Good Practices
in the CEEPUS Network BG-1103

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Coordinator of BG-1103

CEEPUS network coordinator

BG-1103-08-2324

Modelling, Simulation and Computer-aided Design in Engineering and Management

http://ceepusmodcad.ubt-uni.net/

2023/2024: 43 partners from 16 countries
5 silent industrial partners

Diverse activities – Summer schools, conferences (ex. IWSSIP'2022)

New Joint Doctoral Program "Modelling, Simulation and Computer-aided Design in Engineering and Management"
Flexible course

Galia Marinova, TU-Sofia, CEEPUS Partner Conference - Sept 25, 2024, Budapest, Hungary

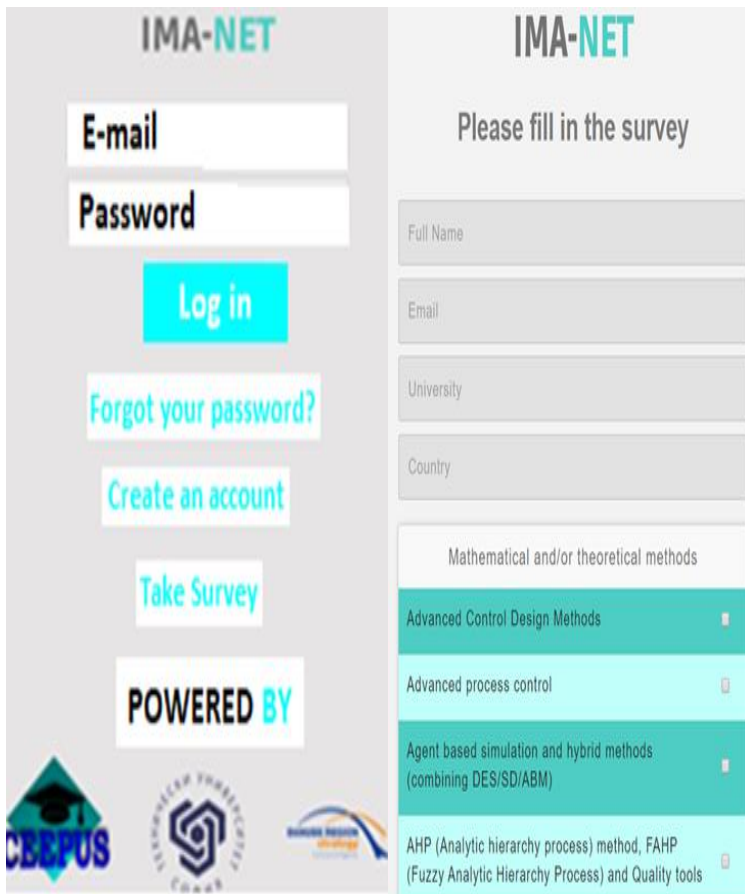# CEEPUS COORDINATORS TOUR

Steps in the tour:

- **University "Alexander Moisiu", Durres, Albania**
- **UBT, Pristina, Kosovo**
- **Pecs, Hungary**
- **US and UES, Sarajevo and Jahorina, BiH**
- **University North, Varazdin, Croatia**
- **Palacky, Olomouc, Czech Republic**
- **UEiK, Katowice, Poland**
- **University of Nis, Faculty of Electronics, Nis, Serbia**
- **University of Maribor, FERI, Slovenia**
- **Graz University of Technology, Graz, Austria**
- **Technical University of Sofia, Sofia, Bulgaria, CEEPUS Coord.**
- **Technical University of Moldova, Chisinau, Moldova**
- **University of Montenegro, Podgorisa, Montenegro (virtual)**
- **Slovakian University of Technology in Bratislava, Bratislava, Slovakia**
- **Transilvania University of Technology, Brasov, Romania**
- **Polytechnic University of Bucharest, Romania**
- **Mother Teresa University, Skopje, North Macedonia (Tetovo, Shtip – 6 faculties).**
- **University of Kragujevac, Kragujevac, Serbia**
- **University of Pannonia, Veszprem, Hungary**

