

SmartCity360®

THE GATEWAY TO INNOVATION

EXPLORE • EXCEED • EXCHANGE

22 - 24 NOVEMBER 2016



Under the auspices of the Slovak Presidency of the Council of the EU and the European Commission, and the Ministry of Economy of the Slovak Republic.



MAIN PARTNERS



PARTNERS



MEDIA PARTNERS



SHARE YOUR EXPERIENCE

Follow us on Twitter (@EAIchannel) and stay up to date!



#SmartCity360

SPEAKERS



SWEN POSTELS

Strategist and Chief Technologist Automotive Hewlett-Packard GmbH



MARTIN JESNY

Director of SON Media and Information Professional



JAROSLAV HOLEČEK

Executive Vice President of Automotive Industry Association of the Slovak Republic



BERT WITKAMP

Secretary General of AVERE, The European Association for Electromobility



ROMAN BREČELY

Former Minister of Transport, Construction and Regional Development, Slovakia



JAN LESINSKY

Professor, FME STU



ANDRÁS ALFÖLDY-BORUSS

Founder of Next Generation Stress Management (NGStress)



RADOSLAV MIZERA

Vice President, Solved- The Cleantech Company



RASTISLAV CHOVANEC

State Secretary of The Ministry of Economy of the Slovak Republic



THOMAS WILLSON

Standardisation Officer Smarts meters and Smart grids, Chemicals, Energy- European Environmental Citizens' Organization for Standardisation



TAMÁS VAHL

Industry Leader Distribution, Energy and Utilities IBM Central and Easter Europe (CEE)



TOMAS PETOVSKY

General Manager of Uber Czech Republic and Slovakia



CSABA JUHÁSZ

Electric Engineer



DAGMAR CAGÁNOVÁ

Assistant Professor at Slovak University of Technology in Bratislava



PATRIK KRIŽANSKÝ

Managing Partner, ENAIRGY



PREDRAG NIKOLIC

Dean of the Faculty of Digital Production at Educons University Serbia and Senior Research Fellow at Imagineering Institute Malaysia



PETER BALIK

Economic Specialist at the U.S. Embassy in Bratislava



JURAJ KAPASNY

Co-founder and Data Scientist at Knoyd



LANCE LEVERETTE

Market Research and Commercialization Consultant- Industrial and Technical Markets



TOMÁŠ KOVÁČIK

Teacher and researcher at Faculty of Informatics and Information Technologies of Slovak University of Technology in Bratislava



MASSIMO VILLARI

Associate Professor in Computer Engineering at University of Messina (Italy)



EDUARDO TOMÉ

Professor at Universidade Europeia University in Lisbon



HELMUT W. MORSI

Advisor to the Director of "European Mobility Network", including Coordination of Innovation & New Technologies and IT/TENtec European Commission, DG MOVE, Brussels, BE.



STEFAN STANKO

Vice-rector for education, STU



CARLOS VARELA MARTÍN

Consultant, Resourcefully



JEAN-PHILIPPE LE GAC

Regulation Manager, Valeo Driving Assistance



JURAJ LAPIN

Member of The Presidium of SAS, Slovak Academy of Sciences



MAROŠ FINKA

Expert, Ministry of Construction, Transport and Regional Development of the Slovak Republic, Director SPECTRA Centre of Excellence of the EU and Institute of Management Slovak University of Technology in Bratislava



PETER PIŠTEK

Vice-dean for bachelor study and study promotion STU



IVAN MRVOŠ

CEO & founder at Include

ABOUT

SmartCity360°

THE GATEWAY TO INNOVATION

After the first successful edition, EAI is bringing you the 2nd Smart City 360° 2016 Summit bridging the automotive industry with the IT sector. The objective of the Summit is to provide a platform for scientific collaboration, presentation of scientific output and to link research with practice.

