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Call for Papers in *Energy Systems*

Special Issue on *Planning under uncertainty in the energy transition*

ICSP2019 conference

SI: ICSP 2019 Trondheim

The XV International meeting on Stochastic Programming – ICSP2019 <https://www.ntnu.edu/web/icsp/icsp2019> took place in Trondheim (NO) from July 29 to August 2, 2019. Several minisymposia and sessions focused on energy planning under uncertainty from a theoretical or applied perspective. This is a related call for papers in a special issue of the Springer journal *Energy Systems* guest edited by Steven A. Gabriel, Ramteen Sioshansi, and Asgeir Tomasgard devoted to outstanding contributions in the area of stochastic optimization in energy.

The special issue will cover both theoretical and applied contributions based on stochastic programs with recourse, chance constraints, robust optimization, or stochastic equilibrium problems. Examples of topics include, but are not limited to:

- long-term planning and capacity expansion,
- energy systems integration and sector coupling
- energy market design,
- hydropower planning and scheduling,
- unit commitment,
- forecasting and scenario generation,

- energy conservation modeling,
- algorithms and decomposition methods, and
- risk aversion in energy planning.

The above topics are rooted in modern approaches of operations research, economics, mathematical programming, applied probability, decision theory, and computer science. As energy markets and systems are in rapid transition, due to energy transitions that are taking place in various parts of the world, this special issue also seeks multidisciplinary and innovative applications or theoretical developments in this area.

Timeline

ICSP2019 conference: July 29-August 2, 2019

Call for Papers: at ICSP2019 and in agreement with the Journal

Firm submission deadline: December 31, 2019

Reviewing process, first decisions by: June 30, 2020

Final revisions by: March 31, 2021

Special Issue completion: June 30, 2021 (if not before)

Submission rules

The reviewing process will be handled by the Guest Editors using the Journal editorial system. Contributions are welcome by all ICSP2019 participants and co-authors, as well as participants in the Ph.D. school before the conference. Also, it is acceptable to submit a paper on a topic not presented at ICSP 2019 but still aligned with the aforementioned stochastic energy system areas as long as one of the co-authors participated in ICSP 2019 or the Ph.D. school just before. Lastly, non-participants in the above events are also permitted to submit a paper but it is preferred that they first submit a short abstract to one (or all) of the guest editors to see if the work fits well with the special issue.

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- Ramteen Sioshansi, Ohio State University, sioshansi.1@osu.edu
- Asgeir Tomasgard, Norwegian University of Science and Technology, asgeir.tomasgard@ntnu.no