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Energy Data Spaces: Architectures, Concepts and Applications

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Message from the Guest Editor

Dear Colleagues,

As the energy landscape evolves towards a more sustainable, decentralized model, the integration of renewable resources and distributed energy systems presents unprecedented challenges to traditional operational frameworks. This transition demands a re-evaluation of the existing physical models, which struggle to accurately monitor and plan within this dynamic environment. To address these complexities, the development of an integrated ecosystem of data value chains becomes essential. This ecosystem will empower stakeholders in the energy sector with data-driven insights for optimization and coordination.

This Special Issue focusses on advancements in this field, with a spotlight on federated architecture. Specifically, we delve into topics such as reference architectures for energy data spaces, innovative business models, intelligent applications, and the emergence of data-driven digital twins. By exploring these themes, we aim to foster a deeper understanding of the transformative potential of energy data spaces and their role in shaping the future of the energy sector.



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Special Issue



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Message from the Editor-in-Chief

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