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Modeling, Control, and Optimization of Multi-Generation and Hybrid Energy Systems

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Deadline for manuscript submissions:
closed (10 June 2020)

Message from the Guest Editors

Dear Colleagues,

We invite you to make submissions to this Special Issue of *Processes* focused on "Modeling, Control, and Optimization of Multi-Generation and Hybrid Energy Systems". Reliable and sustainable energy remains a major challenge today with no single solution. By combining energy technologies and resources in innovative ways, process synergies can be created and leveraged in ways that maximize energy efficiency, minimize total cost, minimize environmental impact, etc. This Special Issue seeks novel research contributions in, but not limited to, the following areas:

- Simulation, control, and/or optimization of complex energy systems
- Detailed analysis of novel energy system configurations
- Combined heat and power systems
- Multi-generation systems where multiple useful products are produced simultaneously (e.g., power and fresh water, power and chemicals, heat and cooling)
- Renewable energy
- Simulation and analysis of systems incorporating multiple energy types as inputs (e.g., solar and natural gas, wind and nuclear, etc.)
- Systems and optimization/control techniques that leverage energy storage in novel ways

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Message from the Editor-in-Chief

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