BISE – Call for Papers Issue 3/2010

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High-Impact Requirements Engineering

Despite many years of requirements engineering research, many software-intensive systems still fail due to problems in the identification of requirements or their continuous management and monitoring. Empirical studies show an encouraging usage of classical semi-formal methods including some degree of validation. In critical systems, growing usage of formal methods can be observed, provided they are supported by suitable tools for analysis and testing. Many firms use multiple methods for capture and analysis, and most – with unfortunate exceptions in large-scale prestige projects – pursue a risk- and market-driven staging of systems.

The classical requirements engineering methods address individual projects and are no longer adequate in the complex context of current system ecologies and rapid market changes. From the management viewpoint, the focus is on the linking of requirements to business processes, on requirements ownership and responsibility, and on legal and economic aspects; standards and platform strategies play an increasing role. From the viewpoint of computer science, the interest moves still further from initial development to integration and re-integration on the basis of off-the-shelf services, and on fluid evolution processes that can react dynamically to the continuously changing requirements. Users want a seamless experience despite the growing number of subsystems they interact with, but also a clever organization of the manifold requirements of different stakeholder groups is important for transparency. Technologically, the growth of mobile and embedded systems creates challenges as well as opportunities, espe-

cially as sensor equipment improves the runtime monitoring of systems also at the level of requirements.

The special focus “High-Impact Requirements Engineering” brings together problem analyses, case studies, and innovative ideas for solving these issues. In their totality, these should contribute to increased impact of requirements engineering as a methodology for requirements driven design and operation of software-intensive system landscapes.

Contributions from research and business practice on the following (and related) topics are invited:

- Requirements management and business processes (internal, inter-organizational, with public institutions), ownership of requirements
- Impact of product and process variability, platform strategies and standards
- Requirements management, system architectures, and system ecologies
- Legal, economic, and social aspects of requirements engineering
- Requirements engineering, market research and industrial design
- Structuring requirements in large, diverse user communities
- End user development
- Requirements management in Open-Source-Communities
- Requirements management in international system development (Outsourcing, Offshoring)
- Requirements traceability and runtime requirements monitoring
- Change management and traceability
- Goal-driven requirements engineering
- New methods for requirements modeling
- Management of complexity and dynamics of requirements, traceability
- Requirements management tools
- Case studies for high-impact requirements engineering

Submission

Please submit papers by 2009-08-01 at the latest to Prof. Dr. Matthias Jarke (jarke@dbis.rwth-aachen.de). Please observe the instructions regarding the format and size of contributions to Business & Information Systems Engineering (BISE). Papers should not exceed 10 pages; this amounts to 50,000 characters including spaces, minus 5,000 characters per page for illustrations. Papers should be submitted electronically

in German or English language (as *.doc- or *.rtf-documents).

All papers will be reviewed anonymously (double-blind process) by several referees with regard to relevance, originality, and research quality. In addition to the editors of the journal, including those of this special focus, distinguished national and international professionals with scientific and practical backgrounds will be involved in the review process.

Complementary articles covering topics of this special focus are also more than welcome for other sections of the journal, e. g. for BISE – State of the Art, BISE – Catchword, and BISE – Profile. Please send those articles directly to the editor-in-chief Prof. Dr. Hans Ulrich Buhl (hans-ulrich.buhl@wiwi.uni-augsburg.de).

Schedule

Submission deadline: 2009-08-01
 Author notification: 2009-10-12
 Completion of first revision: 2009-12-14
 Author notification: 2010-02-01
 Completion of a second revision (if needed): 2010-03-01
 Planned publication date of Issue 3/2010: May 2010

Editors of the special focus

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