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12TH WORKSHOP ON LOGIC, LANGUAGE, INFORMATION AND COMPUTATION (WoLLIC '2005)

CO-SPONSORED BY THE ASSOCIATION FOR SYMBOLIC LOGIC

Florianópolis (Santa Catarina), Brazil
July 19-22, 2005

The 12th Workshop on Logic, Language, Information and Computation (WoLLIC'2005) was held at Jurerê Beach Village, Florianópolis, Santa Catarina, Brazil, from July 19th to 22nd, 2005. It was the twefth in a series of workshops that started in 1994 with the aim of fostering interdisciplinary research in pure and applied logic.

The workshop had the scientific sponsorship of the Interest Group in Pure and Applied Logics (IGPL), the European Association for Logic, Language and Information (FoLLI), the Association for Symbolic Logic (ASL), the European Association for Theoretical Computer Science (EATCS), the Brazilian Computer Science Society (SBC), and the Brazilian Logic Society (SBL). Funding was provided by CAPES (Brazilian Ministry of Education), and FAPESC (Fundação de Apoio à Pesquisa Científica e Tecnológica do Estado de Santa Catarina).

The members of the Program Committee included: Eric Allender (Rutgers, the State University of NJ, USA), Saugata Basu (Georgia Tech, USA), Peter Clote (Boston College, USA), Jörg Flum (Albert-Ludwigs-Universität Freiburg, Germany), Didier Galmiche (LORIA, Université Henri Poincaré, France), Andreas Herzig (IRIT, France), Jean-Baptiste Joinet (Université Paris 7, France), Makoto Kanazawa (National Institute of Informatics, Japan), Yoshiharu Kohayakawa (Universidade de São Paulo, Brazil), Angus Macintyre (Queen Mary College, University of London, UK; Chair), Luiz Carlos Pereira (PUC-Rio & Universidade Federal do Rio de Janeiro, Brazil), Hans Rott (Universität Regensburg, Germany), Richmond Thomason (University of Michigan, USA), Yde Venema (Universiteit Amsterdam, The Netherlands), Andrei Voronkov (Manchester University, UK), Marek Zaionc (Jagiellonian University, Poland).

The Organizing Committee members were: Gleifer Vaz Alves, (Universidade Federal de Pernambuco, Brazil), Guilherme Bittencourt (Universidade Federal de Santa Catarina, Brazil; Co-Chair), Eder Nunes Mateus Gonçalves (Universidade Federal de Santa Catarina, Brazil), Jerusa Marchi (Universidade Federal de Santa Catarina, Brazil), Anjolina Grisi de Oliveira (Universidade Federal de Pernambuco, Brazil), Anderson Luiz Fernandes Perez (Universidade Federal de Santa Catarina, Brazil), Eliane Pozzebon (Universidade Federal de Santa Catarina, Brazil), Ruy de Queiroz (Universidade Federal de Pernambuco, Brazil; Co-Chair).

There were five invited talks:

Melvin Fitting (Dept. of Mathematics and Computer Science, Lehman College, CUNY, USA), *A quantified logic of evidence*.

Jean-Louis Krivine (Equipe Preuves, Programmes et Systèmes, Université Paris 7, France), *A program for the axiom of dependent choice*.

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Leonid Libkin (Department of Computer Science, University of Toronto, Canada), *Locality of queries and transformations*.

Grigori Mints (Dept. of Philosophy, and (by courtesy) Mathematics and Computer Science, Stanford University, USA), *Intuitionistic Frege Systems are polynomially equivalent*.

Joel Spencer (Courant Institute, New York University, USA), *The complexity of random ordered structures*.

The following tutorial lectures were presented (two hours each):

Logics of explicit evidence, by Melvin Fitting.
Curry-Howard correspondence in classical set theory, by Jean-Louis Krivine.
How to analyze expressiveness of logics over finite models, by Leonid Libkin.
A simple substitution method for ID1, by Grigori Mints.
The strange logic of random graphs, by Joel Spencer.

Twenty-four papers were submitted from all over the world, out of which twelve were selected for presentation at the meeting.

The abstracts of papers presented at the meeting will be published in the ***Logic Journal of the Interest Group in Pure and Applied Logics***, (`http://www.oup.co.uk/igpl`). A volume of the series *Electronic Notes in Theoretical Computer Science*, published by Elsevier (see `http://www.math.tulane.edu/~entcs`), will contain the proceedings of the meeting.

Webpage: `http://www.cin.ufpe.br/~wollic/wollic2005/`

For the Organising Committee
RUY J.G.B. DE QUEIROZ