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13TH WORKSHOP ON LOGIC, LANGUAGE, INFORMATION AND COMPUTATION (WoLLIC '2006)

CO-SPONSORED BY THE ASSOCIATION FOR SYMBOLIC LOGIC

CSLI, Stanford, USA
July 18–21, 2006

The 13th Workshop on Logic, Language, Information and Computation (WoLLIC'2006) was held at the Center for the Study of Language and Information (CSLI), Stanford University, from July 18th to 21st, 2006. It was the thirteenth 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 The Tinker Foundation, The Office of the Provost (Stanford University), CSLI, Department of Philosophy (Stanford University), Department of Mathematics (Stanford University), and Symbolic Systems Program (Stanford University).

The members of the Program Committee included: Jeremy Avigad (Carnegie Mellon University, USA), Johan van Benthem (University of Amsterdam, and Stanford University, USA), Martin Davis (Courant Institute of Mathematical Sciences, NYU, USA), Keith Devlin (CSLI, Stanford, USA), Edward A. Hirsch (St. Petersburg Department of the Steklov Institute of Mathematics, Russia), Greg Hjorth (UCLA, USA), David Israel (SRI International, Stanford, USA), Vladik Kreinovich (University of Texas at El Paso, USA), Leonid Levin (Boston University, USA), Grigori Mints (Stanford University, USA; Chair), Itay Neeman (UCLA, USA), Hiroakira Ono (Japan Advanced Institute of Science and Technology, Japan), Stanley Peters (Stanford University, USA), Wolfram Pohlers (WWU Münster, Germany), Vaughan Pratt (Stanford University, and Tiqit Computers, USA), and Thomas Scanlon (University of California at Berkeley, USA).

The Organizing Committee members were: Alexei Angelides (Stanford University, USA), Anjolina Grisi de Oliveira (Universidade Federal de Pernambuco, Brazil), Valéria de Paiva (PARC, USA; Co-Chair), Marc Pauly (Stanford University, USA), and Ruy de Queiroz (Universidade Federal de Pernambuco, Brazil; Co-Chair).

There were six invited talks:

Eli Ben-Sasson (Computer Science Department, Technion Institute of Technology, Israel), *New insights into probabilistically checkable proofs (PCPs)*.

Solomon Feferman (Departments of Mathematics and Philosophy, Stanford University, USA) *Operational theories of sets*.

Yuri Gurevich (Microsoft Research, USA), *The expanding notion of algorithm*.

Ulrich Kohlenbach (Department of Mathematics, Darmstadt University of Technology, Germany) *A logical uniform boundedness principle for abstract metric and hyperbolic spaces*.

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Thomas Scanlon (Mathematics Department, University of California at Berkeley, USA), *A logical approach to uniformity in Diophantine geometry*.

Andre Scedrov (Department of Mathematics, University of Pennsylvania, USA), *Symbolic analysis of computer network security protocols*.

July 18 was the "tutorial day", and the following tutorial lectures were presented (two hours each):

New insights into probabilistically checkable proofs (PCPs), by Eli Ben-Sasson.
Operational theories of sets, by Solomon Feferman.
Behavioral computation theory, by Yuri Gurevich.
Proof mining: Applications of proof theory to analysis, by Ulrich Kohlenbach.
Relative categoricity for finitely generated fields, by Thomas Scanlon.
Symbolic analysis of computer network security protocols, by Andre Scedrov.

Thirty 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`). Volume 165 of the series *Electronic Notes in Theoretical Computer Science*, published by Elsevier (`http://www.entcs.org`), will contain the proceedings of the meeting. A special issue of ***Information and Computation***, guest edited by G. Mints, V. de Paiva, and R. de Queiroz, will include the peer-reviewed full version of papers.

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

Webpage: `http://www.cin.ufpe.br/~wollic/wollic2006/`