With the Slovak Presidency in the Council of the European Union, there is no better place to hold the Summit than in the automotive industry hub of Central Europe. The Slovak capital, Bratislava, will host the Smart City 360° Summit 2016 providing a meeting point for everyone involved in the industry who wants to know the hottest news and most up-to-date issues.

Since 2007, Slovakia has been the world's largest producer of cars per capita. In 2015, for the first time ever, the number of cars produced in Slovakia exceeded one million. However, to be a leader, careful planning needs to be done in order to ensure sustainability of this strategic industry.

On the other hand, the future of mobility does not lie in hardware and manufacturing, as there is a shift towards software and services being at the center of attention. That is why companies like Google, Uber, or Apple are becoming the biggest competitors for the future market. Manufacturers have to move up the value chain and enter the century of self-driven cars as that is where the economic future resides.

Smart City 360° Summit 2016 will give you an opportunity to forge new relationships with technology leaders, strategists and key decision makers and gain access to a target rich environment of young and promising researchers, and established names in the field, as well as up and coming members of the community.

SUMMIT PROGRAM

DAY 1 - 23 NOVEMBER 2016

09:00-09:10

OPENING

STEFAN STANKO

09:10-10:30

KEYNOTE SPEAKERS

An overview of the current situation within smart cities and how the automotive industry is one of the key elements to focus on in the area of "SMART"

MAROŠ FINKA
RASTISLAV CHOVANEC
ROMAN BRECELY

10:30-11:00

COFFEE BREAK

11:00-12:30

PANEL DISCUSSION – AUTOMOTIVE INDUSTRY IN SLOVAKIA (CURRENT SITUATION)

- Slovakia - world's largest producer of cars per capita, 'Tatra Tiger' in the automotive industry
- Automotive Industry in Slovakia – challenges and opportunities
- Acquisition of talent, local suppliers, improving quality, increasing labour cost

TOMAS PETOVSKY
PETER PIŠTEK
JAN LESINSKY
JAROSLAV HOLEČEK
MARTIN JESNY

12:30-13.30

LUNCH

13:30-15:00

PANEL DISCUSSION – FUTURE OUTLOOK ON THE AUTOMOTIVE INDUSTRY IN EUROPE

- Shift from manufacturing to software and services: Technology and innovation needs to be aligned with excellent customer experience
- Self-driven cars, connected cars, enhanced driver support and other innovative transportation systems

CARLOS VARELA MARTÍN
ROMAN BRECELY
BERT WITKAMP
SWEN POSTELS

15:00-15:30

COFFEE BREAK

15:30-17:00

ALTERNATIVE ENERGY SOURCES

- Solar panels and wind power and their use in transportation and smart cities
- Environment-friendly transportation
- Cost-effective solutions for individuals, municipalities, and smart cities

CARLOS VARELA MARTÍN
PATRIK KRIŽANSKÝ
TAMÁS VAHL
THOMAS WILLSON

17:00-17:30

THE IMPORTANCE OF COOPERATION AMONG INDUSTRY, RESEARCH AND UNIVERSITIES (CASE STUDY)

Comparison of educational systems, challenges and opportunities. Focus on cooperation among industry, universities and researchers. Imagineering Institute Iskandar Malaysia case study.

PREDRAG NIKOLIC

DAY 2 - 24 NOVEMBER 2016

09:00-09:30

KEYNOTE SPEAKERS

JURAJ LAPIN
HELMUT W. MORSI

09:30-11:00

SUCCESS STORIES

Connected cars, smart solutions, electric cars.

TOMAS PETOVSKY
CARLOS VARELA MARTÍN
TOMÁŠ KOVÁČIK
ANDRÁS ALFÖLDY-BORUSS
IVAN MRVOŠ

11:00-11:30

COFFEE BREAK

11:30-12:30

TECHNOLOGY FORECAST I.

Smart City and automotive experts and professionals will put their heads together in the Technology forecast session to figure out what the future holds for smart cities.

JEAN-PHILIPPE LE GAC
MASSIMO VILLARI
LANCE LEVERETTE
TAMÁS VAHL

12:30-13:30

LUNCH

13:30-14.00

TECHNOLOGY FORECAST II.

