



UPC-UWM Joint Workshop

An example of interuniversity cooperation

Date: Wednesday, September 14th, 2022

Place: Face to face: EPSEB (Room 0.4), UPC, Dr. Marañón, 44-50, 08028, Barcelona

Online: Google Meet link will be distributed to the interested people

PROGRAMME

09:45 *Opening and Introduction*

PhD Carles Serrat, Dept. of Mathematics, Barcelona School of Building Construction, Universitat Politècnica de Catalunya-BarcelonaTECH, Barcelona, Catalonia, Spain

09:50 *Thermal comfort in energy-efficient buildings. Application of renewable energy sources in HVAC systems of Polish climatic conditions*

Dr. Eng. Aldona Skotnicka-Siepsiak, Dept. of Building Engineering, Institute of Geodesy and Civil Engineering, Faculty of Geoengineering, University of Warmia and Mazury in Olsztyn, Poland

10:10 *Laser scanning and reverse engineering of historic buildings*

Dr. Eng. Joanna Pawłowicz and **Dr. Eng. Aldona Skotnicka-Siepsiak**, Dept. of Building Engineering, Institute of Geodesy and Civil Engineering, Faculty of Geoengineering, University of Warmia and Mazury in Olsztyn, Poland

10:30 *Optical Flow Method for Measuring Deformation of Structure*

Dr. Eng. Marcin Bujko, Department of Building Engineering, Institute of Geodesy and Civil Engineering, Faculty of Geoengineering, University of Warmia and Mazury in Olsztyn, Poland

10:50 *Models and foundations of precise satellite positioning*

Dr. hab. Eng. Sławomir Cellmer, Dept. of Geodesy, Institute of Geodesy and Civil Engineering, Faculty of Geoengineering, University of Warmia and Mazury in Olsztyn, Poland

11:10 *Machine learning algorithms in the classification analysis based on satellite imagery*

Dr. Eng. Michał Bednarczyk, Department of Geodesy, Institute of Geodesy and Civil Engineering, Faculty of Geoengineering, University of Warmia and Mazury in Olsztyn, Poland

11:30 *Coffee Break*

12:00 *So far cooperation between UWM and UPC in the context of joint research projects*

Dr. Eng. Jacek Rapinski, Director of the Institute of Geodesy and Civil Engineering, Faculty of Geoengineering, University of Warmia and Mazury in Olsztyn, Poland

12:15 *The Innoglobo program and research in existing buildings functionality*

PhD Carles Serrat and **Verónica Royano**, Dept. of Mathematics and Dept. of Architectural Technology, Barcelona School of Building Construction, Universitat Politècnica de Catalunya-BarcelonaTECH, Barcelona, Catalonia, Spain

12:30 *ERASMUS+ program and academic cooperation prospects*

Dr. Eng. Marcin Bujko, Department of Building Engineering, Institute of Geodesy and Civil Engineering, Faculty of Geoengineering, University of Warmia and Mazury in Olsztyn, Poland

12:45 *Experiencing EPSEB with an Erasmus*

PhD Laia Haurie, Dept. of Architectural Technology and Assistant director of International Relations and head of studies for master's degrees Barcelona School of Building Construction, Universitat Politècnica de Catalunya-BarcelonaTECH, Barcelona, Catalonia, Spain

13:00 *Closing*

PhD Carles Serrat, Dept. of Mathematics, Barcelona School of Building Construction, Universitat Politècnica de Catalunya-BarcelonaTECH, Barcelona, Catalonia, Spain