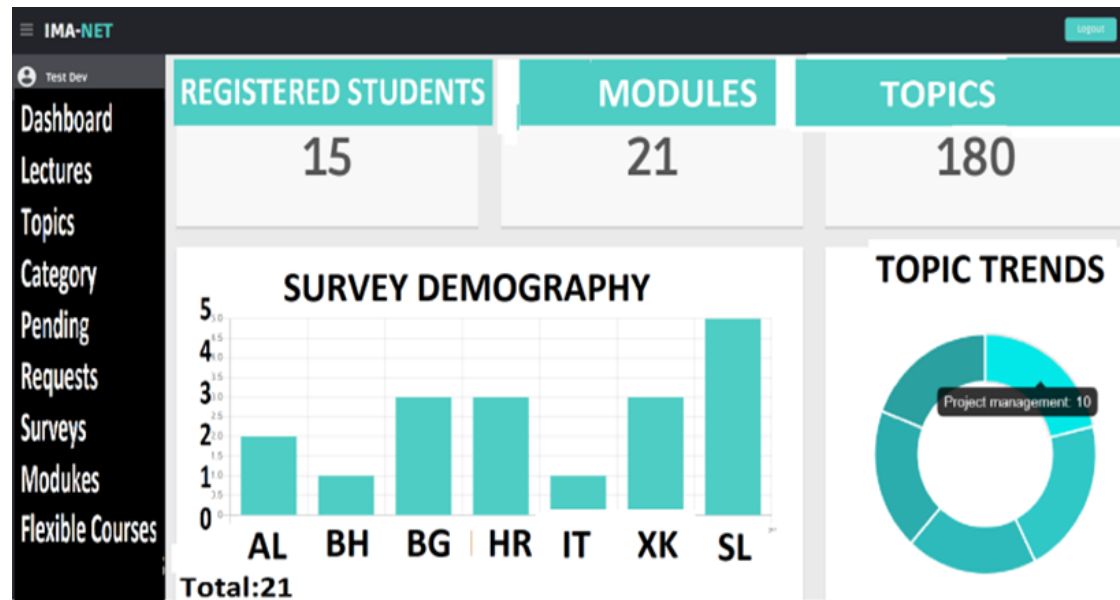**I understood the potential of the region for development and prosperity through cooperation.**

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we created an instrument

IMA-NET: Innovative e-Management Platform for Academic Network within CEEPUS link: http://ima-net.ubt-uni.net/survey

Login and Web page of the Survey in IMA-NET Dashboard

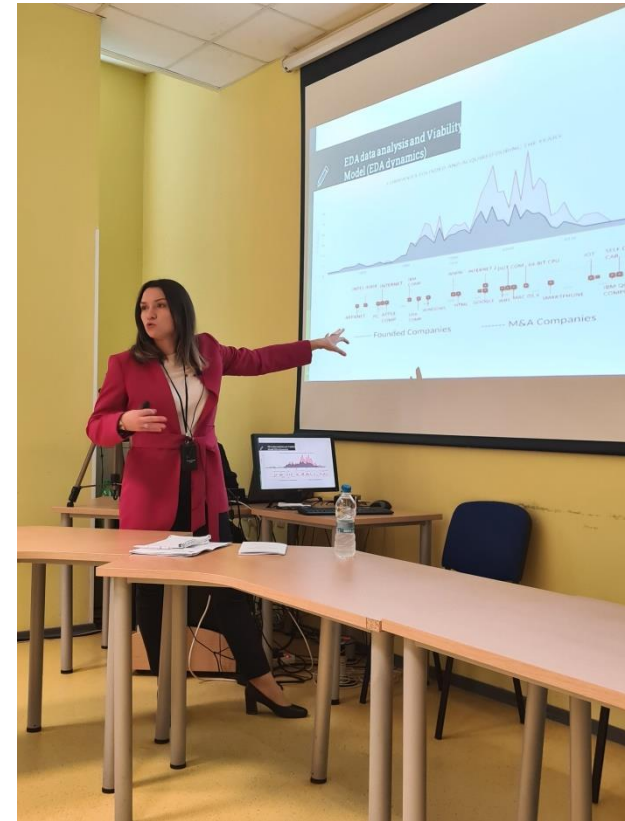**Optimize teaching proposals, mobility usage, Perform and support multiple surveys. Developed by my doctoral student Krisel Tola**

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Joint Doctoral Program

2 primary institutions TU-Sofia and IICT-BAS
12 doctoral students, one of them graduated in 2022
in TU-Sofia, one in IICT-BAS in 2024
4 students are preparing their defense

The network developed a joint doctoral program
and doctoral students are strongly involved in the
projects, publishing joint papers, attending Special
sessions to conferences organized in the CEEPUS
region.

