AGENDA
TECIS 2016

IFAC International Conference on International Stability, Technology and Culture (TECIS)

University for Business and Technology
Vienna University of Technology
Kosova Asociation for Control, Automation and Systems Eng
## Agenda TECIS, October 26-28 2016

### Tuesday, October 25, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>14:00-18:00</td>
<td>Registration</td>
<td>Hotel Bleart lobby</td>
</tr>
</tbody>
</table>

### Wednesday, October 26, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:45</td>
<td>We1A 9:00-9:45 Opening</td>
<td>Room A</td>
</tr>
<tr>
<td></td>
<td>Chair: Hajrizi, Edmond University for Business and Technology</td>
<td></td>
</tr>
<tr>
<td>10:00-10:45</td>
<td>WeP1A 10:00-10:45, Paper WeP1A.1  Smart Solution for Smart Factory  Hajrizi, Edmond University for Business and Technology</td>
<td>Room A</td>
</tr>
<tr>
<td>12:15-12:35</td>
<td>12:15-12:35, Paper WeA1A.3 Control of a Cost Oriented Humanoid Robot (I)  d’Apolito, Francesco Mehmeti, Xhemajl Kopacek, Peter</td>
<td>Room A</td>
</tr>
<tr>
<td>12:35-12:55</td>
<td>12:35-12:55, Paper WeA1A.4 Robots for Education (Edutainment) (I)  Linert, Julia Kopacek, Peter</td>
<td>Room A</td>
</tr>
<tr>
<td>13:00-13:30</td>
<td>WeP2A 13:00-13:30, Plenary 2  Chair: Jesse, Norbert QuinScape GmbH</td>
<td>Room A</td>
</tr>
<tr>
<td>14:15-15:00</td>
<td>14:15-15:00, Paper WeP2A.1 Development Trends in Robotics  Kopacek, Peter  Vienna Univ. of Tech</td>
<td>Room A</td>
</tr>
</tbody>
</table>

**Wednesday, October 26, 2016 Schedule:**

- **9:00-9:45** Coffee Break
- **10:00-10:45** Paper WeP1A.1 Smart Solution for Smart Factory
- **10:45-11:15** Coffee Break
- **11:15-11:35** Paper WeA1A.1 Novel Trends in the Development of Autonomation and Robotics in Metrology for Production in the Future (I)
- **11:55-12:15** Paper WeA1A.3 Control of a Cost Oriented Humanoid Robot (I)
- **12:15-12:35** Paper WeA1A.4 Robots for Education (Edutainment) (I)
- **12:35-12:55** Paper WeA1A.5 Investigation of Effects (Welding Sequence, Fixturing, Welding Points) on Distortions after Spot Welding for Determining Individual and Cumulative Tolerances (I)
- **13:35-14:10** Lunch Break
### WeA2A
**Cost Effective Operation and Maintenance**

**Chair:** Stapleton, Larry  
**Co-Chair:** Shala, Muzafer

**16:00 - 16:30 Coffee Break**

**15:00-15:20, Paper WeA2A.1**

**Efficiencies through the Automatic Control of Age-Profiled Manufacturing Machines: A Case Study of Cost-Savings in an Irish Production Facility**

Stapleton, Larry  
Norton, Stephen J  
Doyle-Kent, Mary  
Curtis, Helen  
Darcy, Raymond

**15:20-15:40, Paper WeA2A.2**

**Cost-Oriented Innovation Methods and Education in Developing Countries: Re-Engineering Industrial Production Systems**

Shala, Muzafer  
Hoxha, Valmir  
Bula, Ines  
Hajrizi, Edmond  
Stapleton, Larry

**15:40-16:00, Paper WeA2A.3**

**Analytical Calculation of Vehicles Noise in the Road Traffic and Graphical Presentation**

Kyçyku, Azem  
Lajqi, Shpetim  
Hoxha, Gezim

### WeA2B
**Sustainable Design and Control**

**Chair:** Dugolli, Mimoza  
**Co-Chair:** ATAN, Ozkan

**15:00-15:20, Paper WeA2B.1**

**Photovoltaic and Micro-Hydroelectric Proposed Plant for Stand Alone Electric Generation in a Sixty-Floor Skyscraper (P60)**

