatic Damage Identification System**  
**Sergei Gontscharov,** Universität Bremen, Germany |
| 11:50-12:10  
**Evaluation of the dissipated energy by the automobile dampers**  
**Veronel George Jacota,** Universitatea Politehnica din Bucuresti, Romania |
| 12:10-12:30  
**Finite Element Analysis of Electric Bike Rims Coupled with Hub Motor**  
**Erinç Uludamar,** Çukurova University, Turkey |
| 12:30-12:50  
**Evaluation of the causes of increasing the pressure drop of fixed bed reactor in RCD unit**  
**Ali Shaeri,** NIOEC, Iran |

#### Networking & Refreshment Break 10:50-11:10 @ Foyer

#### 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

#### 13:50-14:10  
**Comparison of Immersive and Non-Immersive Driving Task Environments**  
**Diana Reich,** Technische Universität Berlin, Germany

#### 14:10-14:30  
**Israeli and American traffic signs-similarities, differences and compliance with ergonomic principles of signs design**  
**Tamar Ben-Bassat,** Sami Shamoon College of Engineering, Israel

#### 14:30-14:50  
**Crash behavior of telescopic crash box with aluminum foam**  
**Ahmet Serdar Önal,** Beyçelik Gestamp, Turkey

#### 14:50-15:10  
**Accidents involving pedestrians walking along with/against traffic: An evaluation of crash characteristics and injuries**  
**Chih-Wei Pai,** Taipei Medical University, Taiwan

#### Group Photo & Lunch Break 12:50-13:50 @ Aqua Restaurant
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institution/Location</th>
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<tbody>
<tr>
<td>15:10-15:30</td>
<td>Measuring User Experience during a driving simulation with MINARGUS</td>
<td>Maik Auricht, Technische Universität Berlin, Germany</td>
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<td>Networking &amp; Refreshment Break 15:30-15:50 @ Foyer</td>
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<td>15:50-16:10</td>
<td>Dynamic Simulation of Automobile Crankshaft</td>
<td>Ihsan Uluocak, Çukurova University, Turkey</td>
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<td>16:10-16:30</td>
<td>Numerical Study on Active Flow Control using Synthetic Jet Actuators over a NACA 4421 Airfoil</td>
<td>Xavier Guerrero-Pich, Polytechnical University of Catalonia, Spain</td>
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<tr>
<td>16:30-16:50</td>
<td>Effects of SCR System on NOx Reduction in Heavy Duty Diesel Engine Fuelled with Diesel and Alcohol Blends</td>
<td>Ceyla Ö zgür, Çukurova University, Turkey</td>
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<td>16:50-17:10</td>
<td>Evaluation of properties for Hybrid Al-SiC-Carbon Fiber Reinforced Metal Matrix Composite for Brake Pads</td>
<td>Abhik Rathod, VIT University, India</td>
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<td>17:10-17:30</td>
<td>GRNN and MFFNN Models for Energy Equivalent Speed Prediction and Fault Rate Determination of involvements in Traffic Accidents: A case study in Turkey</td>
<td>Ali Can Yılmaz, Çukurova University, Turkey</td>
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<td>Panel Discussion</td>
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Day 2  September 02, 2015

Hall Meliá Meeting 6

Keynote Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:00-10:15</td>
<td>Introduction</td>
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<tr>
<td>10:15-10:50</td>
<td>Improvement of the Heat and Sound Insulation of a Bus for Compliance with American Regulations</td>
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<td>Kadir Aydin, Çukurova University, Turkey</td>
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<td>Networking &amp; Refreshment Break 10:50-11:10 @ Foyer</td>
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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

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<tr>
<td>11:10-11:30</td>
<td>Thermal Management in Electric and Hybrid Vehicles</td>
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<td>Gregor Gregorčič, apunkt GmbH, Austria</td>
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<td>11:30-11:50</td>
<td>Development of a new powertrain concept based on the integration of electric generation, energy recovery and storage</td>
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<td>Estefanía Hervás Blasco, Universitat Politècnica de València, Spain</td>
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<td>11:50-12:10</td>
<td>Simulation the Continuous Catalytic Reforming (Octanizer) Unit of Arak Refinery Gasoline Production Complex with PETROSIM Software</td>
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<td>Ali Shaeri, NIOEC, Iran</td>
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12:10-12:30  Development of the KIIRA EV SMACK Supervisory Control Firmware
Pauline Korukundo, KIIRA Motors, Uganda

12:30-12:50  Noise and separation reduction by the dimpled surfaces
Vladimir Voskoboinick, National Academy of Sciences of Ukraine, Ukraine

Lunch Break 12:50-13:50 @ Aqua Restaurant

Young Researchers Forum

13:50-14:10  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

14:10-14:30  A Comparative Study on Power Characteristics and Mode Control Algorithm for Plug-in Hybrid Electric Vehicles
Sunyoung Park, Sungkyunkwan University, Korea

14:30-14:50  Vibration Analysis of a Diesel Engine Fuelled With Sunflower and Canola Biodiesels
Erinç Uludamar, Çukurova University, Turkey

14:50-15:10  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

Panel Discussion

Networking & Refreshment Break 15:30-15:50 @ Foyer

15:50-16:50  Poster Session @ Foyer

AUT-01  Fail-Safe Control for One Brake-by-Wire Actuator Failure Case using Brake Safety Evaluation Index and Response Surface Method
Kwangki Jeon, KATECH, Korea

AUT-02  The Development of Dynamic Model and Power Assist Control Logic of Hybrid EPS for Heavy-Duty Vehicles
Ji in Park, KATECH, Korea

Award Ceremony

Website: http://automobile.conferenceseries.com/

2nd International Conference and Exhibition on Automobile Engineering
July 11-12, 2016  Köln, Germany