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Advanced Macromodeling and Optimization Techniques in Electrical Engineering

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Message from the Guest Editors

This Special Issue deals with scalable optimization methodologies for electronic system design and control, including applications to integrated circuit design, signal integrity simulations, power electronic systems' design and control, and communication networks' design and automation. This issue welcomes novel contributions with respect to the metrics approximated by surrogates to improve multi-objective optimization algorithms' effectiveness, balance between wide design space exploration and local search, use of surrogates for preselection of solution and interplay between surrogate-based evaluation and original expensive objective evaluation.

Topics of interest for this Special Issue include, but are not limited to:

- Surrogate-assisted optimization;
- Black-box optimization;
- Surrogate modelling;
- Metamodeling;
- Electronic circuits design;
- Control algorithm design;
- Sensitivity analysis;
- Ensemble surrogate models;
- Multiobjective optimization;
- Evolutionary optimization algorithms.



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Message from the Editor-in-Chief

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