International Workshop on Creating and Maintaining Energy Islands

Abstract: Creating so-called "urban energy islands" is based on the rationale that if every community generates the energy it needs locally and sustainably, the global issue of climate change can partially be solved locally. Consequently, an urban energy island is a geographically delineated district that aims at achieving a high level of energy self-sufficiency while offering energy services to external grids when needed.

In a trans-disciplinary approach, the EU Horizon 2020 research project RENergetic tackles this task by optimizing the generation and composition of energy supply across the energy sectors electricity (including electric vehicles) and heat, and distributing it efficiently. These technical innovations lead to potentially novel business models for the actors involved. On top of this, energy demand is adapted to available local supply as much as possible, building on the acceptance or even the active support of the inhabitants of the energy island.

As the project lifetime is in its last term, the outcome should be presented to a wider public and discussed with experts working in related areas. To this end, the RENergetic project team invites original short papers or oral talks, in the following or **related areas, with interdisciplinary work covering technical, social science, and/or business aspects,** being highly welcome:

- Multi-sector optimization algorithms
- Demand Side Management Frameworks
- Heat Demand Response
- EV Demand Response
- Local Waste Heat Simulation and Optimization

Dates:
Submission deadline: ~~February 29, 2024~~ **March 6, 2024**
Author notification: March 14, 2024
Camera-ready & registration: March 22, 2024
Workshop: May 3, 2024

Submission:
Two types of contributions are solicited according to the [guidelines](#) of the SmartGreens mothering conference:
- **Position Papers:** Position Papers should be submitted ready for double-blind review (no authors identified), as pdf files with 8,000 to 40,000 characters (excluding white spaces), including references, tables, graphs and appendices. Submissions with less than 8,000 characters or more than 40,000 characters, may not be sent for review.
- **Talk Abstracts:** Authors can submit a 1-page abstract and may include, as complementing material, a previously published paper or a video. Please note that accepted abstracts are presented but not published in the proceedings of the conference.

Contact: For any questions, please contact one of the co-chairs:

- Sonja Klingert, University of Stuttgart (sonja.klingert@ipvs.uni-stuttgart.de)
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- Matthias Strobbe, Ghent University/imec, (Matthias.Strobbe@UGent.be)

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- Hermann de Meer, University of Passau, Germany
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- Jacek Rak, Gdansk University of Technology, Poland
- Sonja Klingert, University of Stuttgart, Germany
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- Radoslaw Gorzenski, Poznan University of Technology, Poland
- Łukasz Malewski, Poznan University of Technology, Poland

Website: Please find more information (e.g. submission instructions, registration, and workshop schedule) on the SmartGreens Website