RADOSLAV MIZERA

14:00-15:00

PANEL DISCUSSION – BIG DATA: OPPORTUNITIES AND THREATS

- How to use Big Data effectively
- Data security, data protection and data breaches

LANCE LEVERETTE
JURAJ KAPASNY
PETER BALIK

15:00-15.30

COFFEE BREAK

15:30-16:30

BIRDS OF A FEATHER (ROUND TABLES DISCUSSIONS)

Discuss with experts the pressing issues in smart city and automotive sector.

EDUARDO TOMÉ
MASSIMO VILLARI
PREDRAG NIKOLIC
CSABA JUHÁSZ



EAI INTERNATIONAL CONFERENCE ON MANAGEMENT OF MANUFACTURING SYSTEMS

22 NOVEMBER 2016

8:00-9:00 REGISTRATION

9:00 - 9:30 WELCOME SPEECH

Opening Ceremony of MMS 2016
ASSOC. PROF. DR. MICHAL BALOG

9:30-12:30 PANEL DISCUSSION / PAPER PRESENTATIONS

9:30-9:50 - Information and Communication System for Informing Users in Traffic Environment - SAforA
KEYNOTE SPEAKER - ASSOC. PROF. DR. DRAGAN PERAKOVIĆ – UNIVERSITY OF ZAGREB (HR)

9:50-10:10 - Comparison of transverse roughness of the outer surfaces of thin-walled components manufactured (TUKE, Faculty of Manufacturing Technologies with a seat in Prešov-SK)
ASSOC. PROF. DR. PETER MICHALIK

10:10-10:30 - Approaches to complexity measurement of the production process (TUKE, Faculty of Manufacturing Technologies with a seat in Prešov-SK)
DR.SLAVOMÍR BEDNÁR

10:30-11:00 COFFEE BREAK

11:00-11:20 - IoT challenge: older test machines modernization in an automotive plant (Banking Institute in Prague-CZ)
ASSOC. PROF. DR. JURAJ PANČÍK

11:20-11:40 - Calculation of critical values of several probability distributions using standard numerical methods (TUKE, Faculty of Manufacturing Technologies with a seat in Prešov-SK)
PROF. DR. DUŠAN KNEŽO

11:40-12:00 - Study of cutting zone of WPC material after cold cutting (TUKE, Faculty of Manufacturing Technologies with a seat in Prešov-SK)
DR. DUŠAN MITAL

12:00-12:20 - Evaluation of selected surface integrity parameters after machining of composite materials with natural reinforcement (TUKE, Faculty of Manufacturing Technologies with a seat in Prešov-SK)
M.SC. ENG. FRANTIŠEK BOTKO

12:30-13:30 LUNCH

13:30-16:45 PANEL DISCUSSION / POSTER SESSION

13:30- 13:50 - Euro-Personal s.r.o., Slovakia
JUDR. JOZEF PETRÍK

13:50-14:10 - ŽSSK Cargo, Slovakia
M.SC.ENG. MIROSLAV HOPTA

14:10-14:30 - ŽOS Trnava a.s., Slovakia
M.SC.ENG. MÁRIA WENDT

14:30-14:50 - Tomark s.r.o., Prešov, Slovakia
M.SC.ENG. DANIEL TOMKO

14:50-15:15 COFFEE BREAK

15:15-15:40 - Gaben s.r.o., Ostrava, Czech republic
M.SC.ENG. JAKUB UNUCKA

15:40-16:00 - 1.prešovská nástrojareň, s.r.o., Prešov-Lubotice, Slovakia
M.SC. ENG. EVA VOJNOVÁ

16:00-16:20 - SEZ Kropachy a.s., Slovakia
MSC.ENG. IMRICH SMARŽÍK

16:20-16:45 - Automotive Industry Association of the Slovak republic, Slovakia
KEYNOTE SPEAKER- DR.H.C. MULT. PROF. ING. JURAJ SINAY, DRSC.

