Modelling of Complex Software Systems

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Message from the Guest Editors

Modelling is pivotal for the development of complex systems. From the Internet of Things to Industry 4.0, the complexity of new generations of systems has introduced several new challenges both from a technical and a business perspective. Enterprises are increasingly required to improve the quality of systems while reducing the costs associated with their development, operations and maintenance. Furthermore, modern systems are required to operate within and adapt to ever-evolving environments.

In recent decades, the software engineering community has acknowledged model-driven engineering as a powerful instrument for the development of complex systems using languages, techniques and tools enabling and supporting modelling. Modelling can be carried out at different stages of the software lifecycle, exploiting the strengths of different abstractions, analysis and simulation techniques. It can also support these systems in addressing their need for continuous adaptation and evolution.

This Special Issue welcomes contributions from both researchers and practitioners describing advancements on the modelling of modern complex software systems.

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