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17TH WORKSHOP ON LOGIC, LANGUAGE, INFORMATION AND COMPUTATION (WoLLIC 2010)

CO-SPONSORED BY THE ASSOCIATION FOR SYMBOLIC LOGIC

Brasília, Brazil
July 6–9, 2010

The 17th Workshop on Logic, Language, Information and Computation (WoLLIC 2010) was held in Brasília, Brazil, from June 6th to 9th, 2010, at FINATEC, campus of Universidade de Brasília. It was the seventeenth 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 Association for Symbolic Logic (ASL), the Association for Logic, Language and Information (FoLLI), the Interest Group in Pure and Applied Logics (IGPL), the European Association for Theoretical Computer Science (EATCS), the Brazilian Computer Science Society (SBC), and the Brazilian Logic Society (SBL).

The members of the Program Committee were: Verónica Becher (Buenos Aires), Raffaella Bernardi (Bolzano), Ricardo Bianconi (Sao Paulo), Vasco Brattka (Cape Town), Balder ten Cate (Santa Cruz), Bob Coecke (Oxford), Adriana Compagnoni (Stevens), Marcelo Coniglio (Campinas), Anuj Dawar (Cambridge, Chair), Valentin Goranko (Copenhagen), Masahito Hasegawa (Kyoto), Rosalie Iemhoff (Utrecht) Makoto Kanazawa (Tokyo), Giuseppe Longo (Paris), Mike Mislove (Tulane), Michael Norrish (Canberra), Bart Selman (Ithaca), Scott Weinstein (Philadelphia).

The Organizing Committee members were: Mauricio Ayala-Rincon (Universidade de Brasília) (Co-Chair), Flávio L. C. Moura (Universidade de Brasília), Claudia Nalon (Universidade de Brasília), Anjolina G. de Oliveira (Universidade Federal de Pernambuco, Brazil), Ruy de Queiroz (Universidade Federal de Pernambuco, Brazil) (Co-Chair).

There were seven invited talks:

Marcelo Finger (University of São Paulo), *Algebraic multipliers: a new characterization of validity for classical and many-valued logics*.

Michiel van Lambalgen (University of Amsterdam), *Logical form as a determinant in cognitive processes*.

Martin Lange (University of Kassel), *A CTL-based logic for program abstractions*.

Johann (Janos) A. Makowsky (Technion), *Interpretations of combinatorial sequences*.

Ian Pratt-Hartmann (University of Manchester), *Logics with counting quantifiers*.

Sebastiaan A. Terwijn (Radboud University Nijmegen), *Computability theoretic interpretations of intuitionistic logic*.

Cesare Tinelli (University of Iowa), *Foundations of satisfiability modulo theories*.

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The following tutorial lectures were presented:

Satisfiability and probabilistic satisfiability, by Marcelo Finger.
Probabilistic reasoning is non-monotonic, but not all non-monotonic reasoning can be represented in probability theory, by Michiel van Lambalgen.
Two lectures on the model theory of graph polynomials, by Johann (Janos) Makowsky.
Intuitionistic logic and computability theory, by Sebastiaan Terwijn.

As a special event, there was a screening of the film *I want to be a mathematician: A conversation with Paul Halmos*, directed by George Csicsery.

The Program Committee received 32 submissions out of which 13 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`). Volume 6188 of the series Lecture Notes in Computer Science (FoLLI LNAI subline), published by Springer, contains the proceedings of the meeting. A special issue of the ***Journal of Computer and System Sciences***, guest edited by A. Dawar and R. de Queiroz, will include the peer-reviewed full versions of a selection of papers.

ANUJ DAWAR (Program Chair)
MAURICIO AYALA-RINCON (Organizing Committee Co-Chair)
RUY DE QUEIROZ (Organizing Committee Co-Chair)

Webpage: `http://wollic.org/wollic2010/`