

Professor **MARIO VAŠAK**

Institution: University of Zagreb, Faculty of Electrical Engineering and Computing

Short biography and experience:

Mario Vašak is a full professor at the Department of Control and Computer Engineering, University of Zagreb Faculty of Electrical Engineering and Computing and he is heading its Laboratory for Renewable Energy Systems (LARES). His research interests are in the domain of dynamic systems predictive control with applications to systems from the low-carbon energy sector. He has designed the concept of hierarchical and modular energy management in buildings with integrated microgrids for enabling their economically optimal interoperation. He coordinated the Interreg Danube project 3Smart: Smart Building – Smart Grid – Smart City (2017-19) dealing with optimal and model predictive control for buildings and their interconnection with grids, including technical and legal aspects. Currently he is involved in three international and ten national projects related to application of predictive control in buildings and infrastructure. He authored more than 20 papers in international scientific journals and overall more than 100 internationally reviewed papers, with more than 500 WoS citations. He served as president of Control Systems Chapter of the IEEE Croatia Section in period 2014-2017. Research Fields:

Lecture title: **Renewable Energy Atlas and Optimization Tool for Power-to-Gas Hubs – case Croatia**

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