



Proceedings of the
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Preface

1 pages

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Every year, the Spanish Conference on Programming and Computer Languages (PROLE) brings together Spanish researchers interested in aspects related to the formal definition, analysis, implementation and verification of programming languages. Maybe the most telling common characteristic of the research carried out by the PROLE community is that particular attention is always paid to the formal and rigorous presentation of the results. A non-exhaustive list of the areas of interest covered by PROLE includes logic/functional/logic-functional programming and applications, program semantics, program transformation, Databases, constraint logic programming, formal aspects of software engineering and model checking.

In the 2012 meeting, 21 papers were accepted in three different categories: original research papers, research papers in progress, and high level papers previously published in outstanding conferences or journals. The present volume contains the three original research papers selected after the meeting by the program committee of PROLE'12 to be published in ECEASST.

This year, the selected papers consider the implementation and testing aspects of databases, and debugging in fuzzy logic systems. First, the paper *Tabling with Support for Relational Features in a Deductive Database* by *Fernando Sáenz-Pérez* shows how relational features can be supported in a tabled deductive database with datalog as query language. In addition, *Test-Case Generation for SQL Nested Queries with Existential Conditions* by *Rafael Caballero et al.* proposes an approach for the generation of positive test-cases of databases by reducing the problem to a constraint satisfaction problem. And, finally, *String-based Multi-adjoint Lattices for Tracing Fuzzy Logic Computations* by *Pedro J. Morcillo et al.* introduces the notion of multi-adjoint lattices to model uncertainty during the debugging of fuzzy logic-based systems.

I would like to thank the authors of the papers presented at the meeting, the members of the Program Committee and the external reviewers for their excellent work. I am also grateful to *Prof. Maribel Fernández* from King's College London for her interesting talk given during the meeting entitled *Strategy-Driven Graph Transformations in PORGY*.

I would like to thank the organization committee of the University of Almería, led by *Prof. Luis Iribarne*, for their excellent work in the preparation and development of PROLE'12. Finally, I am grateful to the Spanish Association of Software Engineering and Technology of Software Development (SISTEDES) for their continued support in the annual celebration of PROLE.

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M.G.