16:45-17:15 POSTER SESSION

Verification of RFID Tags Properties on the Tagged Products
DORČÁK D., HRICOVÁ R., ŠEBEJ P.

Monitoring the intensity of mechanical vibration during the processing of chrome steel 14109
OLEJÁROVÁ Š., DOBRANSKÝ J., PANDA A.

Risk analysis causing downtimes in production process of hot rolling mill
MALINDŽÁKOVÁ M., CAGÁŇOVÁ D., ROSOVÁ A., MALINDŽÁK, D.

Using simulation software in composites industry
KNAPČÍKOVÁ, L., BALOG M., RUGGIERO A., HUSÁR J.

CAPP as a tool for strategy development of competitiveness in the mechanical engineering industry within European countries
MONKA P., MONKOVÁ K.

Definition of pneumatic artificial muscles operational characteristics
RIMÁR M., ŠMERINGAI P., FEDÁK M.

Quality as a part of modern technology in the automotive industry
MARKULIK, Š., SINAY J., PAČAIOVÁ H.

17:15-17:30 CLOSING CEREMONY OF MMS 2016

18:30- 22:00 SOCIAL EVENING

(Esperienza Cafe Restaurant, Žilinská 7112/3, 811 05 Bratislava - Staré Mesto-Staré Mesto)



EAI INDUSTRY OF THINGS AND FUTURE TECHNOLOGIES CONFERENCE

22 NOVEMBER 2016

8:00-9:00 REGISTRATION

9:00-10:30 KEYNOTE SPEAKERS

9:00-09:30 - Keynote speech of Predrag Nikolic

9:30-10:00 - Keynote speech of Eduardo Tome

10:00-10:30 - Keynote speech of Juraj Hostak

10:30-10:50 COFFEE BREAK

10:50-12:30 PRESENTATION OF PAPERS (PRESENTATION OF EACH PAPER APPROX. 20 MINUTES)

Utilization of Exact Methods within Decision-making Process in Innovation Management - Application of AHP Method

ASSOC. PROF. DAGMAR CAGÁŇOVÁ, ASSOC. PROF. DOC. ING. DANIELA ŠPIRKOVÁ, PHD, RICHARD JURENKA

Smart City in Terms of Social Innovations and Human Capital

ING. MGR. RICHARD JURENKA, ASSOC. PROF. DAGMAR CAGÁŇOVÁ, ING. NATÁLIA HORŇÁKOVÁ, PHD., ING. AUGUSTÍN STAREČEK

Effective Exploitation of Human Resources Potential in Innovation Aimed at Ensuring Production Sustainability

ING. ZDENKO STACHO, PHD, DOC. ING. KATARÍNA STACHOVÁ, PHD, ASSOC. PROF. DAGMAR CAGÁŇOVÁ

Multimedia System for Taxi Services with Awareness of Malicious Behavior as a Part of Smart Transportation

ING. PETER PISTEK, PHD., ING. MARTIN POLAK

Developed lighting technology for Smart Cities

PROF. ING. MICHAL CEHLÁR, PHD, DOC. ING. DUŠAN KUDELAS, PHD.

12:30-13:30 LUNCH

12:30-14:50 PRESENTATION OF PAPERS (PRESENTATION OF EACH PAPER APPROX. 20 MINUTES)

Mapping the Development and Processes of Emerging „Green Markets“ in the Context of Sustainable Marketing Management

ING. GABRIELA PAJTINKOVÁ BARTÁKOVÁ PHD, JUDR. PHDR. KATARÍNA GUBÍNIOVÁ, PHD. PAEDDR. JARMILA BRŤKOVÁ

Preparation for Smart Industry, Introduction and the Comparative Study

DOC. ING. JÁN PAPULA, PHD, MGR. LUCIA KOHNOVÁ, PHD, MGR. ZUZANA PAPULOVÁ, PHD, MICHAEL SUCHOBA

Environmental policy enterprise as a competitive advantage

MGR. ING. ZUZANA TEKULOVÁ, PHD, DOC. ING. ZUZANA CHODASOVÁ, PHD, DOC. ING. MARIÁN KRÁLIK, CSC

A probability based hybrid energy-efficient privacy preserving scheme to encounter with wireless traffic snooping in smart home

