

International Symposium on Architecting Critical Systems (ISARCS)

This initiative aims to establish a new symposium in the area of architectural design for dependable, safe and secure systems, which would be an exclusive forum for exchanging views on the theory and practice for architecting critical systems. A critical system is characterized by the perceived severity of consequences that system failures may cause. In that respect, in addition to appropriate development methods, techniques and tools, a critical system also requires the provision of assurances that it is able to fulfil its specified service. This new symposium would bring together four different communities that have their own respective dissemination forums, and which are working on software architectures' notations, methods, techniques and processes from different perspectives, namely dependability, safety, security and testing.

Motivation

The architectural design of dependable, safe and secure systems has gained major importance in commercial, governmental and industrial sectors. Emerging software applications encompass criticality that is associated with either the whole system or its components. The criticality of these applications will require effective methods, techniques and tools for designing, validating (including testing), verifying and evaluating the architectures for these systems.

The motivation for establishing a new international forum is to disseminate results of the research and practice in the area of architectural design for dependable, safe and secure systems, since these system attributes require a *distinct* and *strict* set of means for the provision and justification of trust.

Existing Events

The three events that the proposed new symposium is bringing together are:

- Workshop on Architecting Dependable Systems (WADS)
- Workshop on the Role of Software Architecture for Testing and Analysis (Rosatea)
- Workshop on Views On Designing Complex Architectures (VODCA)

Complementary Conferences

The intent of this new symposium is not to clash with existing and established conferences on correlated areas, namely, WICSA, ECSA, QoSA and CBSE, which deal with either software architectures or component-based development, but to focus exclusively on the themes of dependability, safety and security within the context of software architectures.

Date and Venue

The aim is to hold the first edition of this new symposium in 2010, and as part of the Federated Events on Component-Based Software Engineering and Software Architecture (CompArch).

Contacts

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