

CALL FOR PAPERS



DSN 2008 Workshop on Architecting Dependable Systems (DSN 2008 WADS)

Theme:

Dependable Service Oriented Architectures

**Anchorage, Alaska - USA
27 June 2008**

<http://www.cs.kent.ac.uk/wads>

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This workshop will continue the initiative, which started five years ago, of bringing together the international communities of dependability and software architectures. The first workshop on Architecting Dependable Systems was organised during the International Conference on Software Engineering 2002 (ICSE 2002). Since then seven workshops were organised and four books were published. This series of workshops have shown to be a fertile ground for both communities to clarify previous approaches, thus helping to promote new topical areas where the most promising research may lie, while avoiding the reinvention of the wheel.

The main focus of this series of workshops is to address at the architectural level the structuring, modelling, and analysis of dependable software systems. During DSN 2008 WADS the underlying theme will be **Dependable Service Oriented Architectures**.

OBJECTIVES AND TOPICS

The aim of the workshop is to bring together the communities of software architectures and dependability to discuss the state of research and practice when dealing with dependability issues at the architecture level. We are interested in submissions from both industry and academia on all topics related to software architectures for dependable systems. These include, but are not limited to:

- **Rigorous design:** architectural description languages; architectural patterns; formal development; architectural views; architectural support for evolution; integrators (wrappers) for dependability; representation of fault assumptions;
- **Verification & validation:** architectural inspection techniques; theorem proving; type checking; model checking; architecture-based fault injection; architecture-based conformance testing; simulation;
- **Fault tolerance:** redundancy and diversity at the architectural level; error confinement; architectural monitoring; dynamically adaptable architectures; exception handling in software architectures; tolerating architectural mismatches; architectural support for self-healing, self-repairing, self-stabilizing systems; support for adaptable fault tolerance;
- **System evaluation:** assurance based development; dependability modeling and analysis in software architectures; run-time checks of dependability models at the architectural level; tradeoff between dependability and cost;
- **Enabling technologies:** model driven architectures; component based development; aspects oriented development; middleware;
- **Application areas:** safety-critical systems; critical infrastructures; mobile systems; embedded systems; service oriented architectures: e-commerce, e-business, e-government;

PARTICIPATION AND SELECTION PROCESS

The workshop is open to all researchers, system developers and users who are involved with or have an interest in dependability at the architecture level. We encourage all the prospective participants to submit an extended abstract, work-in-progress report or position paper.

The submissions must conform to the proceedings publication format (IEEE Conference style) and should not exceed six pages, including all text, references, appendices, and figures. They should explain the contribution to the field and the novelty of the work, making clear the current status of the work. Workshop paper submissions should be sent electronically (preferably in PDF format), by the submission date, through the [Web submission system](#) accessible from the Workshop home page. The submissions will be reviewed by at least three members of the Program Committee. The papers will be published in a supplemental volume of the DSN Proceedings.

IMPORTANT DATES

Submission deadline: **** 17 March 2008 ****
Author notification: **14 April 2008**
Publication ready copy: **2 May 2008**

FURTHER INFORMATION

Workshop-related email should be addressed to: dsn2008-wads@kent.ac.uk
Workshop home page: <http://www.cs.kent.ac.uk/wads>