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CEEPUS SUMMER SCHOOL
On Advanced Communications and global impact
Graz University of Technology in Graz, Austria,
6-15 July 2023
In parallel with conference CONTEL'2023

- **5 guest professors**
- **24 students from 11 countries**
- **2 Austrian companies**
- **KOHS, Vienna, Austria**

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CEEPUS Summer School Modelling and simulation of Advanced Communications and Global Impact, Maribor, Slovenia 02-13 July 2024
https://urbanify2024.feri.um.si/

11 guest professors
26 students from 13 countries
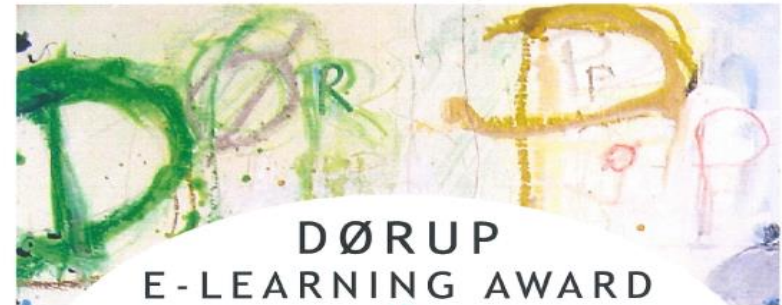**Slovenian companies**

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International Recognition

CEEPUS Network CIII-BG-1103-03-1819, "Modelling, Simulation and Computer-aided design in Engineering and Management"

Recognition on EUNIS congress in Norway in June 2019.

Looking forward! New projects, cooperation with business are ahead…

DØRUP
E-LEARNING AWARD

FINALIST IN
THE EUNIS DOERUP E-LEARNING AWARD 2019

PROJECT
Impact of University Networking on Students' Mobility and Motivation

by
Galia Marinova

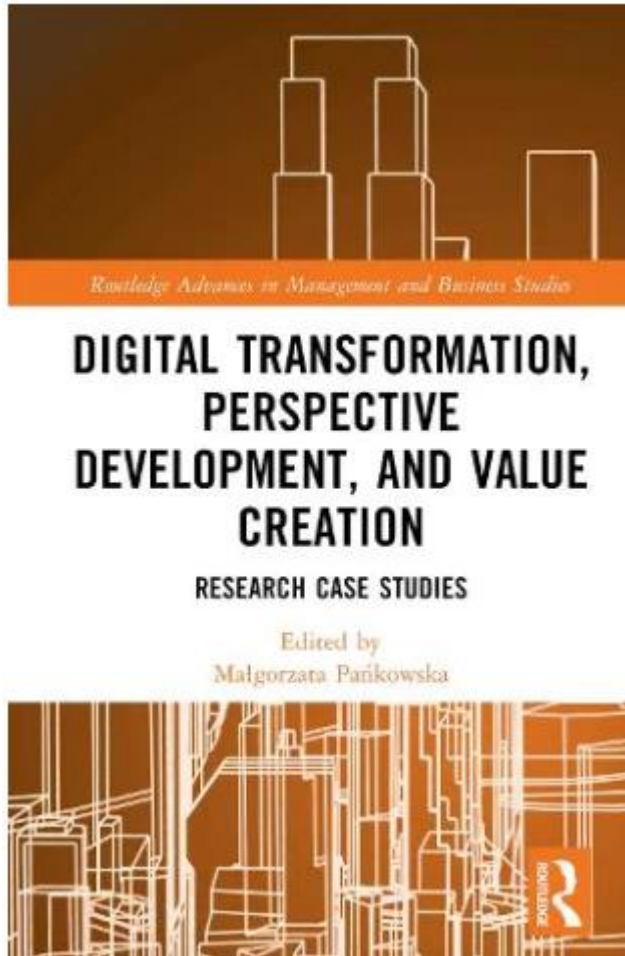Mads Ronald Dahl
Chair of EUNIS Doerup E-learning Award

Painted by Maj Dørup

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Paper dedicated to the good practices in BG-1103

Scientific Paper Dedicated To The CEEPUS Network BG1103:

G Marinova, K Tola , Innovations In A CEEPUS Academic Network And Their Impact On Management Effectiveness And Research Achievements, Digital Transformation, Perspective Development, And Value Creation, Pp.3-22, Taylor&Francis, 2024

Projects generated in BG 1103

Erasmus+ **bilateral** agreements – more than 15

Erasmus+ Capacity building in Higher Education (**CBHE**) IoT-ECO project focusing on technology implementation for green transformation in the Western Balkans,

Several **NATO Science for Peace Advanced Workshop** projects focused on:
- overcoming crises (Moldova),
- maritime monitoring and strengthening resilience in maritime critical infrastructures (Marocco)
- cybersecurity,
- promoting diversity and inclusion, etc.(Germany)

