

Important Dates

Submission: March 25, 2011

Notification: April 18, 2011

Camera-ready: April 22, 2011

Workshop Chairs

Matthias Galster (m dot r dot galster at rug dot nl)

Paris Avgeriou

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Program Committee

Eduardo Almeida

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Philippe Kruchten

Patricia Lago

Martin Naedele

Klaus Schmid

Michael Stal

Tim Trew

Uwe Zdun

Submission Guidelines

▶ Research papers (up to 8 pages)

▶ Future trend papers (up to 4 pages)

▶ Industrial paper (up to 8 pages)

Submissions must follow the IEEE conference proceedings format and can be uploaded through EasyChair.

Proceedings

Accepted papers will be included in the 2nd volume proceedings to be published by the IEEE Computer Society.

www.cs.rug.nl/~matthias/varsa2011

Boulder, Colorado, USA, June 20, 2011

at the 9th Working IEEE/IFIP Conference on Software Architecture

Motivation and Objectives

Variability is the ability of a software artifact to be changed for a specific context. Mechanisms to accommodate variability include software product lines, configuration wizards and tools in commercial software, configuration interfaces of software components, or the dynamic runtime composition of web services. Variability is primarily reflected in and facilitated through the software architecture. Also, the software architecture is the centerpiece of software systems and acts as reference point for many development activities, and many of today's software systems are built to accommodate variability. Thus, variability in software architecture (SA) should be well-understood and be treated as a first-class concern. SA acknowledges that variability is a concern of different stakeholders, and in turn affects other concerns. Nevertheless, treating variability related to the architecture and all architecture aspects, as a cross-cutting concern, is currently not well understood.

VARSA 2011 aims at identifying critical challenges and progressing the state-of-the-art on variability in SA. VARSA explores modeling, implementing, and managing variability in SA. Therefore, the goal of this edition of VARSA is to bring together researchers and practitioners interested in a) variability as it occurs in software architectures, particularly in relation to quality attributes (e.g., performance, security), b) implications of variability on emerging architecture paradigms (e.g., SOA, self-adaptive systems, REST, cloud architectures, software ecosystems), and c) how variability can be facilitated in architecture descriptions (e.g., the use of architecture viewpoints and views).

Topics of Interest

Topics of the workshop include but are not limited to:

- ▶ Methods, techniques, tools, notations / languages for variability in SA.
- ▶ Modeling variability in different architecture model types (e.g., information / development models), rather than annotating component-and-connector or feature models.
- ▶ Types of variability in SA.
- ▶ Architecture viewpoints and views to manage variability.
- ▶ Reference architectures for variability-intensive systems.
- ▶ Evaluation, resolution and evolution of variability in SA.
- ▶ Variability in emerging architecture paradigms (e.g., dynamic construction of applications, variability in large scale systems, SOA, cloud architectures, REST architectures, software ecosystems).
- ▶ Variability to support runtime adaptation and in self-adaptive systems.
- ▶ Variability and quality attributes.
- ▶ Variability in SA as cross-cutting concern beyond product lines and product line architectures.
- ▶ Traceability between enterprise architecture and SA.
- ▶ Architecture patterns, styles and tactics for variability.
- ▶ Experience reports and best practices from industry, empirical studies.