Special Session on

Modeling, verification and performance evaluation of complex information systems (code 7kn5q)

Xi'an, China, May 30 - June 1, 2016

Description and aim of the proposed session:
Business Process Model and Notation (BPMN) and Unified Modeling Language (UML) are two of the most used standardized modeling languages for complex information systems. They reproduce the behavior of a complex process in terms of the involved participants, the causality/concurrence/conflict of the activities carried out by the formers as well as the data flow generated by the process. These models can be used for performing simulation experiments to better understand the behavior of processes. Since both of them are semi-formal languages, in order to perform verification and performance evaluation these models should be transformed to formal discrete event systems, for example in Petri nets models.

The objective of this special session is to gather original and recent approaches and applications that are based BPMN and UML and the corresponding models obtained by their transformation. The goal is to share new methods for model to model transformation, simulation, analysis, verification, performance evaluation, etc., that can be applied in practical information systems including healthcare, transportation, communication, robotics and to present interesting applications, case studies and tools.

The topics include but are not limited to:
- Business Process Modeling
- Unified Modeling Language
- Workflow nets
- Modeling and verification of complex systems
- Performance evaluation

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Contributions
Please contact us by email as soon as possible, but no later than 30 December 2015, if you would like to contribute a paper to this Special Session. Please include in your e-mail: names, affiliations, contact addresses of the contributing authors; and a tentative title of your paper. Special sessions papers will follow the reviewing process of regular papers (see workshop website).