Preface

This volume contains the proceedings of the 8th IEEE International Conference on Software Engineering and Formal Methods (SEFM 2010) held on 13-18 September 2010 in Pisa, Italy, hosted by the Istituto di Scienza e Tecnologie dell’Informazione A. Faedo of the Consiglio Nazionale delle Ricerche (ISTI-CNR).

The aim of this conference is to bring together practitioners and researchers from academia, industry and government to advance the state of the art in formal methods, to scale up their application in software industry and to encourage their integration with practical engineering methods.

The Program Committee of SEFM 2008 received 102 submissions from all over the continents. We would like to thank all authors for submitting their papers. Each paper was reviewed by at least three reviewers. Based on the review reports and intensive discussions conducted electronically, the Program Committee selected 23 regular papers (acceptance rate around 22%) and 5 short papers. We would like to thank the Program Committee members and all reviewers for their efforts in the selection process.

Besides the regular session a special track devoted to honor the memory of R. Geoff Dromey was organized. Geoff was one of the founders of the SEFM conference series and a member of the SEFM Steering Committee. In 2001 he defined the Behavior Trees modelling notation to which he has been working during his last years by developing the concepts for their application in systems and software engineering. Geoff passed away on 14 December 2009. Speakers of the special track were Daniel Powell, Griffith University, Peter Lindsay, The University of Queensland and Kirsten Winter, The University of Queensland.

After the conference, the authors of a selection of papers presented at SEFM 2010 will be invited to submit extended versions of their works for publication in Springer’s journal “The Formal Aspects of Computing.”

In addition to contributed papers, the conference programme includes four tutorials and three keynote speakers. The tutorials were offered by: Yudistira Asnar, Daniela Marino, and Fabio Massaccici on Outsourcing vs. Compliance - in Software Service Viewpoint; Manuela L. Bujorianu and Antonios Tsourdos on Multi-dimensional co-engineering of autonomous systems; David Harel with the question Can we Computerize an Elephant?, and Jayadev Misra giving a tutorial on Structured Wide-Area Programming.

We are grateful to Carlo Ghezzi, Politecnico di Milano, Italy, Dimitra Giannakopoulou, NASA Ames Research, USA and Dusko Pavlovic Kestrel Institute, Palo Alto, USA, for accepting our invitation to address the conference.


We also would like to thank the members of the Steering Committee and the Organising Committee as well as several other people whose efforts contributed to make the conference a success. SEFM 2010 is sponsored by the IEEE Computer Society, and received the support of the Formal Methods Europe association.
ISTI-CNR, UNU-IIST and the Computer Science Department of the University of Pisa have also co-organised a postgraduate school held in Pisa during the week preceding SEFM 2010.

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