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Call for Papers

GI/ITG Workshop Non-Functional Properties of Embedded Systems

(Organized by GI/ITG, Fachgruppe 6.1.4, Betriebssysteme, associated with the GI/ITG Conference *Measurement, Modeling, and Evaluation of Computer and Communication Systems*, MMB)

March 27-29, 2006, Nürnberg, Germany

Workshop homepage: www.mmb2006.org

The GI/ITG Conference on Measurement, Modeling and Evaluation of Computer and Communication Systems (MMB) is the premier conference in Germany covering all aspects of performance evaluation issues. Since 1981 it has been a major forum to present and discuss the major advances, trends, and concerns in that field. In the context of MMB 2006 we also solicit papers in the scope of the topics addressed by the Workshop on Non-Functional Properties of Embedded Systems.

Non-functional properties are of fundamental relevance for realtime embedded systems software and imply a number of design decisions. Typical cases are, e.g. synchronization, protection, isolation, sharing, interaction, energy, timeliness, and dependability. As cross-cutting concerns of the entire software system, non-functional properties may have serious drawbacks on software maintenance in general and component reuse in particular. Current research focuses on how to express, model, unitize, and enforce non-functional properties and to keep them logically separated from the (functional) component code.

The purpose of the workshop is to bring together practitioners, researchers, academics, and students who work on or have made experiences with non-functional properties of systems software and to discuss their issues in the context of embedded systems.

TOPICS of the workshop include:

- non-functional properties of embedded system software,
- relationship between architecture and non-functional properties,
- dealing with non-functional properties in layered software systems,
- configurability and composition of non-functional properties,
- design and implementation techniques for non-functional properties,
- novel approaches to enforce and guarantee non-functional properties,
- concepts and ideas for dealing with conflicting non-functional requirements,
- pre-estimation techniques of emergent software properties,
- experience reports.

SUBMISSION GUIDELINES

Prospective participants of the workshop are asked to submit a position paper or experience report (of about 5 pages). Submission of industry papers is particularly encouraged. All papers must be written in English and must be sent as email to os@cs.fau.de in PDF. Accepted papers will appear in separate workshop proceedings published by VDE Verlag. Further details can be found at the workshop homepage.

IMPORTANT DATES

- Paper submission: December 15, 2005
- Author notification: January 15, 2006
- Final version: February 15, 2006
- Conference and workshop: March 27-29, 2006