

Software and Services Variability Management Workshop

Concepts, Models and Tools

Helsinki, Finland, April 19, 2007

Workshop Chairs

Tomi Männistö
Helsinki University of
Technology (TKK), Finland

Eila Niemelä
VTT, Finland

Mikko Raatikainen
TKK, Finland (Local
arrangements)

Program Committee

Jan Bosch*, Nokia, Finland
Krzysztof Czarnecki*, University of
Waterloo, Canada

Alexander Felfernig*, University of
Klagenfurt, Austria

Esther Gelle*, ABB Corporate
Research AG, Switzerland

Albert Haag*, SAP, Germany

Peter Knauber*, Mannheim
University of Technology,
Germany

Kai Koskimies*, Tampere
University of Technology,
Finland

Rene Krikhaar*, ICT NoviQ,
Netherlands

Thorsten Krebs*, University of
Hamburg, Germany

Philippe Kruchten*, University of
British Columbia, Canada

Charles Krueger*, BigLever
Software, USA.

Johan Lilius*, Åbo Akademi
University, Finland

John MacGregor*, Robert Bosch
GmbH, Germany

Mari Matinlassi, VTT, Finland

Nenad Medvidovic*, University of
Southern California, Canada

Ilkka Niemelä*, Helsinki University
of Technology, Finland

Klaus Pohl*, Lero, Ireland,
University of Duisburg-Essen,
Germany

Christian Prehofer*, Nokia,
Finland

Pierre-Yves Schobbens*,
University of Namur, Belgium

Juha-Pekka Tolvanen*,
MetaCase, Finland

André van der Hoek*, University
of California at Irvine, USA

Rob van Ommering*, Philips
Research, Netherlands

* *to be confirmed*

Call For Papers

The amount of variability that software is required and designed to support has continuously been increasing for some time. Typical reasons have included better customer satisfaction, ability to cover larger and heterogeneous markets, customer segmentation, just to mention few. While these reasons are still valid, in the future variability is becoming more complex. For example, software and services vary in terms of quality attributes, they become adaptive based context awareness, and they are even dynamically personalized. Although software product families emerged as a successful means for achieving large software variability in an effective manner, variability is extending to new areas such as services. Rigorous concepts, models, and tools are needed for describing and managing the variability so that large and flexible variability can be supported and effective means for deriving products and services achieved.

The goal of this workshop is to find out and articulate the current status and ongoing work within the field of variability in services and software by bringing together and promoting the transfer of knowledge between different disciplines and application domains, and between research and practice. The workshop aims towards common discipline and foundations of software variability paradigm. In order to outline future directions, the status is to be reflected especially to the needs expressed by the industrial participants

Earlier workshops on software variability (e.g., at SPLC, ICSE, Groningen, configuration workshops) have provided an initial understanding of the area and formed a basis for managing the variety to be applied, for example, to software product families or service oriented architectures, service adaptation, configuration and dynamic reconfiguration of services and software intensive systems. Relevant results and lessons learned can also be found from the traditional products and services, such as in the field of product configuration that has recently shown interest to broaden its scope in software domain.

Workshop Format

Morning: Short introductory paper and tool presentations with ample time for discussion.

Afternoon: Group work (topics to be finalised after the contributions are known)

Plenary wrap-up discussion and generation of (outline and draft for the) workshop report.

Accepted papers will be printed as a technical report of Software Business and Engineering Institute of Helsinki University of Technology, and distributed at the workshop.

The results of the workshop will be summarised in a report that would contain the state of the practice and research in software variability management and the gathered requirements for methodology and tool support.

Submissions

The topics relevant to the workshop include, but are not limited to:

- Software variability management
- Service and architecture orientation in variability management
- Non-functional requirements and variability, e.g., Quality of Service
- Dynamic architectures and variability
- Adaptive service-oriented architectures and service discovery
- Ontologies and modelling languages for variability management
- Variability modelling tools, including feature modelling and road-mapping tools
- Formal methods for variability modelling and knowledge intensive tools
- Integration of existing software development life cycle tools into variability management
- Requirements for software and service variability management methods and tools
- Industrial case studies and real world challenges

Venue

Exact location will be defined later
Helsinki, Finland

Important Dates

Deadline for submissions December 15, 2006 (more details from www.soberit.tkk.fi/SVM-WS)
Notification of acceptance January 31, 2007
Deadline for camera-ready papers March 15, 2007
Workshop April 19, 2007

Collaborating partners



HELSINKI UNIVERSITY OF TECHNOLOGY
SoberIT

More information:
www.soberit.tkk.fi/SVM-WS