Bylykbashi, Kliton  
Capata, Roberto  
Cirillo, Raffaello

**15:20-15:40, Paper WeA2B.2**

**Safety from Asbestos Exposure in Kosovo**

Dugolli, Mimoza

**15:40-16:00, Paper WeA2B.3**

**Synchronisation and Circuit Model of Fractional-Order Chaotic Systems with Time-Delay**

ATAN, Ozkan

**16:00 - 16:30 Coffee Break**

### WeA3A
**Mechatronic Systems and Robotics**

**Chair:** Ibrahimov, Bahadur  
**Co-Chair:** d’Apolito, Francesco

**16:30-16:50, Paper WeA3A.1**

**Remote Control User Interfaces for Service Mobile Robots for Elderly Care**

Chivarov, Nayden

**16:50-17:10, Paper WeA3A.2**

**Development of a Decision Making Guide for Locomotion Design for In-Pipe Inspection Robots - One Step towards Open Innovation in Robotics**

Ibrahimov, Bahadur

**17:10-17:30, Paper WeA3A.3**

**Walking Trajectory Modeling of Biped Robot “Archie” for Stable Walking**

Mehmeti, Xhemajl  
Karahoda, Bertan  
Kopacek, Peter
### Thursday, October 27, 2016

#### Room A

**Plenary Session**

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30-09:15</td>
<td>Paper ThP1A.1</td>
<td>3D Metal Printing Technology</td>
<td>Duda, Thomas Raghavan, Venkat</td>
</tr>
<tr>
<td>09:15-09:35</td>
<td>Paper ThA1A.1</td>
<td>Managing the Introduction of Technological Change to Improve Stability</td>
<td>Chair: Gill, Karamjit S Co-Chair: Limani, Ylber Univ. of Brighton</td>
</tr>
<tr>
<td>09:35-09:55</td>
<td>Paper ThA1A.2</td>
<td>Data Driven Wave of Certainty a Question of Ethical Sustainability</td>
<td>Gill, Karamjit S Un. of Brighton</td>
</tr>
<tr>
<td>10:15-10:35</td>
<td>Paper ThA1A.3</td>
<td>Applied Relationship between Transport and Economy</td>
<td>Limani, Ylber University for Business and Technology</td>
</tr>
<tr>
<td>10:15-10:35</td>
<td>Paper ThA1A.4</td>
<td>Comparison of Some Chemical Parameters of Urban and Industrial Water Discharges Onto the River Lumbardhi of Prizren</td>
<td>Gashi, Sami University for Business and Technology</td>
</tr>
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#### Room B

**Regular Session**

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper ThA1B.1</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:15-09:35</td>
<td>Paper ThA1B.1</td>
<td>Developing and Operating Industrial Security Services to Mitigate Risks of Digitalization</td>
<td>Jansen, Christoph Siemens AG Vienna Univ. of Tech</td>
</tr>
</tbody>
</table>
09:35-09:55, Paper ThA1B.2

Educational and School Management Platform

Dermaku, Artan  
Bajrami, Xhevaahir  
Demaku, Nysret  
Kikaj, Adem  
Maloku, Sali  
Gashi, Blendi  
Sina, Shkelqim  
Demolli, Bujar  

Vienna Univ. of Tech  
Vienna Univ. of Tech  
Kingston Univ. of London, Faculty of Science, Engineering A  
Univ. of Prizren  
Univ. of Prizren, Faculty of Computer Science  
Univ. of Prizren, Faculty of Computer Science

09:55-10:15, Paper ThA1B.3

Enterprise Integration, Networking and Virtual Communications

Qehaja, Besnik  
Bajraliu, Ardian  
Shabani, Amet  
Hajrizi, Edmond  

University for Business and Technology  
University for Business and Technology  
University for Business and Technology  
University for Business and Technology

10:15-10:35, Paper ThA1B.4

An Approach to the Impact of Switching from the Traditional Use of ICT to the Internet of Things: How Smart Solutions, Can Transform SMEs

