

# *Proceedings*

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**18th International Software Product Line Conference**

# **SPLC 2014**

## **Volume 1**

Conference Organizers:



University of Florence

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Formal Methods and Tools Laboratory  
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**Cover pictures:**

Giuseppe Zocchi – The Piazza della Signoria in Florence (1711–1767)

Giuseppe Zocchi – View of the Tiber Looking Towards the Castel Sant'Angelo, with Saint Peter's in the Distance (1711–1767)

Lorenzo Gelati – View of Florence from San Niccolò Bridge (1824-1895)

Giuseppe Zocchi – View of the Arno in Florence (1711–1767)

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## Welcome Message

Welcome to SPLC 2014, the 18th International Software Product Line Conference. SPLC is the premier forum for practitioners and researchers to present and discuss novel ideas, research results, experiences as well as issues and problems in the field.

This year, the program of the conference consists of a variety of exciting events such as keynote talks, research and industry paper presentations, panels, tutorials, workshops, tool presentations, demos, the doctoral symposium and the Product Line Hall of Fame sessions.

The research and industry tracks of the conference received a total of ninety-seven (97) paper submissions: seventy-four (74) for the research track and twenty-three (23) for the industry track. Each submitted paper was reviewed by at least three Program Committee members. Papers with controversial reviews were thoroughly discussed online.

As the result of this process, the Program Committee of the research track accepted 20 long and one short paper (an acceptance rate of 28%). In addition, five papers originally submitted in a long version were accepted as short. The long papers have been grouped into seven sections: Configuration, Testing, Variability Modeling, Variability in Artifacts, Domain-Specific Approaches, and Formal Approaches to Software Product Lines.

For the industry track, the Program Committee accepted 10 long papers (an acceptance rate of 43%). The papers have been grouped into three sections: Product Line Governance, Product Line Scoping and Adoption, and Experience Reports from Industry.

We wish to thank the authors of all papers submitted to the conference for their contribution. We also wish to thank the Program Committee members and the external reviewers of both tracks for providing their high-quality and timely reviews. Their helpful and constructive feedback to the authors is most appreciated.

We are grateful to our keynote speakers, Luciano Baresi ("Self-adaptive systems, services, and product lines"), Jonn Lantz ("Using models to scale agile mechatronics development in cars; case studies at Volvo Car Group"), Mark Harman ("Search based software engineering for software product line engineering: a survey and directions for future work"), and Arnaud Hubaux ("What research in software product line engineering is not solving in configuration") for sharing their ideas and insights on this field.

It is important to highlight that the conference is the result of an intensive collaboration of many people. In particular we would like to thank Maurice ter Beek and Goetz Botterweck (Workshop Chairs), Sholom Cohen and Jaejoon Lee (Tutorial Chairs), Claudia Werner (Panel Chair), Martin Becker (Demonstrations and Tool Chair) and Dave Clarke (Doctoral Symposium Chair) for helping us in setting up a great program.

Finally, we would like to thank the members of the Organizing Committee whose efforts contributed to make the conference a success as well as our sponsors for their generous support.

We are looking forward to many interesting discussions with you during and after the conference. We hope you will enjoy the conference and the exciting city of Florence!

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