International Conference on Smart and Innovative eNERGY management

26 – 28 September 2023

Institute Mihajlo Pupin, Belgrade, Serbia

institute MIHAILO PUPIN

Capacity building in Smart and Innovative eNERGY management

This project has received funding from
the H2020 programme of the European Union under GA No. 952140

Programme Overview

26/09/2023 at 11:00	Opening Welcome to the Institute Mihajlo Pupin
26/09/2023 at 11:20	Keynote I (prof. Stergios Vakalis)
26/09/2023 at 11:50	Panel Discussion I
26/09/2023 at 14:00	Session I
27/09/2023 at 11:00	Session II
27/09/2023 at 14:00	Session III
28/09/2023 at 11:00	Keynote II (prof. Maria-Esther Vidal)
28/09/2023 at 11:30	Session IV

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Programme Day 1

26/09/2023 at 11:00	Opening Welcome to the Institute Mihajlo Pupin
26/09/2023 at 11:20	Keynote I (prof. Stergios Vakalis)
26/09/2023 at 11:50	Panel Discussion I

Session I: Smart Grids	
I-1	Johannes Stöckl **Introduction to the Session with a Presentation of the Austrian Institute of Technology**
I-2	Jovana Gluščević, Žarko Janda and Jasna Dragosavac **Comparison of the response of grid forming and grid following inverters connected to a real grid**
I-3	Florian Strebl and Bharath-Varsh Rao **Impact of large-scale Deployment of Energy Communities on Distribution Grids**
I-4	Dayanne Peretti Correa, Luis Miguel Blanes Restoy, Paulo Lissa and Marcus Keane **Clustering Analysis to Support Demand Response Programs**
I-5	Patxi Hernandez, Nekane Hermoso and Valentina Janev **Towards Positive Energy Districts: Data Requirements and Use of Tools for Development of Energy Transition Scenarios**
I-6	Luka Ivanović, Djordje Stojić, Slavko Veinović, Dušan Joksimović, Jasna Dragosavac and Ilija Klasnić **Voltage Stability of Microgrid with Grid-Connected Wind Farm**
I-7	Valentina Timčenko and Slavica Boštjančič Rakas **Cyber Security Issues of Cloud-based Dynamic Line Rating**
16:30 End of Session I	

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Programme Day 2

Session II: Energy Management Systems	
II-1	Branislav Dobrosavljević **How to Ensure Cyber Security Deep in Your Supply Chain**
II-2	Željko V. Despotović, Ilija R. Stevanović, Jovan Šumarac and Aleksandar Rodic **Hybrid and Uninterruptible Power for Irrigation on Agriculture Smart Land**
II-3	Marija Radmilović, Uroš Ilić, Željko Despotović, Jelena Kljajić, Jovan Šumarac, Aleksandar Pavlović, Predrag Đešnić **Sustainable and Automated Production Process of Seedlings Using Robotic Systems**
II-4	Gavin Larkin, Luis Miguel Blanes Restoy and Marcus M. Keane **Simulation-based Evaluation of Air-source Heat Pump Retrofit to Phase-out Condensing Gas Boilers. Case Study of Campus Building In Ireland**
II-5	Anđela Marković, Valentina Janev, Nikola Tomašević and Marko Batić **Approach to Energy System Modelling for Supporting Decarbonization Scenarios in Energy Communities**
II-6	Igor Jovanović, Marko Jelić and Nikola Tomašević **Multi Objective Energy Management System and Sizing Optimization with Load Shifting**
13:00 End of Session II	

Session III: Building Energy Management Systems	
III-1	Marcus M. Keane **Introduction to the Session with a Presentation of the University of Galway**
III-2	Luis Miguel Blanes Restoy, Dayanne Peretti Correa and Marcus M. Keane **Simulation-based Commissioning of Control Loops for Heat Pump Integration and High Temperature Systems**
III-3	Mariya Chukkiriyan Joy and Marcus Keane **Energy Flexibility Assessment for Buildings in Ireland**
III-4	Thi Kim Bich Pham, Bharath Varsh Rao and Wilhelm Süßenbacher **Peer-to-peer Energy Market Incentivizing Energy Efficiency for Local Energy Communities in Austria**