MOHAMMAD ALI NASSIRI ABRISHAMCHI, ABDUL HANAN ABDULLAH, PROF. ADRIAN DAVID CHEOK, ASSOC. PROF. PREDRAG NIKOLIC

14:50-15:15 COFFEE BREAK

15:15-19:00 PRESENTATION OF PAPERS (PRESENTATION OF EACH PAPER APPROX. 20 MINUTES)

Sustainable Reporting as Important Tool of Responsible Behaviour towards Stakeholders in Conditions of Slovak Food Industry

ING. MÁRIA HOLIENČINOVÁ, PHD, ING. LUDMILA NAGYOVÁ, PHD

Multimodal Transport Hub - an Architectural Challenge for Smart City Bratislava

DOC. ING. ARCH. MILAN ANDRÁŠ, PHD, ING. ARCH. EVA ORAVCOVÁ, PHD, ING. ARCH. PAVEL NAHÁLKA, PHD

Design for Behavior Change: Transforming Smart Cities public spaces into interactive environments for behavioral changes

ASSOC. PROF. PREDRAG K. NIKOLIC, PROF. ADRIAN DAVID CHEOK

Smart water management – innovation within tradition

ING. MARTINA LAZAROVÁ, DOC. ING. ARCH. DANIELA GAŽOVÁ, PHD.

Smart governance: A tool for climate mitigation in cities?

ING. ALFRÉD KAISER, PROF. MGR. TATIANA KLUVÁNKOVÁ, PHD.

Smart Twins Bratislava and Vienna strategy

ING. VLADIMÍR ONDREJČKA, PHD., RNDR. MILAN HUSÁR, ING. LUBOMÍR JAMEČNÝ, PHD.

Towards a smart city: an integrative spatial perspective on energy transition

ING. FILIP GULAN, PROF. ING. ARCH. MAROŠ FINKA, PHD.

Quality of Space in Cities Respecting Requirements of Specific Target Groups as Objective of Smart City Concepts

MGR. SILVIA ONDREJČKOVÁ, DOC. PHDR. DAGMAR PETRÍKOVÁ, PHD.

City as a Personality: New Concept of Creative City

ING. ARCH. ZUZANA LADZIANSKA, DOC. MGR. MATEJ JAŠŠO, PHD.

Internet of Things for the Hotel Industry: A Review

ASSOC. PROF. SÉRGIO TENREIRO DE MAGALHÃES, ASSOC. PROF. MARIA JOSÉ RIOS DE MAGALHÃES, ASSOC. PROF. KENNETH REVETT

Enhancing elderly mobility through IoT using textiles: a review

ASSOC. PROF. SÉRGIO TENREIRO DE MAGALHÃES, ASSOC. PROF. MARIA JOSÉ RIOS DE MAGALHÃES, ASSOC. PROF. KENNETH REVETT



COLSOL + SEVNET

22 NOVEMBER 2016

8:00-9:00 REGISTRATION

9:00-10:30 KEYNOTE SPEAKERS

9:00 - 09:45 Keynote speech of Professor Michal Varmus

9:45 - 10:30 Keynote speech of Jozef Herčko

10:30-11:00 COFFEE BREAK

11:00-12:30 PRESENTATION OF PAPERS (PRESENTATION OF EACH PAPER APPROX. 30 MINUTES)