Abazi, Blerton  

University for Business and Technology

10:35 11:15 Coffee Break  
Hotel Bleart Terrace

ThA2A

Control and Automation to Improve Stability

Chair: Kopacek, Peter  
Co-Chair: Ahmeti, Muhamet  

Vienna Univ. of Tech  
University for Business and Technology

11:15-11:35, Paper ThA2A.1

Sliding-Mode Observer for IPMSM Sensorless Control by MTPA Control Strategy

Dhamo, Lindita  
Spahiu, Aida  
Nemec, Mitja  
Ambrozic, Vanja  

Pol. Univ. of Tirana, Electrical Engineering Faculty  
Univ. of Ljubljana  
Univ. of Ljubljana

11:35-11:55, Paper ThA2A.2

Model Reference Neural-Fuzzy Adaptive Control of the Concentration in a Chemical Reactor (CSTR)

Mohamed, Bahita  
Belarbi, Khaled, Khaled  

Faculty of Chemical Engineering, Univ. of Constantine 3  
Faculty of Chemical Engineering, Univ. of Constantine 1

11:55-12:15, Paper ThA2A.3

Dynamic Analysis and Control of Jib Crane in Case of Jib Luffing Motion Using Modelling and Simulations

Doçi, Ilir  
Hamidi, Beqir  
Lajqi, Shpetim  

Univ. of Prishtina, Faculty of Mechanical Engineering  
UP - Faculty of Mechanical Engineering  
UP - Faculty of Mechanical Engineering

12:15-12:35, Paper ThA2A.4

Impact of Time Relay for Changing of the Tariff on Commercial Losses at Mechanical Meters

Avni, Alidemaj  
Vehebi, Sofiu  

Kosovo Energetic Corporate  
University for Business and Technology

12:35-12:55, Paper ThA2A.5

Automatic Control on Water Supply Networks

Xhafa, Sokol  
Abdullahi, Ilir  
Ahmeti, Muhamet  

University for Business and Technology  
University for Business and Technology  
University for Business and Technology

12:35 - 14:00 Lunch Break

ThBr3Br  
14:10-18:00 Excursion  
Tirana

18:30 - 19:00 Dinner

ThBr5Br  
13:00 - 22:00 Banquet  
Restaurant
## Friday, October 28, 2016

**FrP1A Plenary 4**

**Chair:** Stapleton, Larry  
Waterford Inst. of Tech

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper</th>
<th>Title</th>
<th>Authors</th>
<th>Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-09:45</td>
<td>FrP1A.1</td>
<td>Deep Learning vs. Wise Learning: A Critical and Challenging Overview</td>
<td>Groumpos, Peter</td>
<td>Univ. of Patras</td>
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</table>

**FrA1A Environmental Issues**

**Chair:** Kopacek, Peter  
Vienna Univ. of Tech  
**Co-Chair:** Hoxha, Valmir  
University for Business and Technology

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper</th>
<th>Title</th>
<th>Authors</th>
<th>Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:45-10:05</td>
<td>FrA1A.1</td>
<td>Intelligent Disassembly of Components from Printed Circuit Boards to Enable Re-Use and More Efficient Recovery of Critical Metals</td>
<td>Kopacek, Bernd</td>
<td>Austrian Society for Systems Engineering and Automation - SAT</td>
</tr>
<tr>
<td>10:05-10:25</td>
<td>FrA1A.2</td>
<td>Surface Characterization of Glas Fibers Made from Jarosite Waste Using Contact Angle Measurements</td>
<td>Keroll-Mustafa, Mihone</td>
<td>University for Business and Technology</td>
</tr>
</tbody>
</table>
| 10:25-10:45 | FrA1A.3  | Variations in the Physico-Chemical Parameters of under Groundwater of Blinajë Catchment, Kosovo | Çadraku, Hazir                             | University for Business and Technology  
|          |           |                                                                       | Shala, Ahmet                                | Univ. of Prishtina                                |

