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“Seamless Modeling in the Development of Cyber-Physical Systems”

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Abstract

Cyber-Physical Systems require more advanced modeling techniques to capture physicality including time and space, reliability in terms of probabilistic models, connectivity in terms of communication links. More advanced concepts are adaptivity, context awareness, interoperability, and autonomy. This requires a comprehensive integrated modeling framework for requirements specification, modeling of architecture, and tracing their relationships.

About

Manfred Broy is a full professor at the faculty of informatics at the Technische Universität München holding the chair for software & systems engineering. His research interests are in software and systems engineering comprising both theoretical and practical aspects. His current research interests are: System Development Processes and Tool Support, System Modelling, Requirements Engineering, Concurrent and Embedded Systems, Theoretical Foundation of Informatics, Quality, and Requirements Engineering, Systems Engineering, Cyber-Physical Systems.

(*)the picture is copied from Manfred Broy's homepage

