Edmund Widl
Senior Scientist
Power and Renewable Gas Systems



Edmund Widl received an M.Sc. and Ph.D. in Physics from TU Wien, Vienna, Austria, in 2004 and 2008 respectively. From 2003 to 2011 he worked for the Institute of High Energy Physics (HEPHY), Vienna, Austria, on several projects for the CMS Collaboration, one of the particle physics experiments at the Large Hadron Collider (LHC) at CERN, Geneva, Switzerland.

In 2011 he joined the Austrian Institute of Technology (AIT), where he currently works in the research field Power System Digitalization on topics related to cyber-physical energy systems (CPES). His research includes digital twins, online services & platforms, and modeling and simulation. A focus is the analysis and design of multi-domain energy systems, especially hybrid thermal-electrical distribution grids. A substantial part of his work is dedicated to the development of new tools for simulation-based assessments of such systems, focusing on methods and tools that are compliant to the Functional Mock-up Interface specification. Apart from work directly related to applications and tool development he is also actively promoting the topic of CPES, for instance as co-organizer and publication chair of the MSCPES workshop series.

Employment

Senior Scientist
Power and Renewable Gas Systems
AIT Austrian Institute of Technology GmbH
1 Jan 2024 → present

Research outputs

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