



BYDGOSZCZ UNIVERSITY  
OF SCIENCE AND TECHNOLOGY



## **EcoSET** Ecology, Science, Education and Technology.

### Ways to Internationalise the Bydgoszcz University of Science and Technology in Areas of Research and Education



## **Faculty International Seminar Bydgoszcz October the 25-29th, 2021**

#### **Steering committee**

Jan Kempa, Professor and Chair, Faculty of Civil and Environmental Engineering and Architecture, Bydgoszcz University of Science and Technology

Marcin Karwasz, PhD, Head of the Department of Traffic Engineering, Transport and Geotechnics, Bydgoszcz University of Science and Technology

Bertha B. Santos, Professor, University of Beira Interior

Jorge Gonçalves, Professor, University of Beira Interior

#### **Organising committee**

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<b>Research Team Members (PBS)</b>	<b>Research Team Members (UBI)</b>
Jan Kempa, Professor Jacek Chmielewski, PhD Marcin Karwasz, PhD Radosław Klusek, PhD Damian Iwanowicz, PhD Paulina Olenkowicz-Trempała, MSc Damian Wiśniewski, MSc	Bertha Santos, Professor Jorge Gonçalves, Professor Pedro G. Almeida, Professor Isabel Matias, MSc (PhD student) Olga Gonçalves, MSc (PhD student) Ianca Feitosa, MSc (PhD student) André Nogueira, MSc Pollyanna Lucena, MSc student Sandro Ferreira, MSc student Pedro Gavinhos, MSc student

# Agenda

## Monday, 25<sup>th</sup> October

10h30 Welcome coffee (Introduction Prof. M. Dobiszewska)

10h45 Current status of developed and ongoing collaboration

11h15 Prof. J. Kwiecień - **Spatial variability of carbon monoxide pollution on the example of the city of Bydgoszcz**

11h45 Discussion

## Tuesday, 26<sup>th</sup> October

10h30 Welcome coffee

11h00 Prof. M. Dutkiewicz – Dean of the Faculty of Civil engineering and environmental engineering and architecture

12h00 Presentation of WMCAUS 2021 joint articles

- **Mobility in Transportation Surveys**

Paulina Olenkowicz-Trempała, Jacek Chmielewski, Jan Kempa

*Faculty of Civil and Environmental Engineering and Architecture, UTP University of Science and Technology in Bydgoszcz, Poland*

Aleksander Sobota

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

Bertha Santos, Jorge Gonçalves

*Department of Civil Engineering and Architecture, University of Beira Interior, Covilhã, Portugal; CERIS - Instituto Superior Técnico, Universidade de Lisboa, Portugal; CITTA - Faculty of Engineering of the University of Porto, Portugal*

- **Low-Cost Geographic Information System for Municipal Road Signs Management in Depopulated and Low-Density Areas**

Olga Gonçalves

*Belmonte Municipality, Portugal*

Jorge Gonçalves

*Department of Civil Engineering and Architecture, University of Beira Interior, Covilhã, Portugal; CITTA - Faculty of Engineering of the University of Porto, Portugal*

Jacek Chmielewski, Paulina Olenkowicz-Trempała

*Faculty of Civil and Environmental Engineering and Architecture, UTP University of Science and Technology in Bydgoszcz, Poland*

- **Transportation Network Spatial Analysis to Measure Pedestrian Suitability. The Case of Hilly Cities**

André Nogueira, Bertha Santos, Jorge Gonçalves

*Department of Civil Engineering and Architecture, University of Beira Interior, Covilhã, Portugal; CERIS - Instituto Superior Técnico, Universidade de Lisboa, Portugal; CITTA - Faculty of Engineering of the University of Porto, Portugal*

Jan Kempa, Jacek Chmielewski

*Faculty of Civil and Environmental Engineering and Architecture, UTP University of Science and Technology in Bydgoszcz, Poland*

- **Calming Traffic in Historic City Centers - A Case Study**

Andrzej Zalewski, Jacek Chmielewski, Jan Kempa

*Faculty of Civil and Environmental Engineering and Architecture, UTP University of Science and Technology in Bydgoszcz, Poland*

Bertha Santos, Jorge Gonçalves

*Department of Civil Engineering and Architecture, University of Beira Interior, Covilhã, Portugal; CERIS - Instituto Superior Técnico, Universidade de Lisboa, Portugal; CITTA - Faculty of Engineering of the University of Porto, Portugal*

12h00 Discussion

## Wednesday, 27<sup>th</sup> October

10h00 Welcome coffee

10h15 Articles submission to scientific journals indexed to Scopus and Web of Science.

Articles:

- **Drivers view on the influence of atmospheric conditions on road traffic safety**
- **The influence of weather conditions on road traffic safety**

(common articles of the Portuguese and Polish side)

11h15 Joint applications for scientific cooperation projects

**Scientific Cooperation Agreement between Portugal and Poland – status**

12h00 Discussion

## Thursday, 28<sup>th</sup> October

10h00 Welcome coffee

10h15 Transportation group, Department of Civil Engineering and Architecture of the University of Beira Interior: work in progress

- **Road network suitability assessment for soft mobility: multi-criteria model and automated tools**

Bertha Santos, Pollyanna Lucena, Sandro Ferreira

- **Public transport accessibility index to large trip attractors in urban areas: case study - UBI**

Jorge Gonçalves, Rafael Santos

- **Application of unmanned aerial systems in road pavement condition assessment**

Bertha Santos, Pedro G. Almeida, Ianca Feitosa, Pedro Gavinhos

11h15 Bydgoszcz University of Science and Technology

- **Concept of the LAST MILE of freight on the city road network for the Bydgoszcz Logistics Hub**

M. Karwasz

- **Application of data from dynamic vehicle mass measurement stations on the example of experiences in the USA**

J. Chmielewski

12h00 Discussion

## Friday, 29<sup>th</sup> October

10h00 Welcome coffee

10h15 Planning Future Collaborations – Brainstorming

11h30 Closing