Call for Papers

2010 First International Workshop on Automated Configuration and Tailoring of Applications

Held in conjunction with the 25th IEEE/ACM International Conference on Automated Software Engineering, Antwerp, Belgium, 20 September 2010.

Motivation

With the increasing number of applications and the importance of software in our daily lives, it is inevitable that in the near future end-users will be directly involved in configuring and tailoring applications to match their requirements. Such a scenario has several implications for software engineering practices. Major attention will have to be paid to automation of software configuration approaches and tailoring of applications. Software product lines are more important than ever, but need to be deployed in a fundamentally different, more compositional, way and prepared as the basis for a software ecosystem.

Automation of configuration (e.g., the process of selection, composition, and configuration of components or services) is crucial, as end-users are typically not software engineers. Among others, it will be increasingly important to explicitly define and model the variability of applications as a basis for automation. Supporting tailoring of applications means that users themselves can adapt and customize an application to their specific needs, possibly on the fly. This requires abstracting from technical configuration mechanisms and representing adaptability in a way perceivable and usable by end-users. Rigorous modelling methods, languages, and tools are needed to describe and manage the variability of applications and to implement effective means for configuring and tailoring applications.

Topics of Interest

Topics of interest focus on configuration and end-user interaction techniques for tailoring software applications. We particularly encourage research papers based on industrial experience and empirical studies. Workshop topics include but are not limited to:

- End-user involvement in configuration
- Dynamic architectures and variability
- Software and service configuration approaches
- Service-oriented architectures and service discovery
- Variability modelling tools, including feature modelling and road-mapping tools
- Integration of existing software development life-cycle tools into end-user product customization management
- Industrial case studies and real-world challenges
- Applied formal methods that help to automate configuration and adaptation
- Software eco systems and implications for end-users

Submissions

We are seeking research papers, experience reports, and position papers not exceeding 10 pages. We also encourage the submission of papers presenting visions for future research and tool demonstrations.

Submissions must conform to the IEEE proceedings 8.5x11", two-column format and should explain how the (proposed) research or solution contributes to the automation of product configuration and tailoring of applications. Submissions are selected based on originality, novelty, and relevance to the workshop topics, as well as on their suitability for triggering discussions. Papers must be submitted electronically through the Easychair conference management system in PDF format. Authors will be notified about the acceptance or rejection of their papers.

For further information and recent updates, please consult the website.

Program Committee

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Markus Völter, Itemis, Germany

Andrea Zisman, City University London, UK

Important Dates

Deadline for submissions: June 21, 2010

Notification of acceptance: July 19, 2010

Final papers due: July 30, 2010

Workshop Organizers

Deepak Dhungana, Lero - The Irish Software Engineering Research Centre, Limerick, Ireland

Rick Rabiser, Christian Doppler Laboratory for Automated Software Engineering, Johannes Kepler University, Linz, Austria

Norbert Seyff, Centre for HCI Design, City University London, London, UK

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