

AGENDA

TECIS 2016



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



University for Business and
Technology



Vienna University of
Technology

KA-CASE

Kosova Association
for Control,
Automation
and Systems Eng

Agenda TECIS, October, 26-28 2016

Tuesday, October 25, 2016

14:00-18:00 Registration

Hotel Bleart lobby

Wednesday, October 26, 2016

We1A
9:00-9:45 Opening

Room A
Regular Session

Chair: Hajrizi, Edmond

University for Business and Technology

WeP1A
Plenary 1

Room A
Plenary Session

Chair: Kopacek, Peter

Vienna Univ. of Tech

10:00-10:45, Paper WeP1A.1

Smart Solution for Smart Factory

Hajrizi, Edmond

University for Business and Technology

10:45 - 11:15 Coffee Break

WeA1A
Robots

Room A
Invited Session

Chair: Durakbasa, Numan M.

Vienna Univ. of Tech. Inst. for Production Engineering and Laser Tech

Co-Chair: Kopacek, Peter

Vienna Univ. of Tech

Organizer: Kopacek, Peter

Vienna Univ. of Tech

Organizer: Durakbasa, Numan M.

Vienna Univ. of Tech. Inst. for Production Engineering and Laser

Organizer: Bauer, Jorge

Facultad Regional Buenos Aires Univ. Tech. Nacional

11:15-11:35, Paper WeA1A.1

Novel Trends in the Development of Automation and Robotics in Metrology for Production in the Future (I)

Durakbasa, Numan M.

Vienna Univ. of Tech. Inst. for Production Engine

Bauer, Jorge

Facultad Regional Buenos Aires Univ. Tech. Nacional

Baş, Gokcen

Vienna Univ. of Tech

KRAUTER, Lukas

TU Wien, Interchangeable Manufacturing and Industrial Metrology

11:35-11:55, Paper WeA1A.2

A Computer-Simulated Environment for Modeling and Dynamic Behavior-Analysis of Special Brushless Motors for Mechatronic Mobile Robotics Systems (I)

Durakbasa, Numan M.

Vienna Univ. of Tech. Inst. for Production Engine

Bauer, Jorge

Facultad Regional Buenos Aires Univ. Tech. Nacional

Alcoberro, Rodrigo

Univ. Tecnológica Nacional

Capuano, Esteban

Univ. Tecnológica Nacional

11:55-12:15, Paper WeA1A.3

Control of a Cost Oriented Humanoid Robot (I)

d'Apolito, Francesco

Austrian Inst. of Tech

Mehmeti, Xhemajl

University for Business and Technology

Kopacek, Peter

Vienna Univ. of Tech

12:15-12:35, Paper WeA1A.4

Robots for Education (Edutainment) (I)

Linert, Julia

TU Wien, Inst. IHRT

Kopacek, Peter

Vienna Univ. of Tech

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)

Yurci, Cem

Yildiz Tech. Univ

Akdogan, Anil

Yildiz Tech. Univ

Durakbasa, Numan M.

Vienna Univ. of Tech. Inst. for Production Engine

13:35-14:10 Lunch Break

WeP2A
13:00-13:30, Plenary 2

Room A
Plenary Session

Chair: Jesse, Norbert

QuinScape GmbH

14:15-15:00, Paper WeP2A.1

Development Trends in Robotics

Kopacek, Peter

Vienna Univ. of Tech

WeA2A
Cost Effective Operation and Maintenance

Room A
Regular Session

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

Waterford Inst. of Tech
Univ. for Business and Tech

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

Waterford Inst. of Tech
Waterford Inst. of Tech
Waterford Inst. of Tech
Waterford Inst. of Tech
Waterford Insitute of Tech

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

University for Business and Technology
University for Business and Technology
University for Business and Technology
University for Business and Technology
Waterford Institute of Tech

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

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

WeA2B
Sustainable Design and Control

Room B
Regular Session

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

Univ. of Prizreni
Yuzuncu Yil Univ

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

Department of Mechanical and Aerospace Engineering, Sapienza Univ. Of Roma
Department of Mechanical and Aerospace Engineering, Sapienza Univ. Of Roma
Department of Mechanical and Aerospace Engineering, Sapienza Univ. Of Roma

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

Safety from Asbestos Exposure in Kosovo

Dugolli, Mimoza

Univ. of Prizreni

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

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

ATAN, Ozkan

Yuzuncu Yil Univ

16:00 - 16:30 Coffee Break

WeA3A
Mechatronic Systems and Robotics

Room A
Regular Session

Co-Chair: Ibrahimov, Bahadur
Chair: d'Apolito, Francesco

Vienna Univ. of Tech
Austrian Inst. of Tech

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

Remote Control User Interfaces for Service Mobile Robots for Elderly Care

Chivarov, Nayden

European Pol. Univ

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

Vienna Univ. of Tech

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

Walking Trajectory Modeling of Biped Robot "Archie" for Stable Walking

Mehmeti, Xhemajl
Karahoda, Bertan
Kopacek, Peter

University for Business and Technology
University for Business and Technology
Vienna Univ. of Tech

