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18TH WORKSHOP ON LOGIC, LANGUAGE, INFORMATION AND COMPUTATION (WoLLIC 2011)

CO-SPONSORED BY THE ASSOCIATION FOR SYMBOLIC LOGIC

Philadelphia, PA, USA
May 18–20, 2011

The 18th Workshop on Logic, Language, Information and Computation (WoLLIC 2011) was held in Philadelphia, PA, USA, from May 18th to 20th, 2011, at the David Rittenhouse Laboratory, Department of Mathematics, University of Pennsylvania. It was the eigthteenth 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 European Association for Computer Science Logic (EACSL), the Brazilian Computer Science Society (SBC), and the Brazilian Logic Society (SBL).

The members of the Program Committee were: Sergei Artemov (New York), Jeremy Avigad (Pittsburgh), Arnold Beckman (Swansea), Lev Beklemishev (Moscow, Chair), Alessandro Berarducci (Pisa), Andreas Blass (Ann Arbor), Sam Buss (San Diego), Achim Jung (Birmingham), Benedikt Löwe (Amsterdam), Janos Makowsky (Haifa), Michael Moortgat (Utrecht), Vincent van Oostrom (Utrecht), Prakash Panangaden (Montréal), Rohit Parikh (New York), Ruy de Queiroz (Recife), Alexander Shen (Marseilles and Moscow), Bas Spitters (Nijmegen), Helmut Veith (Wien), Yde Venema (Amsterdam), Scott Weinstein (Philadelphia), Frank Wolter (Liverpool).

The Organizing Committee members were: Vivek Nigam (University of Pennsylvania), Anjolina G. de Oliveira (Universidade Federal de Pernambuco, Brazil), Ruy de Queiroz (Universidade Federal de Pernambuco, Brazil) (Co-Chair), Andre Scedrov (University of Pennsylvania) (Co-Chair).

There were six invited talks:

Rajeev Alur (University of Pennsylvania), *Streaming string transducers*.

Max Kanovich (Queen Mary College), *Bounded memory Dolev-Yao adversaries in collaborative systems*.

John Mitchell (Stanford University), *A symbolic logic with exact bounds for cryptographic protocols*.

Vladimir Voevodsky (Institute of Advanced Study), *Univalent foundations of mathematics*.

Yoad Winter (Utrecht University), *Relational concepts and the logic of reciprocity*.

Michael Zakharyaschev (Birkbeck College), *Logic in the time of WWW: an OWL view*.

There was a Special Session honoring Max Kanovich on the occasion of his sixty-fifth birthday. Speakers included John Mitchell, Mitsuhiro Okada, and Paul Rowe.

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The Program Committee received 45 submissions out of which 20 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 6642 of the series Lecture Notes in Computer Science (FoLLI LNAI subline), published by Springer, contains the proceedings of the meeting. A special issue of ***Journal of Computer and System Sciences***, guest edited by L. Beklemishev, R. de Queiroz and A. Scedrov, will include the peer-reviewed full versions of a selection of papers.

LEV BEKLEMISHEV (Program Chair)
RUY DE QUEIROZ (Organizing Committee Co-Chair)
ANDRE SCEDROV (Organizing Committee Co-Chair)

WEBIPAGE: `http://wollic.org/wollic2011/`