Special Issue

Agent-Based Modeling of Socioeconomic Challenges of Energy Transition

Message from the Guest Editors

Agent-based modeling is a promising way to represent the heterogeneity of the involved actors and their interaction, to capture spatial aspects of energy transition and to investigate processes of individual decision making. Agent-based simulations enable the exploration of these fundamental processes and emergent system-level phenomena in an empirically grounded, explicit way. Finally, ABM is capable of offering science-based instruments and approaches to govern and steer the energy transition process successfully. We ask for contributions of agent-based models of, and their applications to, these socioeconomic challenges, such as design of energy markets, demand side management, policies towards diffusion of technology, and practices. Furthermore, this Special Issue looks for studies about simulations combining the technical energy system with socioeconomic behavior, especially focusing on model coupling or co-simulations of ABM with approaches of other paradigms, such as optimization.

Guest Editors

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Deadline for manuscript submissions

closed (16 November 2020)

Energies

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Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/42760

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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