17:30-17:50, Paper WeA3A.4

Trajectory Planning and Inverse Kinematics Solver for Real Biped Robot with 10 DOF-S

Bajrami, Xhevahir
Dermaku, Artan
Likaj, Ramë
Demaku, Nysret
Kikaj, Adem
Maloku, Sali
Kikaj, Dafina

Vienna Univ. of Tech
Vienna Univ. of Tech
Univ. of Prishtina
Kingston Univ. of London, Faculty of Science, Engineering A
Univ. of Prizren
Univ. of Prizren
Jo" Zef Stefan International Postgraduate School, Jamova Ces

17:50-18:10, Paper WeA3A.5

The Second Prototype Design of the Upper Body of Archie

Sutaj, Abedin

Vienna Univ. of Tech

18:10-18:30, Paper WeA3A.6

The First Prototype
Sutaj, Abedin

Vienna Univ. of Tech

WeBr4Br
18:30 - 20:30 Welcome

Restaurant

Thursday, October 27, 2016

ThP1A
Plenary 3

Room A
Plenary Session

Chair: Groumpos, Peter

Univ. of Patras

08:30-09:15, Paper ThP1A.1

3D Metal Printing Technology

Duda, Thomas
Raghavan, Venkat

Pentair Valves & Controls, Schaffhausen
Pentair Global Engineering Center, Bangalore

ThA1A
Managing the Introduction of Technological Change to Improve Stability

Room A
Regular Session

Chair: Gill, Karamjit S
Co-Chair: Limani, Ylber

Univ. of Brighton
University for Business and Technology

09:15-09:35, Paper ThA1A.1

Building a Responsible Europe - the Value of Circular Economy
Kobza, Natalia
Schuster, Anna

Students of Industrial Engineering and Management (ESTI
Vrije Univ. Brussel

09:35-09:55, Paper ThA1A.2

Data Driven Wave of Certainty a Question of Ethical Sustainability

Gill, Karamjit S

Univ. of Brighton

09:55-10:15, Paper ThA1A.3

Applied Relationship between Transport and Economy

Limani, Ylber

University for Business and Technology

10:15-10:35, Paper ThA1A.4

Comparison of Some Chemical Parameters of Urban and Industrial Water Discharges Onto the River Lumbardhi of Prizren

Gashi, Sami

University for Business and Technology

ThA1B
Enterprise Integration and Networking, Software

Room B
Regular Session

Chair: Jansen, Christoph
Co-Chair: Dermaku, Artan

Siemens AG
Vienna Univ. of Tech

09:15-09:35, Paper ThA1B.1

Developing and Operating Industrial Security Services to Mitigate Risks of Digitalization

Jansen, Christoph

Siemens AG

09:35-09:55, Paper ThA1B.2

Educational and School Management Platform

Dermaku, Artan
Bajrami, Xhevahir
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
Univ. of Prizren, Faculty of Computer Science
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

Room A
Regular Session

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
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 Controll on Water Supply Netowrks

Xhafa, Sokol
Abdullahu, 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

FrP1A
Plenary 4Room A
Plenary Session

Chair: Stapleton, Larry

Waterford Inst. of Tech

09:00-09:45, Paper FrP1A.1

Deep Learning vs. Wise Learning: A Critical and Challenging Overview
Groumpos, Peter

Univ. of Patras

FrA1A
Environmental IssuesRoom A
Regular SessionChair: Kopacek, Peter
Co-Chair: Hoxha, ValmirVienna Univ. of Tech
University for Business and Technology

09:45-10:05, Paper FrA1A.1

Intelligent Disassembly of Components from Printed Circuit Boards to Enable Re-Use and More Efficient Recovery of Critical Metals

Kopacek, Bernd

Austrian Society for Systems Engineering and Automation -SAT

10:05-10:25, Paper FrA1A.2

Surface Characterization of Glas Fibers Made from Jarosite Waste Using Contact Angle Measurements

Kerolli-Mustafa, Mihone

University for Business and Technology

10:25-10:45, Paper FrA1A.3

Variations in the Physico-Chemical Parameters of under Groundwater of Blinajë Catchment, Kosovo

Cadroku, Hazir
Shala, AhmetUniversity for Business and Technology
Univ. of PrishtinaFrA1B
Cost Oriented Automation:Room B
Regular SessionChair: Shala, Muzafer
Co-Chair: Bula, InesUniversity for Business and Technology
University for Business and Technology

09:45-10:05, Paper FrA1B.1

Minimizing Non-Technical Loses with Point-To-Point Measurement of Voltage Drop between "SMART" Meters

Bula, Ines
Hoxha, Valmir
Shala, Muzafer
Hajrizi, EdmondUniversity for Business and Technology
University for Business and Technology
University for Business and Technology
University for Business and Technology

10:05-10:25, Paper FrA1B.2

Cost-Oriented Open Source Automation Potential Application in Industrial Control Applications

