

## PREFACE

The Sixth Workshop on Fixed Points in Computer Science, FICS 2009, was held in Coimbra, Portugal, 12–13 September 2009, as a satellite workshop of the 23rd International Workshop on Computer Science Logic, CSL 2009, in colocation with the 11th ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming, PDP 2009 and the 19th International Symposium on Logic-Based Program Synthesis and Transformation, LOPSTR 2009.

FICS is intended as a forum for researchers to present their results to those members of the computer science and logic communities who study or apply the theory of fixed points. FICS was initiated by Zoltán Ésik. The five previous workshops of the series were held in Brno (1998, MFCS/CSL workshop), Paris (2000, LC workshop), Florence (2001, PLI workshop), Copenhagen (2002, LICS (FLoC) workshop), Warsaw (2003, ETAPS workshop). Selected papers from these workshops were published in *Theor. Inf. Appl.* 33(4–5) (1999), *J. Log. Comput.* 12(2) (2002), *Theor. Inf. Appl.* 36(2) (2002), *Theor. Inf. Appl.* 37(4) (2003), *Theor. Inf. Appl.* 38(4) (2004).

The two-day programme of FICS 2009 consisted of three invited and 15 contributed talks. The invited talks were delivered by Robin Cockett (University of Calgary), Javier Esparza (Technische Universität München) and Yde Venema (Universiteit van Amsterdam). The contributed talks were selected by an international programme committee based on 22 submitted extended abstracts. The informal proceedings volume of the workshop was published by the Institute of Cybernetics, Tallinn.

This issue of *Theor. Inf. Appl.* comprises full papers corresponding to five of the contributed talks of FICS 2009. A further long article (fundamental study) documenting the invited talk of Cockett on implicit computational complexity, categorical programming and inductive and coinductive types will appear elsewhere.

We are grateful to Zoltán Ésik for entrusting us to organize FICS 2009, to our programme committee for their work in preparation of the workshop and to Christian Choffrut and Olivier Serre for agreeing to publish this special issue.

The hardest work on this selection of papers was done by the diligent referees that we were lucky to be able to recruit for the occasion, both from within our programme committee and outside: Luca Aceto, Henrik Björklund, Julian Bradfield, Valeria da Paiva, Ugo Dal Lago, Anuj Dawar, Deepak D'Souza, Martin Fränzle, Martin Hyland, Stephan Kreutzer, John Longley, Guy McCusker, Paul-André Melliès, Andrzej Murawski, Joshua Sack, Luigi Santocanale, Ulrich Schöpp, Varmo Vene and Igor Walukiewicz.

We are indebted to the organizing committee of CSL/PPDP/LOPSTR 2009, in particular Reinhard Kahle, José Espírito Santo and Pedro Quaresma, for offering us to host FICS and for taking care of all practical arrangements.

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