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III-5	Mojgan Sami and Francisco Sierra **The Evolution of Heat Transfer Coefficient (HTC) Calculation Methods: A Critical Analysis**
III-6	Zhuoqun Sun, Francisco Sierra and Colin Booth **Real-time Occupancy Estimation Using Carbon Dioxide Concentration in Higher Education Institutions Buildings**
III-7	Spiros Chadoulos, Sotirios Athanasoulias, Stelios Kalogridis, Nikolaos Ipiotis, Odyssefs Diamantopoulos Pantaleon, Iordanis Koutsopoulos and George C. Polyzos **Energy Optimization of Building IoT Infrastructures in A Stratified Way**
16:30 End of Session III	

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Programme Day 3

28/09/2023 at 11:00	Keynote II (prof. Maria-Esther Vidal)
28/09/2023 at 11:30	Session IV

Session IV: Knowledge Management and ICT Tools	
IV-1	Enrique Iglesias, Ahmad Sakor, Philipp D. Rohde, Maria-Esther Vidal and Valentina Janev **KatanaG: Fragmenting Data Strategies to Enhance Knowledge Graph Creation from Large Datasets**
IV-2	Miloš Nenadović **Leveraging APIs and Knowledge Graphs for Efficient Data Access and Interoperability in the Energy Domain**
IV-3	Óscar Cabrera Redondo, Mónica Aragüés Peñalba and Sara Barja-Martinez **Medium-term Electrical Demand Forecasting of Residential Activity**
IV-4	Saša Mitrović and Neven Vrček **Automated Machine Learning Methods for Efficient Prediction Of Carbon Dioxide Emissions In Building Sector**
IV-5	Lazar Berbakov, Valentina Janev, Marko Jelić, Dea Pujić and Nikola Tomašević **Towards a SGAM-Compliant Platform for NextGeneration Integrated Energy Services**
13:30 End of Session IV	

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From/To Airport

Taxi: http://www.beg.aero/en/strana/8871/from-belgrade-airport

It is strongly recommended to contact the city service *TAXI INFO* desk, located in the baggage claim area in order to get a voucher which will enable you the fixed rate from airport to the city center (~€30). The same price will hold for the hotels in the city center and for the Institute Mihajlo Pupin.

Public transport:

http://www.beg.aero/en/strana/8811/bus

There are regular buses going from the airport to the city center. However, due to reconstruction work at the airport, we strongly recommend booking your transfer in advance via your accommodation/hotel.

Recommended Hotels

- Holiday Inn Express Belgrade, https://www.hiexpress.com

From/To Institute

The Institute can be reached form the city center:

- By public transportation: Use the bus **line 65**, in the direction **Zvezdara** and take off at station **"Institut Mihajlo Pupin"** which is at the Institute doorstep. https://www.planplus.rs/gradski-prevoz/beograd/autobus/65/A/213

Price: (around €1)

- By taxi: From the city center, using the taxi stand near **Terazije Square** (close to the hotel Moskva).

Price: (~€7-€10)

From Holiday Inn Express Belgrade/To Institute

- By public transportation: Use the bus **line 65**, in the direction **Zvezdara** and take off at station **"Institut Mihajlo Pupin"** which is at the Institute doorstep.