Erasmus+ K220 **CYBERCITY** A practical approach to teach and learn cybersecurity in smart cities, starting 2023, **KA220-HED - Cooperation partnerships in higher education.** Partners from Italy and Spain.
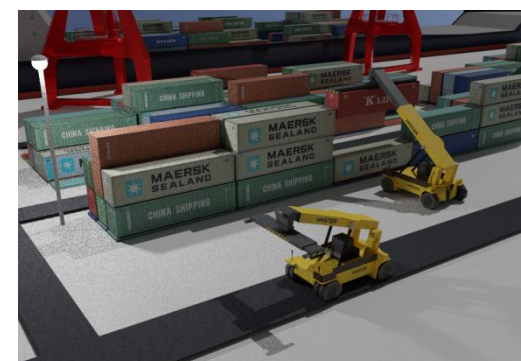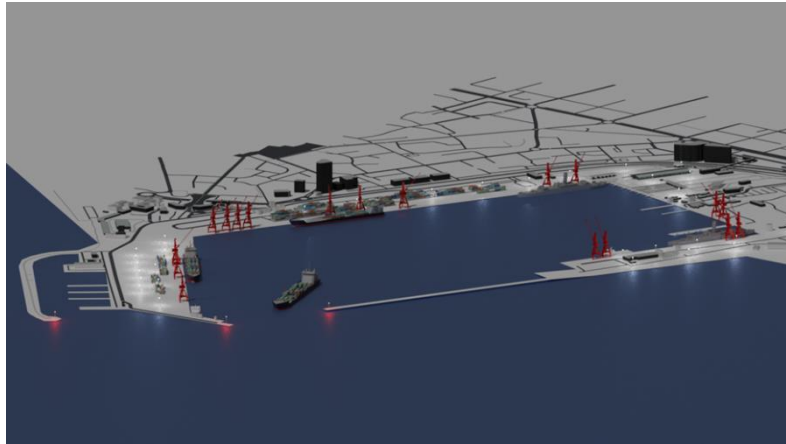
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IoT-ECO

Erasmus+ Capacity Building Project in Higher Education

IoT Green Transformation for Academic Society and Business Oriented Ecosystem in Western Balkans IoT-ECO
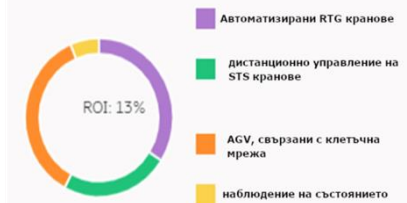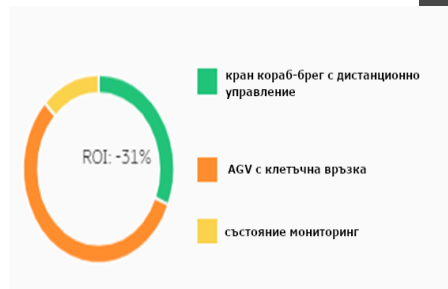
- **IoT Hubs in partner HEIs**

- **Teaching materials, new courses and modules on IoT and Green transformation**

- **Green transformation ecosystem model of the Port of Durres as a virtual prototype made available on the IoT-ECO hub.**
- **Green transformation ecosystem model of the university campuses UBT in Kosovo and UoM in Montenegro**

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3D Digital model of the port of Durres

Ericsson calculator for a Smart port

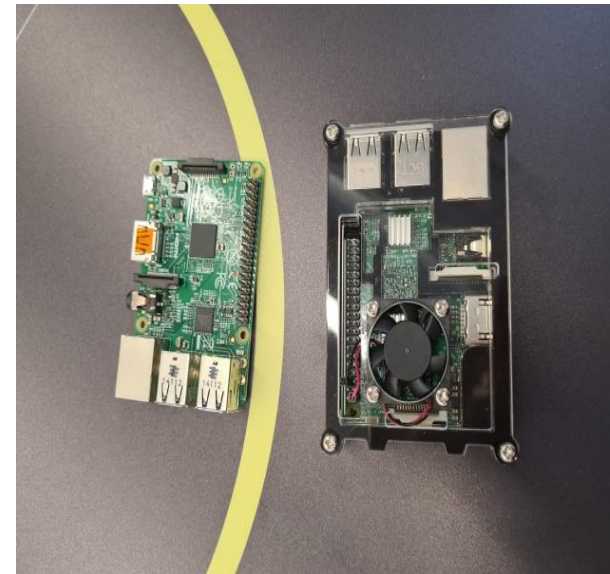**Evaluation of the ROI for different scenarios for IoT implementation in a port**

Angel Arsov,
Manjola Zeneli

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Cybercity
A practical approach to teach and learn cybersecurity in Smart cities

University of Sannio, Benevento, Italy

Technical University of Sofia, Bulgaria,

University of Valencia, Spain

Perlatecnica, Naples, Italy

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Prototypes to model the Smart city, emulate cyberattacks and plan cybersecurity

Based on ST Microelectronic devices, Roseberry Pie, etc.

Software is currently developed to control the autonomous cars, the traffic light system, the cyberattacks, and the cyberprotection...

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thank you!

Any questions?

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