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Document Version
Final published version

Citation (APA)
Palensky, P., Srivastava, A., & Widl, E. (2023). Message from the Chairs. *11th Workshop on Modelling and Simulation of Cyber-Physical Energy Systems, MSCPES 2023 - Proceedings, Held as part of the Cyber-Physical Systems and Internet-of-Things Week*. https://doi.org/10.1109/MSCPES58582.2023.10123422

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2023 11th Workshop on Modeling and Simulation of Cyber-Physical Energy Systems (MSCPES) | 979-8-3503-3682-5/23/$31.00 ©2023 IEEE | DOI: 10.1109/MSCPES58582.2023.10123422







Message from the chairs

Automation and the digital transformation have become important factors in the energy sector, as modern energy systems increasingly rely on communication and information technology to combine smart controls with hardware infrastructure. With the emergence of cyber-physical systems (CPS) as a trans-disciplinary field, such modern energy systems can be classified as cyber–physical energy systems (CPES), integrating the related research and development within a broader scope.

An important aspect of the research and development related to CPS is to bridge the gap between the traditional engineering domains and computer science. This is especially true for CPES, where the related engineering domains have in the past come up with proven and reliable methods for designing even large and complex systems. However, existing modeling and simulation tools still struggle to cover all aspects of CPES. Hence, a combination of universal modeling languages and established, domain-specific tools (such as grid simulators and telecommunication simulators) is necessary. New methods, tools and algorithms are needed that are compact, computationally inexpensive, potentially self-organizing and intrinsically stable if applied to real energy systems.

The first workshop on modeling and simulation of CPES in 2013 in Berkeley showed that a surprisingly diverse group of people and organizations with quite different backgrounds are working on these challenges. 2014 we affiliated for the first time with CPS Week in Berlin to join the CPS community. This year celebrates the 11th installment of the workshop. Again, the workshop is held as part of CPS-IoT Week – this time in San Antonio, Texas – as a face-to-face meeting for the first time in 4 years. We look forward in good spirit to a fruitful, interactive, and engaging workshop that will further stimulate this vibrant community with common interests.

We thank the program committee and reviewers for their excellent service and, most importantly, we thank the authors and presenters for their thoughtful contributions to the advancement of this important field.

General Chairs
Peter Palensky (TU Delft)
Anurag Srivastava (West Virginia University)

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