**FrA1B Cost Oriented Automation:**

**Chair:** Shala, Muzafer  
University for Business and Technology  
**Co-Chair:** Bula, Ines  
University for Business and Technology

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<tr>
<th>Time</th>
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<th>Title</th>
<th>Authors</th>
<th>Institutions</th>
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</table>
| 09:45-10:05 | FrA1B.1  | Minimizing Non-Technical Loses with Point-To-Point Measurement of Voltage Drop between “SMART” Meters | Bula, Ines  
Hoxha, Valmir  
Shala, Muzafer  
Hajrizi, Edmond | University for Business and Technology  
University for Business and Technology  
University for Business and Technology  
University for Business and Technology |
| 10:05-10:25 | FrA1B.2  | Cost-Oriented Open Source Automation Potential Application in Industrial Control Applications | Vehebi, Sofiu  
Avni, Alidemaj | University for Business and Technology  
Kosovo Energetic Corporate |
| 10:25-10:45 | FrA1B.3  | Cost-Oriented Open Source Automation Potential Application in Industrial Control Applications | Vobruba, Tamara  
Körner, Andreas  
Breitenecker, Felix | Vienna Univ. of Tech  
Vienna Univ. of Tech  
Vienna Univ. of Tech |

**FrA2A Models & Simulation**

**Chair:** Breitenecker, Felix  
Vienna Univ. of Tech  
**Co-Chair:** Hamidi, Beqir  
Univ. of Pristina - Faculty of Mechanical Engineering

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<tr>
<th>Time</th>
<th>Paper</th>
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<th>Authors</th>
<th>Institutions</th>
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</table>
| 11:15-11:35 | FrA2A.1  | Modelling, Simulation and Analysis of a Spatial Interaction Model   | Vobruba, Tamara  
Körner, Andreas  
Breitenecker, Felix | Vienna Univ. of Tech  
Vienna Univ. of Tech  
Vienna Univ. of Tech |
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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Institutions</th>
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<tbody>
<tr>
<td>11:55-12:15, Paper FrA2A.3</td>
<td>Modelling and Sensitive Analysis of the Impact on Telematics System in Vehicles</td>
<td>Hamidi, Beqir Lajqi, Naser Hamidi, Beqir</td>
<td>Univ. of Pristina - Faculty of Mechanical Engineering Up – Fim</td>
<td>Univ. of Pristina</td>
</tr>
<tr>
<td>12:15-12:35, Paper FrA2A.4</td>
<td>Modelling and Simulation of the Turbocharged Diesel Engine with Intercooler</td>
<td>Lajqi, Naser Doçi, Ilir</td>
<td>Univ. of Pristina - Faculty of Mechanical Engineering</td>
<td></td>
</tr>
<tr>
<td>12:35-12:55, Paper FrA2A.5</td>
<td>Modelling and Analysis of Nominal Conveying Capacity for the Toothed Belt with STD Profile</td>
<td>Kycyku, Azem Likaj, Ramë</td>
<td>UP - FIM Professor Univ. of Prishtina</td>
<td></td>
</tr>
<tr>
<td>11:35-11:55, Paper FrA2B.2</td>
<td>File Formats - Characterization and Validation</td>
<td>Shala, Lavdërim Shala, Ahmet</td>
<td>Univ. of Freiburg Univ. of Prishtina</td>
<td></td>
</tr>
<tr>
<td>11:55-12:15, Paper FrA2B.3</td>
<td>Alternative Creation of Text to Speech Technology for the Albanian Language</td>
<td>Koshi, Blerand Bajrami, Xhevahir Hamiti, Mentor</td>
<td>Univ. of Prizren Vienna Univ of Tech</td>
<td></td>
</tr>
<tr>
<td>12:15-12:35, Paper FrA2B.4</td>
<td>HyperCode: Voice Aided Programming</td>
<td>Maloku, Rinor Pllana, Besart</td>
<td>University for Business and Technology University for Business and Technology</td>
<td></td>
</tr>
<tr>
<td>12:35-12:55, Paper FrA2B.5</td>
<td>Use of IoT Technology to Drive the Automotive Industry from Connected to Full Autonomous Vehicles</td>
<td>Krasniqi, Xhafer Hajrizi, Edmond</td>
<td>University for Business and Technology University for Business and Technology</td>
<td></td>
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<tr>
<td>12:55 - 14:15</td>
<td>Lunch Break</td>
<td></td>
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<tr>
<td>14:15-15:00, Paper FrP2A.1</td>
<td>Internet of Things and Big Data – the Disruption of the Value Chain and the Rise of New Software Ecosystems</td>
<td>Jesse, Norbert</td>
<td>QuinScape GmbH</td>
<td></td>
</tr>
<tr>
<td>Room A</td>
<td>FrA3A</td>
<td>Cross-Cultural Aspects of Engineering 1</td>
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</table>
| Chair: Stapleton, Larry  
Co-Chair: Stapleton, Amy | Waterford Inst. of Tech  
Univ. Lille III |
Stapleton, Larry  
Marques, Dawton | Waterford Inst. of Tech  
INSYTE |
| 15:20-15:40, Paper FrA3A.2 | Entrepreneurship Leading a Change in Europe: A Perspective of Young Professionals  
Kobza, Natalia  
Mutluçan, Cosku | European Students of Industrial Engineering and Management (ESTI)  
Yildiz Tech. Univ |
| 15:40-16:00, Paper FrA3A.3 | Inter-Enterprise Networking in Developing Regions: An International Stability Perspective  
Limani, Ylber  
Stapleton, Larry | Univ. for Business and Tech  
Waterford Inst. of Tech |

