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Computational Methods of Multi-Physics Problems II

Guest Editors:

Prof. Dr. Timon Rabczuk
Institute of Structural Mechanics, Bauhaus-Universität Weimar, Weimar, Thuringia, Germany

Dr. Xiaoying Zhuang
Institute of Continuum Mechanics, Leibniz University Hanover, 30167 Hannover, Germany

Deadline for manuscript submissions:
closed (29 February 2020)

Message from the Guest Editors

We are inviting submissions to the Special Issue, "Computational Methods for Multi-Physics Problems II", which is a continuation of the previous Special Issue, "Computational Methods for Multi-Physics Problems". These problems might include hydraulic fracturing, piezoelectricity, flexoelectricity, modeling of energy harvesters or energy storage, or the modeling of batteries, to name a few topics. The focus of the manuscripts should be on computational modeling or new computational methods for such multi-physics problems. Computational modeling is a powerful tool and is complementary to experimental testing. Topics of interest for publication include, but are not limited to, the following:

- Computational methods for moving boundary/ interface problems;
- Phase field models;
- Meshfree and isogeometric formulations;
- Multiscale methods;
- Uncertainty analysis and uncertainty quantification;
- Verification and validation;
- Optimization;
- Machine learning approaches;
- Prediction of material properties;
- Nano-scale modeling (MD, DFT, etc.).

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Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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