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5TH WORKSHOP ON LOGIC, LANGUAGE, INFORMATION AND COMPUTATION (WoLLIC '98)

CO-SPONSORED BY THE ASSOCIATION FOR SYMBOLIC LOGIC

University of Sao Paulo (Sao Paulo), Brazil, July 28–31, 1998

The 5th Workshop on Logic, Language, Information and Computation (WoLLIC '98) was held in the Institute of Mathematics and Statistics (IME) of the University of Sao Paulo (USP), Sao Paulo, Brazil, from July 28–31, 1998. This was the fifth in a series of workshops which started in 1994 with the aim of fostering interdisciplinary research in logic, language, information, and computation. Previous workshops were held at: Recife (Pernambuco, Brazil) in 1994 and 1995, Salvador (Bahia, Brazil) in 1996, and Fortaleza (Ceará, Brazil in 1997). It is planned to hold the next WoLLIC in May of 1999 in the mountainous town of Itatiaia, 150 km from Rio de Janeiro, in conjunction with the Brazilian Symposium of Mathematical Logic (EBL '99). 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 Brazilian Computer Science Society (SBC), and the Brazilian Logic Society (SBL). Funding was given by CNPq (Brazilian Research Council, Ministry of Science and Technology), CAPES (Brazilian Ministry of Education), FAPESP (Foundation for the Support of Science of the State of Sao Paulo), and the University of Sao Paulo (USP).

The Program Committee consisted of: Andreas Blass (University of Michigan, USA), Itala D'Ottaviano (University of Campinas, BR), J. Michael Dunn (Indiana University, USA), Wilfrid Hodges (Queen Mary College, UK), Francisco Miraglia (University of Sao Paulo, BR), Luiz Carlos Pereira (Catholic University of Rio, BR), Andrew Pitts (Cambridge University, UK), and Amir Pnueli (Weizmann Institute, Israel). The Organizing Committee consisted of: L. S. C. Baptista (UFPE/UFPB), M. Finger (USP) (Co-Chair), E. Hermann Haeusler (PUC-Rio), A. V. C. de Melo (USP), A. G. de Oliveira (UFBA/UFPE), R. de Queiroz (UFPE) (Co-Chair), and F. C. da Silva (USP).

There were nine invited talks:

Sergei Artemov (Moscow State University and Cornell University), *Logic of proofs*.

Sam Buss (University of California, San Diego), *The complexity of the disjunction and existential properties*.

Edmund Clarke, Jr. (Carnegie Mellon University), *Symbolic model checking*.

Heinz Dieter Ebbinghaus (University of Freiburg), *Is there a logic for polynomial time?*

Hans Kamp (University of Stuttgart), *Non-standard semantics for quantifiers and their logical implications*.

Phokion Kolaitis (University of California, Santa Cruz), *On the boundedness problem for fragments of first-order logic*.

Maarten de Rijke (University of Amsterdam), *Managing fragments*.

Valeria de Paiva (Birmingham University), *xSLAM: The eXplicit Substitutions Linear*

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Abstract Machine or implementing linear logic.

Giovanni Sambin (University of Padoa), *Formal topology via the basic picture*.

On July 28, seven tutorial lectures (two hours each) were given:

Sergei Artemov, *Provability operators*.
Sam Buss, *Complexity of proofs and computation*.
Edmund Clarke, Jr., *Model checking*.
Heinz Dieter Ebbinghaus, *Descriptive complexity*.
Hans Kamp, *Discourse representation structures*.
Maarten de Rijke, *From modal logics to standard logics*.
Giovanni Sambin, *An introduction to 'basic logic'*.

Thirty-three short papers were submitted from all over the world, out of which twenty-four 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***, Volume 7 (`http://www.oup.co.uk/igpl`). A Special Issue of the ***Journal*** will be published early in 1999 with the full version of the invited papers, as well as a selection of contributed papers.

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