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<tr>
<th>Room B</th>
<th>FrA3B</th>
<th>Various Aspects</th>
</tr>
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</table>
| Chair: Groumpos, Peter  
Co-Chair: Stapleton, Amy | Univ. of Patras  
Univ. Lille III |
| 15:00-15:20, Paper FrA3B.1 | A New Conception on the Fuzzy Cognitive Maps Method  
Groumpos, Peter  
Vergini, Eleni S. | Department of Electrical and Computer Engineering, Univ. of Patras |
| 15:20-15:40, Paper FrA3B.2 | Comparing Distance Education versus Traditional Education in Engineering Management Masters Program: Sakarya University Sample  
Celik, Fatih | Vienna Univ. of Tech |
| 16:00 - 16:30 Coffee Break |

<table>
<thead>
<tr>
<th>Room A</th>
<th>FrA4A</th>
<th>Cross-Cultural Aspects of Engineering, 2</th>
</tr>
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</table>
| Chair: Stapleton, Amy  
Co-Chair: Stapleton, Larry | Univ. Lille III  
Waterford Inst. of Tech |
| 16:30-16:50, Paper FrA4A.1 | Increase Business Productivity with IT  
Skenderi, Besnik | University for Business and Technology |
| 16:50-17:10, Paper FrA4A.2 | The Importance of Geographical Position of Kosovo in Increased Trade, Transit and International Transport in the Balkans  
Mazrekaj, Ramadan | Pjetër Budi |
| 17:10-17:30, Paper FrA4A.3 | Public Space, Public Interest and Challenges of Urban Transformation  
Beqaj, Binak | University for Business and Technology |
| 17:30 - 19:00 Dinner |

<table>
<thead>
<tr>
<th>Room A</th>
<th>FrBr4A</th>
<th>Towards a New Agenda for Systems Engineering and International Stability</th>
</tr>
</thead>
</table>
| Chair: Stapleton, Larry  
Co-Chair: Stapleton, Amy | Waterford Inst. of Tech  
Univ. Lille III |
| 17:30-19:00, Paper FrBr4A.1 | Towards a New Agenda for Systems Engineering and International Stability: Panel Proposal  
Stapleton, Larry  
Stapleton, Amy  
Groumpos, Peter  
Jesse, Norbert | Waterford Inst. of Tech  
Univ. Lille III  
Univ. of Patras  
QuinScape GmbH |

FrBr5Br  
Restaurant  
19:00 - 21:00 Closing/Farewell
Thank you for your active participation and support

http://tecis2016.ubt-uni.net