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Call for Papers

16th International GI/ITG Conference on “Measurement, Modelling and Evaluation of Computing Systems” and “Dependability and Fault-Tolerance”



MMB & DFT 2012

ITG

March 19 - 21, 2012
Kaiserslautern (Germany)

Organized by GI/ITG Technical Committees on “Measurement, Modelling and Evaluation of Computing Systems (MMB)” and “Dependability and Fault-Tolerance (DFT)”

Conference Homepage: www.mmb2012.de

The technical committees MMB and DFT are the main fora in Germany covering all aspects of performance and dependability evaluation of systems including networks, computer architectures, distributed systems, software, fault-tolerant and secure systems. In 2012, both committees join forces again in a common conference. MMB & DFT 2012 will comprise besides its scientific main programme tutorials from academic and industrial experts; invited talks, tool presentations as well as workshops focusing on special themes. The conference language is English.

Topics of MMB & DFT 2012 include:

Methods

- Quantitative evaluation techniques related to performance, dependability, security, survivability, real-time constraints, cost, energy-efficiency and combined aspects like, for instance, performance-security tradeoffs
- Fault-tolerant system and network design, dependable computing, redundancy techniques, fault modelling, fault injection
- Testing, measuring, benchmarking and monitoring of systems and networks
- Queueing systems, stochastic Petri nets, stochastic process algebras, Markov chains, non-Markovian models, fluid models, network calculus / real-time calculus
- Simulation techniques including rare events, parallel and distributed simulation
- Combination of stochastic modelling and formal methods, e.g., stochastic extensions of the UML
- Model checking in model-driven software development
- Network economics, accounting, tariffing

Applications

- Computer and software architectures, organic computing architectures, pervasive and ubiquitous computing, adaptive and self-organizing systems, embedded systems
- Fault-tolerant systems and networks, safety-oriented and security-oriented architectures, redundancy techniques
- Communication networks including access and backbone networks, optical networks, high-speed switching, peer-to-peer networks, overlay networks, sensor networks and sensor systems, car communication, mobile and wireless networks, web-based systems, multimedia systems, traffic engineering, network planning and optimization
- Green IT
- Workflow and logistic systems, traffic and transportation systems

Tools and Case Studies

Submissions

Full conference papers: Papers must be unpublished and must not be submitted for publication elsewhere. All papers will be thoroughly reviewed by at least three referees on the basis of their originality and their scientific and practical contribution to the state-of-the-art. Papers must be written in English and must not exceed 15 pages (LNCS style). The proceedings will be published in the Springer LNCS series. A best paper award will be provided.

Practical experience reports: Besides full papers practical experience reports are also solicited. Reports should not exceed 8 pages (LNCS style). Accepted practical experience reports are published separately in a technical report.

Tool descriptions: Special sessions will be arranged to present and demonstrate tools relevant to any topic covered by the Call for Papers. Accepted tool descriptions (up to four pages) will appear in the proceedings.

Tutorial proposals: Please send tutorial proposals to the conference chair.

Important Dates

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| • Paper Submission: | October 4, 2011 |
| • Tools & Tutorial Submission: | November 7, 2011 |
| • Author Notification: | December 2, 2011 |
| • Final Version: | December 16, 2011 |
| • Conference: | March 19-21, 2012 |