

Call for Submissions

IEEE Computer: Special issue on Models@run.time

Software models can be used to monitor and verify particular aspects of runtime behaviour, implement self-* capabilities (e.g., adaptation technologies used in self-healing, self-managing, self-optimizing systems), and support human-driven adaptation. A key benefit of using models at runtime is that models can provide a richer semantic base for runtime decision-making related to system adaptation and other runtime concerns.

IEEE Computer invites authors to submit papers on model-based approaches to managing and adapting executing software for a special issue of IEEE Computer on Models@run.time. Topics of interest include:

- Using models to support runtime monitoring and validation of behaviour.
- Using models to support self-* properties in autonomic software systems.
- Case studies and experience reports on the use of models at runtime.
- Leveraging design models at runtime, including work on transforming design abstractions to runtime abstractions.
- Abstractions that enable and support runtime adaptation
- Establishing and maintaining causal links between runtime models and the running software.
- Implications of Models@run.time for existing and emerging software paradigms, including service-oriented architectures.
- The development of more abstract models capturing the intent of the system, e.g. requirements reflection.

Authors should submit their manuscripts directly to Manuscript Central following author guidelines found at www.computer.org/computer/author.htm. Submission site is <https://mc.manuscriptcentral.com/cs-ieee>. **Note:** we strongly encourage authors to send title, abstract, and author name to nelly@acm.org one week before the extended deadline.

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Important Dates

Submissions due: **February 9, 2009**

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Final paper decisions: **June 1, 2009**

Issue Publication date: **October, 2009**



Guest Editors

Gordon Blair,
Lancaster University
Email: gordon@comp.lancs.ac.uk

Robert France,
Colorado State University
Email: france@cs.colostate.edu

Nelly Bencomo,
Lancaster University
Email: nelly@acm.org

