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14TH WORKSHOP ON LOGIC, LANGUAGE, INFORMATION AND COMPUTATION (WoLLIC 2007)

CO-SPONSORED BY THE ASSOCIATION FOR SYMBOLIC LOGIC

Rio de Janeiro, Brazil
July 2–5, 2007

The 14th Workshop on Logic, Language, Information and Computation (WoLLIC 2007) was held in Rio de Janeiro, from July 2nd to 5th, 2007, at the Instituto Militar de Engenharia (IME). It was the fourteenth 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 European 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). Funding was provided by The Brazilian Ministry of Education (CAPES) (grant PAEP-0755/06-0), Universidade Federal Fluminense (UFF), and Sociedade Brasileira de Computação (SBC).

The members of the Program Committee were: Samson Abramsky (University of Oxford), Michael Benedikt (Bell Labs), Lars Birkedal (ITU Copenhagen), Andreas Blass (University of Michigan), Thierry Coquand (Chalmers University, Goteborg), Jan van Eijck (CWI, Amsterdam), Marcelo Finger (University of Sao Paulo), Rob Goldblatt (Victoria University, Wellington), Yuri Gurevich (Microsoft Redmond), Hermann Haeusler (PUC Rio), Masami Hagiya (Tokyo University), Joseph Halpern (Cornell University), John Harrison (Intel UK), Wilfrid Hodges (University of London/QM), Phokion Kolaitis (IBM Almaden Research Center), Marta Kwiatkowska (University of Birmingham), Daniel Leivant (Indiana University) (Chair), Maurizio Lenzerini (University of Rome), Jean-Yves Marion (LORIA Nancy), Dale Miller (Polytechnique Paris), John Mitchell (Stanford University), Lawrence Moss (Indiana University), Peter O'Hearn (University of London/QM), Prakash Panangaden (McGill, Montreal), Christine Paulin-Mohring (Paris-Sud, Orsay), Alexander Razborov (Steklov, Moscow), Helmut Schwichtenberg (Munich University), Jouko Väänänen (University of Helsinki).

The Organizing Committee members were: Marcelo da Silva Correa (Universidade Federal de Fluminense), Renata P. de Freitas (Universidade Federal de Fluminense), Ana Teresa Martins (Universidade Federal de Ceará), Anjolina de Oliveira (Universidade Federal de Pernambuco), Ruy de Queiroz (Universidade Federal de Pernambuco, co-chair), Petrucio Viana (Universidade Federal de Fluminense, co-chair).

There were twelve invited talks:

Alex Borgida (Rutgers) *Description Logics: formal foundations and applications*.

Alessandra Carbone (Paris) (1) *Group theory and classical proofs*; (2) *Genome synthesis and genomic functional cores*.

Martín Escardó (Birmingham) *Algorithmic topology of program types*.

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Philippa Gardner (Imperial College) *Context logic and tree update*.
Achim Jung (Birmingham), *On the interplay of logic and information: a topological analysis*.
Louis Kauffman (University of Illinois Chicago) (1) *Spin networks, quantum Topology, and quantum computation*; (2) *Biologic*.
Michael Moortgat (Utrecht) *Symmetries in natural language syntax and semantics: the Lambek-Grishin calculus*.
Paulo Oliva (London/QM) *Computational interpretations of classical linear logic*.
John Reif (Duke) *Autonomous programmable biomolecular devices using self-assembled DNA nanostructures Specifying properties of data*.
Yde Venema (Amsterdam) *A modal distributive law*.

The following tutorial lectures were presented:

Stone duality, by Achim Jung.
Quantum topology and quantum computation, by Louis Kauffman.
Biological computing, by John Reif.

The Program Committee received 52 complete submissions out of which 21 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 4576 of the series Lecture Notes in Computer Science, published by Springer (`http://www.springer.com/lncs`), contains the proceedings of the meeting. A special issue of ***Information and Computation***, guest edited by D. Leivant (contributed papers) and R. de Queiroz (invited papers), will include the peer-reviewed full versions of papers.

DANIEL LEIVANT (Program Chair)
RUY J. G. B. DE QUEROZ (General Chair)

Webpage: `http://www.cin.ufpe.br/~wollic/wollic2007/`