Hoxha, Valmir
Bula, Ines
Shala, Muzafer
Hajrizi, EdmondUniversity for Business and Technology
University for Business and Technology
University for Business and Technology
University for Business and Technology

10:25-10:45, Paper FrA1B.3

Cost-Oriented Open Source Automation Potential Application in Industrial Control Applications

Vehebi, Sofiu
Avni, AlidemajUniversity for Business and Technology
Kosovo Energetic Corporate

10:45 11:15 Coffee Break

Hotel Bleart Terrace

FrA2A
Models & SimulationRoom A
Regular SessionChair: Breitenecker, Felix
Co-Chair: Hamidi, BeqirVienna Univ. of Tech
Univ. of Pristina - Faculty of Mechanical Engineering

11:15-11:35, Paper FrA2A.1

Modelling, Simulation and Analysis of a Spatial Interaction Model

Vobruba, Tamara
Körner, Andreas
Breitenecker, FelixVienna Univ. of Tech
Vienna Univ. of Tech. Inst. for Analysis and Scie
Vienna Univ. of Tech

11:35-11:55, Paper FrA2A.2

Optimization of the Battery Schedule for Residential Microgrid Applications

MARINOVA, GALIA
GULIASHKI, Vassil

Tech. Univ
Inst. of Information and Communication Tech. - BAS

11:55-12:15, Paper FrA2A.3

Modelling and Sensitive Analysis of the Impact on Telematics System in Vehicles

Hamidi, Beqir
Lajqi, Naser
Hamidi, Beqir

Univ. of Pristina - Faculty of Mechanical Engineering
Up – Fim
Univ. of Pristina

12:15-12:35, Paper FrA2A.4

Modelling and Simulation of the Turbocharged Diesel Engine with Intercooler

Lajqi, Naser
Doçi, Ilir

Up – Fim
Univ. of Pristina - Faculty of Mechanical Engineering

12:35-12:55, Paper FrA2A.5

Modeling and Analysis of Nominal Conveying Capacity for the Toothed Belt with STD Profile

Kycyku, Azem
Likaj, Ramë

UP - FIM Professor
Univ. of Prishtina

FrA2B
Intelligent Systems and Applications

Room B
Regular Session

Chair: Shala, Ahmet
Co-Chair: Krasniqi, Xhafer

Univ. of Prishtina
University for Business and Technology

11:15-11:35, Paper FrA2B.1

Perimeter Detection and Surveillance of Polluted Areas by Robotized Agents in a Hybrid Wireless Sensor Network

Ahmed, Sevil Aptula
Popov, Vasil Liubenov
Topalov, Andon Venelinov
Shakev, Nikola Georgiev

Tech. Univ. of Sofia, Branch Plovdiv, Plovdiv, Bulgaria
Tech. Univ. of Sofia, Branch Plovdiv, Plovdiv, Bulgaria
Tech. Univ. of Sofia, Branch Plovdiv, Plovdiv, Bulgaria
Tech. Univ. of Sofia, Branch Plovdiv, Plovdiv, Bulgaria

11:35-11:55, Paper FrA2B.2

File Formats - Characterization and Validation

Shala, Lavdërim
Shala, Ahmet

Univ. of Freiburg
Univ. of Prishtina

11:55-12:15, Paper FrA2B.3

Alternative Creation of Text to Speech Technology for the Albanian Language

Koshi, Blerand
Bajrami, Xhevahir
Hamiti, Mentor

Univ. of Prizren
Vienna Univ. of Tech
Univ. of Prizren

12:15-12:35, Paper FrA2B.4

HyperCode: Voice Aided Programming

Maloku, Rinor
Pllana, Besart

University for Business and Technology
University for Business and Technology

12:35-12:55, Paper FrA2B.5

Use of IoT Technology to Drive the Automotive Industry from Connected to Full Autonomous Vehicles

Krasniqi, Xhafer
Hajrizi, Edmond

University for Business and Technology
University for Business and Technology

12:55 - 14:15 Lunch Break

FrP2A
Plenary 5

Room A
Plenary Session

Chair: Duda, Thomas

Pentair Valves & Controls, Schaffhausen

14:15-15:00, Paper FrP2A.1

Internet of Things and Big Data – the Disruption of the Value Chain and the Rise of New Software Ecosystems

Jesse, Norbert

QuinScape GmbH

FrA3A
Cross-Cultural Aspects of Engineering 1

Room A
Regular

Chair: Stapleton, Larry
Co-Chair: Stapleton, Amy

Waterford Inst. of Tech
Univ. Lille III

15:00-15:20, Paper FrA3A.1

Human Values and Religion: Semi-Automatic Human Values Systems Analysis for Religious Institutional Diagnostics

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
Mutlucan, 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

FrA3B
Various Aspects

Room B
Regular Session

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.

Univ. of Patras
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

FrA4A
Cross-Cultural Aspects of Engineering, 2

Room A
Regular Session

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

FrBr4A
Towards a New Agenda for Systems Engineering and International Stability

Room A
Round table discussion

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>