

**CALL FOR PAPERS**  
**IEEE Transactions on Software Engineering**  
**Special issue on Evaluation and Improvement of Software Dependability**  
**Early 2010 issue**

*IEEE Transactions on Software Engineering* seeks original manuscripts for a Special Issue on Evaluation and Improvement of Software Dependability scheduled to appear early in 2010.

The widespread use of software systems and their ever increasing size and complexity impose many challenges that the research community and quality assurance practitioners strive to meet. The aim of this special issue is to publish novel theoretical and empirical research work focused on different aspects of software dependability. The scope covers wide range of methodologies, techniques, and tools to (1) measure, estimate and predict software dependability (based on measurements, controlled experimentation, modeling etc.) and (2) analyze and evaluate the impact of software testing and verification on software dependability.

Topics of interest include but are not limited to

- Analysis and evaluation of software reliability, availability, safety
- Analysis and evaluation of software security
- Impact of software testing and verification on software dependability
- Model-based testing and software dependability
- Measurements of software dependability
- Controlled experiments for measuring and improving software dependability
- Software dependability Benchmarking
- Dependability of fault-tolerant software systems

High-quality contributions that describe basic or applied research on any of the above topics are solicited. Submitted articles must not have been previously published or currently under consideration for publication in any other journals or conferences. Significant extensions to substantive papers published in conferences are also welcomed. In accordance with the TSE submission policy, such papers should be submitted together with the conference version and a summary of extensions. All submissions must conform to the IEEE Transactions on Software Engineering submission guidelines, which can be accessed at <http://www.computer.org/mc/tse/author.htm>.

Abstracts should be e-mailed to the guest editors at Katerina.Goseva@mail.wvu.edu and karama.kanoun@laas.fr, followed by full papers submissions online at the IEEE *Transactions on Software Engineering* submission site (<https://mc.manuscriptcentral.com/cs-ieee>) with a note/tag designating the manuscript to this special issue. All submissions will be peer-reviewed by at least 3 experts in the field. Priority will be given to work with high novelty and potential impacts.

**Important Dates:**

- Abstract Deadline: 1-Oct-08
- Full Paper Submission Deadline: 10-Oct-08
- Author Notification: 9-Apr-09
- Major Revisions Due: 8-Jul-09
- Author Notification: 25-Sept-09
- Minor Revision Due: 27-Oct-09
- Final recommendations: 10-Nov-09
- Final Manuscripts Due: 1-Dec-09
- Publication Date: Jan/Feb 2010

**Guest Editors:**

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