Smart City Bus Mobile Application

DR. ENIS AYTAR, DR. SERKAN MEZARCIÖZ, DR. MURAT DEMIRDÜZEN, DR. MERT UMUT OZKAYNAK, PROF.DR. KADIR AYDIN

Smart Transportation Applications for City Buses

DR. SERKAN MEZARCIÖZ, DR. ENIS AYTAR, DR. MURAT DEMIRDÜZEN, DR. MERT UMUT OZKAYNAK, PROF.DR. KADIR AYDIN

Vehicle Data Processing and Reporting System for Smart City Buses

DR. SERKAN MEZARCIÖZ, DR. ENIS AYTAR, DR. MURAT DEMIRDÜZEN, DR. MERT UMUT OZKAYNAK, PROF.DR. KADIR AYDIN

12:30-13:30 LUNCH

13:30-14:50 PRESENTATION OF PAPERS (PRESENTATION OF EACH PAPER APPROX. 30 MINUTES)

Cooperation as a key element of Human-Centred Factories

ING. BRANISLAV MICIETA, PHD., ING. JOZEF HERČKO, ING. LUDMILA ZÁVODSKÁ, ING. MIROSLAV RAKYTA, PHD

Cooperation between university and research institute: best practice from Zilina, Slovakia

ING. JOZEF HERČKO, PROF. ING. MILAN GREGOR, PHD., ING. MIROSLAV FUSKO, ING. VLADIMÍR MAGVAŠI

Model Approach for Formation Synergy Effects in Automotive Industry with Support of Big Data Solutions

ING. MARTIN HOLUBČÍK, ING. GABRIEL KOMAN, ING. MICHAL VARMUS, PHD., ING. MILAN KUBINA

14:50-15:15 COFFEE BREAK

15:15-16:15 PRESENTATION OF PAPERS (PRESENTATION OF EACH PAPER APPROX. 30 MINUTES)

Cooperative relations and activities in the cluster

PROF. ING. JOSEF VODÁK, PHD., ING. MICHAL VARMUS, PHD., ING. PATRIK FERENC, ING. DIANA ZRAKOVÁ

Sustainable Organization of Cooperation Activities in a Company

DOC. MGR. JAKUB SOVIAR, PH.D., DOC. ING. VILIAM LENDEL, PHD., PROF. ING. JOSEF VODÁK, ING. JANA KUNDRÍKOVÁ

VENUE

BRATISLAVA, SLOVAKIA

Bratislava is the city for everyone. It is strategically located on the Danube river bank, in close proximity of the borders with Hungary and Austria. Lovely historic Old Town is interwoven by cosy, modern and stylish cafes and restaurants. From long-walk lovers, through history-hunters up to party animals, Bratislava undoubtedly proves itself as a cultural crossroad of Central Europe.

Hotel **** SOREA REGIA
Kráľovské údolie 6
811 02 Bratislava



SmartCity360°

THE GATEWAY TO INNOVATION

www.smartcity360.org



RESEARCH MEETS INNOVATION

About EAI

European Alliance for Innovation (EAI) is a vibrant ecosystem for fostering innovation to benefit the society by improving global competitiveness.

Through active participation, organisations find ideas and talent, while individuals find organisations in need of their ingenuity and craft.

This way, EAI brings research to innovation through community.

EAI events

EAI organizes 100+ conferences, summits, workshops and tutorials annually across all continents. Discussed topics cover innovative areas of:

- **eHealth**
- **Internet of Things**
- **Smart Cities**
- **Applications for Future Internet**

All accepted papers are published in the proceedings of the world's largest scientific libraries and available through **SpringerLink DL / ACM DL / IEEE Xplore**.

The proceedings are submitted for inclusion to the leading indexing services: **DBLP, Google Scholar, Thomson Scientific ISI Proceedings, El Elsevier Engineering Index, CrossRef, Scopus**, as well as **EAI's own EU Digital Library (EUDL)**.

JOIN THE EAI COMMUNITY

TO LEARN MORE, VISIT

www.eai.eu

EAI office | Bratislava, Slovak Republic

Phone: +421 911 111 156

E-mail: conferences@eai.eu

Web: www.eai.eu