



CALL FOR PAPERS

1st International Symposium *on* **Architecting Critical Systems** (ISARCS 2010)

Program Chair
Holger Giese

holger.giese@hpi.uni-potsdam.de

Hasso Plattner Institute at the University of Potsdam, Germany

General Chair
Frantisek Plasil

plasil@nenya.ms.mff.cuni.cz

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Prague | Czech Republic

www.isarcs.org/isarcs2010 Federated with CompArch 2010 www.comparch-events.org/index/

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Architecting critical systems has gained major importance in commercial, governmental and industrial sectors. Emerging software applications encompass criticalities that are associated with either the whole system or some of its components. Therefore, effective methods, techniques, and tools for constructing, testing, analyzing, and evaluating the architectures for critical systems are of major importance. Furthermore, these methods, techniques and tools must address issues of dependability and security, while focusing not only on the development, but also on the deployment and evolution of the architecture.

This new symposium aims to be an exclusive forum for exchanging views on the theory and practice for architecting critical systems. Such systems are characterized by the perceived severity of consequences that faults or attacks may cause, and architecting them requires appropriate means to assure that they will fulfil their specified services in a dependable and secure manner. The different attributes of dependability and security cannot be considered in isolation as architecting critical systems essentially means to find the right trade-off among these attributes and the various other requirements imposed on the system. This symposium therefore brings together four communities addressing the architecting of critical systems from their perspectives, and each one having their own respective dissemination forums, namely dependability, safety, security and testing/analysis for architecting systems. To this end the symposium unites the following three events: Workshop on Architecting Dependable Systems (WADS), Workshop on the Role of Software Architecture for Testing and Analysis (ROSATEA), and Workshop on Views On Designing Complex Architectures (VODCA).

The aim of ISARCS is to bring together expertise from different communities in order to provide a comprehensive view on how to design, develop, deploy and evolve critical systems from the architectural perspective. We are interested in submissions from both industry and academia, including, but not limited to, the following main areas:

- Rigorous development
- Testing and analysis
- Fault tolerance
- Safety
- Security
- Combined approaches for architecting critical systems
- Domains with critical systems
- Industrial needs

Accepted contributions will be published in a volume of the Springer Lecture Notes in Computer Science series. Papers should not exceed 16 pages, must be written in English, and prepared according to Springer's LNCS style (guidelines are available at: <http://www.springer.de/comp/lncs/authors.html>). Papers must not have been previously published or submitted elsewhere. If accepted, the paper must be personally presented at ISARCS 2010 by one author.

The authors of the best papers will be invited to submit a revised and extended version of their paper after the symposium to a related special issue of the International Journal of Critical Computer-Based Systems (IJCCBS). <http://www.inderscience.com/browse/index.php?journalCODE=ijccbs>



IMPORTANT DATES:

Abstract
Submission deadline
Author notification
Publication ready copy

February 22, 2010
March 01, 2010
March 31, 2010
April 14, 2010