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CONFERENCE PROGRAM



MAY 26, 2022



Opening Session | Main Hall

9:00	prof. Dr. Ing. Miroslav Svítek, dr. h. c. (Symposium Chairman, Czech Technical University in Prague) prof. Ing. Ondřej Příbyl, Ph.D. (Dean of the Faculty of Transportation Sciences, Czech Technical University in Prague) Mgr. Ing. Jaromír Beránek (Head of the IT and Smart Cities Committee of the City of Prague) JUDr. Martina Děvřová, MPA (State Secretary, Ministry of Industry and Trade) Recognition of the Dual Master's Degree Program in Smart Cities and its first graduates
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Session 1: Keynote speakers (you can read info about keynote speakers (/en/scsp2022/keynote-speakers)) | Main Hall

Chairman: Miroslav Svítek

9:15	Smart City 4.0: Designing a Smart Envelope of Infrastructures for Smart Cities <i>Eyal Yaniv (Bar-Ilan University)</i>
9:30	Smart City Taipei - Government Platform for Building Taipei as a Smart Living Lab <i>Shuo Yan Chou (National Taiwan University of Science and Technology)</i>
9:45	Prague Data Platform Golemio <i>Benedikt Kotmel (Operator ICT)</i>



Session 1: Keynote speakers (you can read info about keynote speakers (</en/scsp2022/keynote-speakers>)) | Main Hall

Chairman: Miroslav Svítek

10:00	Sustainable Mobility: Framework of a Smart City <i>Porie Saikia-Eapen (CIOB)</i>
10:15	Transportation Demand Management for a Smart City <i>Emmanuel Dommergues (International Association of Public Transport)</i>
10:30	Coffee Break

Session 2: Livable Cities and Covid-19 Impact | Main Hall

Chairman: Ira Saul Rubenstein

11:00	HPE Ezmeral: Hybrid Cloud Platform for data science and analytics workloads <i>Vlastimil Čudek (Hewlett Packard Enterprise)</i>
11:15	Smart City and the effects of the Paradigm Shift in Transportation on Spatial and Urban Planning in Times of Climate Change <i>Hermann Knoflachner (Vienna University of Technology)</i>
11:30	Elderly on-demand transport in the Czech Republic: A case study <i>Alena Rybičková (Czech Technical University in Prague)</i>
11:45	Impacts of COVID - 19 on Means of Transport Choice: Cars and Cyclists Monitoring <i>Aneta Matysková (Czech Technical University in Prague)</i>
12:00	Smart Airports – Balancing Queue Management and Anti-epidemic Measures <i>Peter Vittek (Czech Technical University in Prague)</i>
12:15	Quality assessment of airports - based on passengers' satisfaction <i>Patrik Hegyi (Budapest University of Technology and Economics)</i>
12:30	Lunch Break

Session 3: Smart Cities Modeling | Main Hall

Chairman: Ondřej Přibyl

13:30	BIM Applications for Smart Cities <i>SUDOP</i>
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Session 3: Smart Cities Modeling | Main Hall

Chairman: Ondřej Přibyl

13:45	A simplified method, targeted at transport forecasting agent based simulations, to enrich agent profiles with input for mode preferences <i>Sinziana Rasca (University of Agder)</i>
14:00	Application of Drone Video to Multi-intersection Facility Simulation Modeling <i>Shoaib Samandar (Institute of Transportation Research and Education)</i>
14:15	Tools for Mobility Analysis: What are the challenges and solutions for planning and operations of mobility services? <i>Magdalena Hykšová (Czech Technical University in Prague)</i>
14:30	Marginal energy consumption cost factors of battery electric buses <i>Péter Ákos Szilassy (Budapest University of Technology and Economics)</i>
14:45	Does PM10 influence the prediction of PM2.5? <i>Rashmi Choudhary (Indian Institute of Technology Roorkee)</i>
15:00	Coffee Break