  https://www.planplus.rs/gradski-prevoz/beograd/autobus/65/A/213

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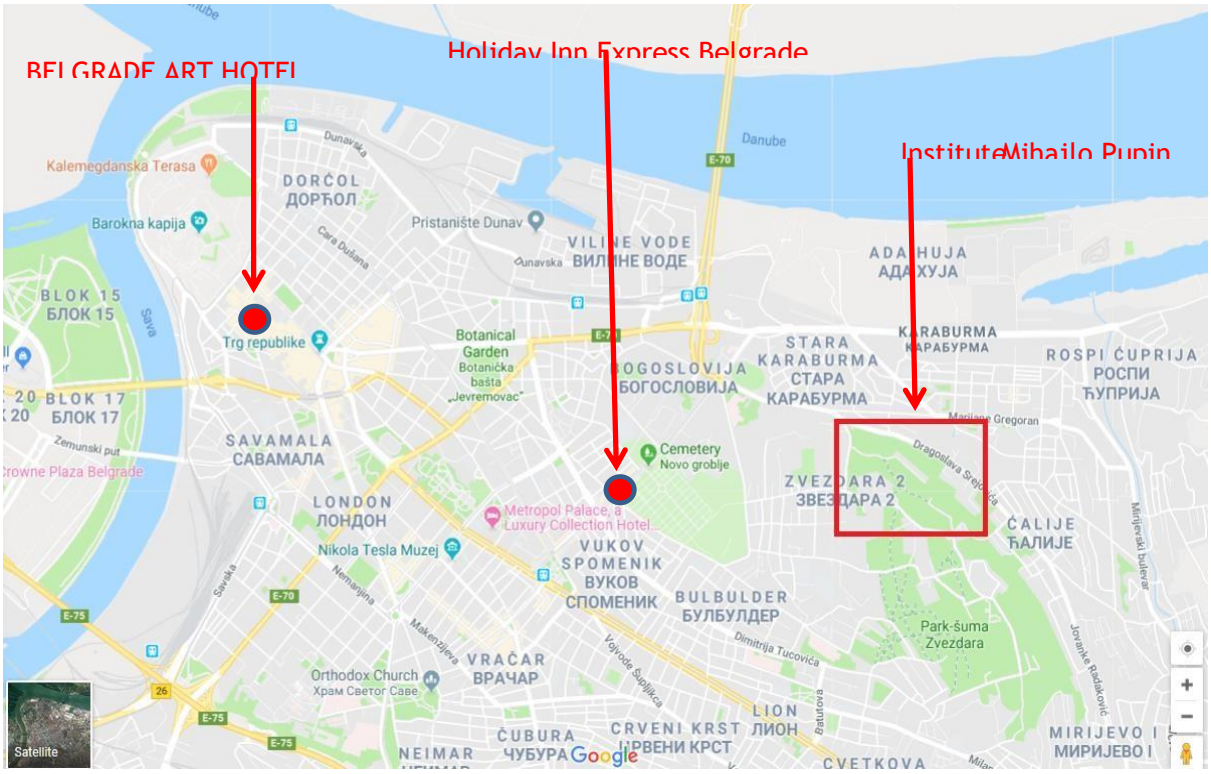

Internet access

Eduroam is available. For those without Eduroam account, another WiFi network will also be accessible.

For sightseeing

For useful information regarding Belgrade cultural/entertainment offer please visit: http://www.tob.rs/en/index.php

Or download **Android App** which will provide you some interesting sightseeing information (available in English): https://play.google.com/store/apps/details?id=com.hub.bgtalking

Climate

For more details please visit http://www.serbia.climatemps.com/

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Visa requirements

Serbia is an EU candidate and visas are not required for EU citizens. All travelers are advised to have a passport to enter Serbia, although EU citizens can enter Serbia with an ID card. Some citizens may need an appropriate visa to visit Serbia. For more information on the visa regime for entering Serbia please check the information at the Ministry of Foreign Affairs of the Republic of Serbia's website: http://www.mfa.gov.rs/en/consular-affairs/entry-serbia/visa-regime.

Other

The Republic of Serbia is not using the Euro currency, but there are many exchange offices (approved by the Central Bank of Serbia) throughout the city. To check the current exchange rates please visit the official site of the National Bank of Serbia: http://www.nbs.rs/internet/english/index.html. Local currency (Serbian dinar – RSD) can be withdrawn from ATMs.

VISA/Master/AMEX cards are generally accepted everywhere, except in small shops.

International phone code for Serbia: +381

International call prefix: 00 (+ sign is also usually supported)

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