Preface

This volume contains the revised versions of a selection of papers published in the proceedings of the Seventth Spanish Conference on Programming and Computer Languages, PROLE 2007, held in Zaragoza (Spain) on September 12-14, 2007, colocated with the Second Spanish Conference on Informatics (CEDI). Programming languages provide a conceptual framework which is necessary for the development, analysis, optimization and understanding of programs and programming tasks. The aim of the PROLE series of conferences (PROLE stems from the Spanish PROgramación y LEnguajes) is to serve as a meeting point for Spanish research groups which develop their work in the area of computer programming. The organization of this series of events aims at fostering the exchange of ideas, experiences and results among these groups. Promoting further collaboration is also one of the main goals of PROLE. Previous editions of PROLE were organized in Sitges (2006), Granada (2005), Málaga (2004), Alicante (2003), El Escorial (2002), and Almagro (2001). PROLE welcomes both theoretical and practical works concerning the specification, design, implementation, analysis, and verification of programs and programming languages. More precisely, the topics of interest include, but are not restricted to:

- Programming paradigms (concurrent, functional, imperative, logic, agent-oriented, aspect-oriented, object-oriented, visual, . . .),
- Programming paradigm integration,
- Specification and specification languages,
- Type systems,
- Languages and techniques for new computation and programming models (DNA and quantum computing, genetic programming, . . .),
- Programming language implementation (tools and techniques),
- Semantics of programming languages,
- Program analysis techniques,
- Program transformation and optimization,
- Program verification and certification, and

- Program debugging and testing.

The technical program of PROLE 2007 included 37 accepted papers and one invited talks by John Gallaguer (Roskilde University, Denmark). After a careful and thorough reviewing process, the program committee selected the nine papers which conform this issue of Electronic Notes in Theoretical Computer Science. I would like to thank the Program Committee members for their excellent work in the reviewing process:

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