Session 4: System Approach to Smart Cities Transformation | Main Hall

Chairman: Tomáš Horák

15:30	Smart "Digital Factory" - A Case Study on the Use of Drones in the Brandýs nad Labem Continental Facilities <i>Continental (Holger Gey)</i>
15:45	Powering City Mobility With On-Demand Transportation <i>CITYA (Dominik Janík)</i>
16:00	Management of Public Transportation Demand and Maximization of Operator Revenues using Car Sharing as a Supplement to Public Transport Systems <i>Summair Anis (University of Genoa)</i>
16:15	From Smart City sustainable development to Resiliency by design <i>Sergey Kozhevnikov (Czech Technical University in Prague)</i>
16:30	Vertical farms and smart cities – identification of common research areas, Tungsram's experience and vision in Central Europe <i>Klaudia Gabriella Horváth (University of Dunaújváros)</i>
16:45	Knowledge graphs for Smart Cities <i>Viktor Beneš (Czech Technical University in Prague)</i>



Session 5: Information and Data Processing | Gothic Cellar

Chairman: Csaba Csiszár

15:30	Digitalization and Modern Rail <i>Czech Rail Infrastructure Operator (Radek Volf, Jiří Pavel)</i>
15:45	Measurement of Air Pollution by Measurement of Traffic Density <i>Leon Rothkrantz (Delft University of Technology)</i>
16:00	Big Data Application for Urban Transport Solutions <i>Jiří Růžička (Czech Technical University in Prague)</i>
16:15	Model Implementation of the Algorithm for Price-Based Dynamic Parking Regulation <i>Kristýna Navrátilová (Czech Technical University in Prague)</i>
16:30	Assessing the feasibility of using eye-tracking technology for assessment of external HMI <i>David Lehet (Czech Technical University in Prague)</i>
16:45	Validation of EDR Data for the Purpose of the Forensic Expertise <i>Tomáš Kohout (Czech Technical University in Prague)</i>

17:00	Day 1 Conclusion Main Hall
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19:00	Symposium Social Event - Vltava River Cruise (by invitation only)
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**MAY 27, 2022**

10:00 - 12:00

H2020 Project STORM Workshop | Main Hall

Chairman: Tomáš Horák

- 10:00 – 10:15 STORM overview and progress
(VTT: Petr Hajduk, on-site presentation)
- 10:15 – 10:45 Future trends and analysis needs in freight and logistics – based on D2.1
(Fraunhofer: Jonathan Köhler/Clemens Brauer, on-line presentation)
- 10:45 – 11:15 Big Data in Enhancing the Modeling of Freight Transport Transitions – based on D3.1
(CTH: Wasim Shoman, on-site presentation)
- 11:15 – 11:45 How to model a European fast charging network for trucks, using synthetic road freight data
(Fraunhofer: Daniel Speth, on-line presentation)

10:00 - 12:00

Final conference of the project Road Map for Modernization of Road Transportation | Gothic Cellar

Chairman: Petr Bouchner

- registration form (</en/scsp2022/registration-road-transport>)

10:00 - 11:30

Poster Session | Gothic Corridor

Chairman: Jana Kuklová

Classification of non-personal data in autonomous vehicles*Miroslav Vaniš (Czech Technical University in Prague)***Application of Cybersecurity Approaches within Smart Cities and ITS***Jiří Brož (Czech Technical University in Prague)***Effective communication as a necessary part of rainwater management: Exploring the practice of Czech municipalities***Lucie Povolná (J. E. Purkyne University in Usti nad Labem)***Bike Sharing Prediction Using Seasonal Auto Regressive Integrated Moving Average***Ahmed Jaber (Budapest University of Technology and Economics)*

10:00 - 11:30

Poster Session | Gothic Corridor

Chairman: Jana Kuklová

Gravity Model in Smart Transport Planning*David Juřík (Czech Technical University in Prague)***Pilot Study of Using Google Traffic Data to Assess Conditions for Public Transport Operation on Urban Roads***Nikol Dousková (Czech Technical University in Prague)***ANPR data as a key source of traffic behavior information***Petr Richter (Czech Technical University in Prague)***Smart City Logistics: Recommendations for the City of Prague***Tomáš Horák (Czech Technical University in Prague)***Protection of personal data in autonomous vehicles and its data categorization***Michal Mlada (Czech Technical University in Prague)***Smart city as an opportunity towards urban transformation in a small city (Bucaramanga, case study)***Eduardo Carrillo (Universidad Autónoma de Bucaramanga)*

12:00

Day 2 Conclusion & Brunch with Duo Professores

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