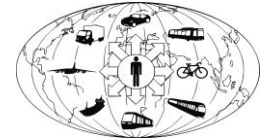




Department of Transport Systems,
Traffic Engineering and Logistics



**PROGRAMME OF
19TH SCIENTIFIC AND TECHNICAL CONFERENCE
TRANSPORT SYSTEMS
THEORY & PRACTICE
(TSTP2023)
ON-LINE, 18-19.09.2023**

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MEDIA PATRONAGE



Department of Transport Systems, Traffic Engineering
and Logistics at Faculty of Transport and Aviation
Engineering, Silesian University of Technology

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Priority Research Area Smart Cities and Future Mobility
of Silesian University of Technology

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DAY I OPENING

10:00 – 10:15 *Opening of the TSTP2023 Conference*

10:00 **Grzegorz Sierpiński**

Silesian University of Technology, Katowice, Poland

- **Welcome message**
- **About the Silesian University of Technology and Priority Research Areas**
- **About the TSTP Conference**

- **Opening of the TSTP2023 Conference**

SESSION 1.1

***PRACTICAL APPROACH TO MODELLING AND IMPLEMENTATION OF MODERN
TRANSPORT SOLUTIONS – invited speakers***

Chairman:

Grzegorz Sierpiński – Silesian University of Technology, Katowice, Poland

10:15 – 11:05 - *presentations*

11:05 – 11:15 - *discussion*

10:15 **Carmelo D’Agostino**

Lund University, Lund, Sweden

VIRTUAL REALITY AND SIMULATION AS A TOOL

10:40 **Rafał Kucharski**

Jagiellonian University in Kraków, Kraków, Poland

**FUTURE TRAFFIC EQUILIBRIA WITH MIXED AUTONOMOUS AND HUMAN
USERS**

DAY I
SESSION 1.2
PUBLIC TRANSPORT – CURRENT PROBLEMS AND ISSUES

Chairwoman:

Roberta Di Pace – University of Salerno, Fisciano, Italy

11:15 – 12:15 *- presentations*

12:15 – 12:30 *- discussion*

11:15 **Andrzej Kamiński**

Warsaw University of Technology, Warsaw, Poland

THE DIGITAL ECOSYSTEM IN A PUBLIC TRANSPORT COMPANY

11:30 **Grzegorz Dydkowski, Wiktoria Galecka, Anna Urbanek**

University of Economics in Katowice, Katowice, Poland

CONTRACTS OF TRANSPORT SERVICES PROVISION AS A FACTOR OF INCREASING THE EFFECTIVENESS OF THE URBAN PUBLIC TRANSPORT

11:45 **Aleksander Sobota, Anna Granà, Paulina Świerk, Elżbieta Macioszek**

University of Palermo, Palermo, Italy

Sustainable Mobility Center, Italy

Silesian University of Technology, Katowice, Poland

MONITORING OF THE IMPLEMENTATION OF THE EUROPEAN UNION'S SUSTAINABLE TRANSPORT DEVELOPMENT POLICY REGARDING THE USE OF LOW- AND ZERO-EMISSION FLEET ON THE EXAMPLE OF THE GÓRNOŚLĄSKA-ZAGŁĘBIOWSKA METROPOLIS (POLAND)

12:00 **Anna Urbanek**

University of Economics in Katowice, Katowice, Poland

MEASURING PUBLIC TRANSPORT AFFORDABILITY – COMPARATIVE ANALYSIS IN THE LARGEST EUROPEAN CITIES

DAY I
SESSION 1.3
DATA COLLECTION AND ANALYSIS

Chairwoman:

Elżbieta Macioszek – Silesian University of Technology, Katowice, Poland

12:30 – 13:15 - *presentations*

13:45 – 14:00 - *discussion*

12:30 **Mateusz Wójcik, Kinga Bazan**

The Centre for EU Transport Projects, Poland

**USE OF A BIG DATA TO CALIBRATE ROAD TRAFFIC ASSIGNMENT
STAGE IN THE NATIONAL TRANSPORT MODEL ZMR**

12:45 **Stefano de Luca, Facundo Storani, Francesca Bruno, Roberta Di Pace**

University of Salerno, Fisciano, Italy

**ATTITUDES AND PERCEPTIONS OF UNIVERSITY STUDENTS IN
MODELLING THE WILLINGNESS TO PURCHASE ELECTRIC VEHICLES
IN EMERGING MARKETS: THE ITALIAN AND ARGENTINIAN CASE
STUDIES**

13:00 **Alexander Kaiser, Olaf Czogalla, Mansour Abboud**

Institut für Automation und Kommunikation, Magdeburg, Germany

**DEVELOPMENT OF A CAMERA-BASED PARKING MONITORING SYSTEM
WITH AN AUTOMATIC PARKING SPOT IDENTIFICATION**

13:15 **Ireneusz Celiński**

Silesian University of Technology, Katowice, Poland

**SELECTED COMPONENTS OF THE COGNITIVE ARCHITECTURE IN
TRAFFIC SIMULATION PROCESS**

13:30 **Wiesław Pamuła, Tomasz Stenzel, Maciej Sajkowski**

Silesian University of Technology, Katowice, Poland

**ENERGY-EFFICIENT RADIO PLATFORMS FOR IMPLEMENTATION OF
NODES OF SENSOR NETWORKS**

DAY II
SESSION 2.1

PROBLEMS OF DEVELOPMENT OF TRANSPORT SYSTEMS

Chairwoman:

Emilia T. Skupień – Wrocław University of Science and Technology, Wrocław, Poland

10:00 – 11:00 **- presentations**

11:00 – 11:15 **- discussion**

10:00 **Zoltán Major, Róbert Horváth, Áron Szennay, Tomasz Witko, Cecília Szigeti**

Széchenyi University, Győr, Hungary

H - Planer Mérnökiroda Kft., Bátaszék, Hungary

Budapest Business School, Budapest, Hungary

Cracow University of Economics, Krakow, Poland

THE ECOLOGICAL FOOTPRINT OF EMBEDDED RAIL STRUCTURES

10:15 **Edyta Boratyńska-Karpiej, Paweł Engel**

Centre for EU Transport Projects, Poland

**MODERN TRANSPORT INFRASTRUCTURE AS PART OF CRITICAL
INFRASTRUCTURE**

10:30 **Przemysław Niewiadomski, Agnieszka Stachowiak**

University of Zielona Góra, Zielona Góra, Poland

Poznan University of Technology, Poznań, Poland

**META-CONCEPTS IN THE SUSTAINABLE PRODUCTION OF PARTS AND
TECHNICAL SUBASSEMBLIES OF AGRICULTURAL MEANS OF
TRANSPORT - AN ATTEMPT TO SPECIFY THE LEVEL OF
IMPLEMENTATION**

10:45 **Ireneusz Celiński, Grzegorz Sierpiński**

Silesian University of Technology, Katowice, Poland

LEVELS OF EVIDENCE IN TRANSPORT PROCESS RESEARCH

DAY II
SESSION 2.2
BEHAVIOR OF TRAVELERS – SELECTED PROBLEMS

Chairwoman:

Anna Granà – University of Palermo, Palermo, Italy

11:15 – 12:15

- presentations

12:15 – 12:30

- discussion

11:15

Mujahid Ali, Elżbieta Macioszek

Silesian University of Technology, Katowice, Poland

**RELATIONSHIP AMONG SOCIO-DEMOGRAPHIC CHARACTERISTICS,
ACTIVITY-TRAVEL PARTICIPATION, TRAVEL PARAMETER, PHYSICAL
ACTIVITY INTENSITY, AND HEALTH PARAMETERS**

