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16TH WORKSHOP ON LOGIC, LANGUAGE, INFORMATION AND COMPUTATION (WoLLIC 2009)

CO-SPONSORED BY THE ASSOCIATION FOR SYMBOLIC LOGIC

Tokyo, Japan
July 21–24, 2009

The 16th Workshop on Logic, Language, Information and Computation (WoLLIC 2009) was held in Tokyo, Japan, from June 21st to 24th, 2009, at the National Center of Sciences. It was the sixteenth 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: Toshiyasu Arai (Kobe), Matthias Baaz (Technische Universität Wien, Austria), Alexandru Baltag (Oxford), Josep Maria Font (Barcelona), Silvio Ghilardi (Milano), Katsumi Inoue (National Institute of Informatics, Japan), Marcus Kracht (Bielefeld), Hiroakira Ono (JAIST, Japan) (Chair), Masanao Ozawa (Nagoya), John Slaney (Australian National University), Mark Steedman (Edinburgh), Hans Tompits (Technische Universität Wien, Austria).

The Organizing Committee members were: Makoto Kanazawa (National Institute of Informatics, Japan) (Co-Chair), Anjolina G. de Oliveira (Universidade Federal de Pernambuco, Brazil), Ruy de Queiroz (Universidade Federal de Pernambuco, Brazil) (Co-Chair), Ken Satoh (National Institute of Informatics, Japan).

There were six invited talks:

Arnold Beckmann (Swansea University), *New characterizations of definable search problems*.

Carlos Caleiro (Technical University of Lisbon), *Algebraic valuations as behavioral logical matrices*.

Thomas Eiter (Vienna University of Technology), *Knot-based query answering in description logic*.

Sylvain Salvati (INRIA Bordeaux - Sud Ouest/LaBRI), *Recognizability in the simply typed lambda-calculus*.

Taisuke Sato (Tokyo Institute of Technology), *Logic-based probabilistic modeling*.

Frank Wolter (University of Liverpool), *From Mathematical logic to life science ontologies*.

The following tutorial lectures were presented:

Definable search problems in bounded arithmetic, by Arnold Beckmann.

Reasoning using knots, by Thomas Eiter.

From mathematical logic to life science ontologies, by Frank Wolter.

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As a special event, there was a screening of the film *N is a Number: A Portrait of Paul Erdös* by George Csicsery.

The Program Committee received 57 complete submissions out of which 25 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 5514 of the series Lecture Notes in Computer Science (FoLLI LNAI subline), published by Springer, contains the proceedings of the meeting. A special issue of ***Fundamenta Informaticae***, guest edited by H. Ono, M. Kanazawa and R. de Queiroz, will include the peer-reviewed full versions of papers.

Hiroakira Ono (Program Chair)
Makoto Kanazawa (Organizing Committee Co-Chair)
Ruy de Queiroz (Organizing Committee Co-Chair)

Webpage: `http://wollic.org/wollic2009/`