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Preface

This report contains the proceedings of the Second International Workshop on *Semantic Foundations of Engineering Design Languages* (SFEDL 2004). The development of design languages for embedded systems employed in engineering practice today is mainly driven by practical considerations which often sacrifice semantic coherence for a rich combination of features. Although academic research over the past two decades has seen many advances in semantic foundations, it was often carried out in the framework of abstract calculi and logics which lack practical relevance. Recently, researchers are starting to adapt and refine their settings to address this deficiency. Similarly, tool developers are seeking a thorough semantic support for their tools in order to make them scale up with the ever increasing complexity of real-world systems. The aim of this workshop is to foster this recent trend by bringing together practically-minded concurrency theoreticians, as well as theoretically-minded practitioners interested in the semantic foundations of engineering design languages.

The workshop took place on April 3, 2004 as a satellite event to the Seventh European Joint Conferences on Theory and Practice of Software (ETAPS 2004) and was hosted by the Technical University of Catalonia in Barcelona, Spain. We received paper submissions from 13 countries on 4 continents, of which 66% were accepted for presentation. The submitted papers were evaluated by an international program committee with the following members:

M. Broy	*(Technical University of Munich, Germany)*
R. Cleaveland	*(Reactive Systems Inc, USA)*
S. Edwards	*(Columbia University NY, USA)*
K. Havelund	*(NASA Ames, USA)*

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H. Hermanns	*(University of Twente, Netherlands)*
G. Lüttgen	*(University of York, UK)*
N. Martínez Madrid	*(University Carlos III de Madrid, Spain)*
S. Mauw	*(Eindhoven University of Technology, Netherlands)*
M. Mendler	*(University of Bamberg, Germany)*
W.–P. De Roever	*(University of Kiel, Germany)*
E. Rutten	*(INRIA Rhône-Alpes, France)*
R. De Simone	*(INRIA, Sophia-Antipolis, France)*
B. Steffen	*(University of Dortmund, Germany)*

The meeting of the program committee took place electronically in January 2004. In addition to the submitted contributions, there was an invited presentation by Luca de Alfaro (University of California, Santa Cruz, USA).

We would like to express our gratitude to all authors of submitted papers, to the members of the program committee and to the referees assisting them. We greatly appreciate the efforts of the ETAPS organizing committee in Barcelona, especially F. Orejas (*general chair*) and J. Cortadella (*workshop chair*).

Gerald Lüttgen
Natividad Martínez Madrid
Michael Mendler
February 2004