11:30

Franco Filippi, Facundo Storani

University of Salerno, Fisciano, Italy

**INVESTIGATING THE IMPACT OF TRAFFIC CONTROL STRATEGIES IN
THE CCAM ENVIRONMENT**

11:45

Alexander Piatkowski, Marcin Staniek

Silesian University of Technology, Katowice, Poland

CHALLENGES FACING AUTONOMOUS VEHICLES

12:00

Ireneusz Celiński, Kamil Gózdź, Paweł Prusicki

Silesian University of Technology, Katowice, Poland

DIRECTIONS OF DEVELOPMENT OF MOUNTAIN TRICYCLES

12:30 – 13:00

- short break

DAY II
SESSION 2.3

DECISION SUPPORT METHODS AND TOOLS FOR TRANSPORT SYSTEMS

Chairman:

Aleksander Król – Silesian University of Technology, Katowice, Poland

13:00 – 14:15 *- presentations*

14:00 – 14:15 *- discussion*

13:00 **Nazanin Zare, Elżbieta Macioszek, Anna Granà**
University of Palermo, Palermo, Italy
Silesian University of Technology, Katowice, Poland
Sustainable Mobility Center, Italy

A HEURISTIC APPROACH TO ASSESS THE PERFORMANCE EFFICIENCY OF ROAD INTERSECTIONS IN URBAN ENVIRONMENTS FROM THE RESILIENCE PERSPECTIVE

13:15 **Marcin J. Klos, Paweł Prusicki, Kamil Gózdź**
Silesian University of Technology, Katowice, Poland

METHOD OF EVALUATING TOURIST TRAILS FOR POSSIBILITIES OF TRAVELING BY PEOPLE WITH DISABILITIES USING SPECIALIZED OFF-ROAD VEHICLE

13:30 **Emilia T. Skupień, Agnieszka A. Tubis, Mateusz Rydlewski**
Wroclaw University of Science and Technology, Wroclaw, Poland

IDENTIFICATION OF RISKS RELATED TO PASSENGER EXCHANGE SERVICE IN THE WATER TRAM STOP AREA ON THE EXAMPLE OF THE WATER TRAM OF THE WROCLAW AGGLOMERATION

13:45 **Paweł Zmuda-Trzebiatowski, Karolina Bar, Maciej Bińczak, Szymon Fierek, Marcin Kiciński, Wojciech Miechowicz, Piotr Sawicki**
Poznan University of Technology, Poznań, Poland

INFORMATION IN PUBLIC TRANSPORT SYSTEMS, BUILDING A CHAIN OF TRUST

DAY II
SESSION 2.4
TRANSPORT SAFETY

Chairwoman:

Anna Urbanek – University of Economics in Katowice, Katowice, Poland

14:15 – 15:00 *- presentations*

15:00 – 15:15 *- discussion*

14:15 **Maria Luisa Tumminello, Elżbieta Macioszek, Anna Granà, Tullio Giuffrè**

University of Palermo, Palermo, Italy

Sustainable Mobility Center, Italy

Silesian University of Technology, Katowice, Poland

University of Enna Kore, Enna, Italy

SAFETY AND OPERATIONAL ASSESSMENT OF COOPERATIVE DRIVING SYSTEMS ON ROUNDABOUTS

14:30 **Emilia T. Skupień, Agnieszka A. Tubis, Mateusz Rydlewski**

Wroclaw University of Science and Technology, Wroclaw, Poland

ESTIMATING THE CORRELATION BETWEEN FACTORS AFFECTING THE SAFETY OF PASSENGERS AT THE TRAM STOP

14:45 **Aleksander Król, Małgorzata Król**

Silesian University of Technology, Katowice, Poland

Silesian University of Technology, Gliwice, Poland

MODELLING THE DISTRIBUTION OF TRANSPORT POLLUTANTS IN A NATURALLY VENTILATED ROAD TUNNEL

15.15 – 15.30

Closing of the TSTP2023 Conference

20th Scientific and Technical Conference
"Transport Systems Theory & Practice" (TSTP2024)

tstp.syskonf.pl

Details soon!

