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23rd Workshop on Logic, Language, Information and Computation (WoLLIC 2016)

co-sponsored by the Association for Symbolic Logic : Puebla, Mexico, August 16–19, 2016

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23RD WORKSHOP ON LOGIC, LANGUAGE, INFORMATION AND COMPUTATION (WoLLIC 2016)

CO-SPONSORED BY THE ASSOCIATION FOR SYMBOLIC LOGIC

Puebla, Mexico
August 16–19, 2016

The 23rd Workshop on Logic, Language, Information and Computation (WoLLIC 2016) was held in Puebla, Mexico, from August 16th to 19th, hosted by Benemerita Universidad Autonoma de Puebla (BUAP) and with support from the Computer Science Department and the Mathematics Department. It was the twenty-third 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), Association for Logic, Language and Information (FoLLI), Interest Group in Pure and Applied Logics (IGPL), European Association for Theoretical Computer Science (EATCS), European Association for Computer Science Logic (EACSL), Brazilian Computer Science Society (SBC), and Brazilian Logic Society (SBL).

The members of the Program Committee were: S. Abramsky (Oxford University), D. Berganger (Université Paris-Saclay), G. Bezhanishvili (New Mexico State University), A. Durand (Université Paris Diderot, Paris 7), P. Galliani (University of Helsinki), N. Gierasimczuk (University of Amsterdam), J. Groenendijk (University of Amsterdam), L. Hella (Tampere University), W. Holliday (University of California, Berkeley), J. Kontinen (University of Helsinki), L. Moss (Indiana University), A. Nies (University of Auckland), A. Ranta (Chalmers University), M. Sadrzadeh (Queen Mary College, London), N. Short (Aix-Marseille Université), J. Väänänen (University of Helsinki and University of Amsterdam, Chair), R. Verbrugge (University of Groningen), H. Vollmer (University of Hannover), D. Westerstahl (Stockholm University).

The Organizing Committee was: C. Zepeda Cortés (BUAP, Local co-chair), M. Osorio Galindo (UDLAP, Local co-chair), A. G. de Oliveira (Universidade Federal de Pernambuco), R. de Queiroz (Universidade Federal de Pernambuco, Co-chair), J. R. Arrazola Ramírez (BUAP, Local co-chair), and several members of the Cuerpo Académico Cómputo Distribuido CA-161 PRODEP (BUAP).

There were six invited talks:

Pablo Barceló (Universidad de Chile), *Semantic acyclicity for conjunctive queries: approximations and constraints*.

Dana Bartosová (University of Toronto), *Ultrafilters in dynamics and Ramsey theory*.

Johann A. Makowsky (Technion – Israel Institute of Technology), *Semantic equivalence of graph polynomials definable in second order logic*.

Alessandra Palmigiano (TU Delft), *Proof systems for the logics for social behavior*.

Sonja Smets (University of Amsterdam), *Informational cascades: a test for rationality?*

Andres Villaveces (Universidad Nacional de Colombia), *Sheaves of metric structures*.

The invited talk by Dana Bartosová had to be delivered by a remote video connection due to unforeseen circumstances.

The program also included the following tutorial lectures: *Belief dynamics in a social context* by Sonja Smets; *Generalized amalgamation classes and limit models: implicit logics* by Andres Villaveces; *Query languages for graph databases* by Pablo Barceló; *Sahlqvist correspondence via duality and its applications* by Alessandra Palmigiano; *When is $P = NP$ over arbitrary structures?* by Johann Makowsky.

On the morning of August 16th, a special session was held in a tribute to the memory and the legacy of Solomon Feferman (December 13, 1928–July 26, 2016), with presentations by John Baldwin, Johann Makowsky, and Jouko Väänänen. Written testimonies were sent by Valeria de Paiva and Wilfried Sieg, the latter having arrived in time to be read during the session.

On the evening of August 16th, a special screening of a movie about a mathematician was held at the Paraninfo (BUAP): *Counting from Infinity—Yitang Zhang and the Twin Prime Conjecture*, directed by George Csicsery, (2015, 55 min).

The Program Committee received 46 submissions out of which 23 were selected for presentation.

The abstracts of papers presented at the meeting will be published in the *Logic Journal of the Interest Group in Pure and Applied Logics* (Oxford University Press). The proceedings of the meeting were published as vol. 9803 of the series *Lecture Notes in Computer Science* (FoLLI subseries), published by Springer. A special issue of the *Annals of Pure and Applied Logic*, guest edited by R. de Queiroz and J. Väänänen, will include the peer-reviewed full versions of a selection of papers.

JOUKO VÄÄNÄNEN (Program Chair)

RUY DE QUEIROZ (Org Comm Co-Chair)

MAURICIO OSORIO GALINDO (Local Co-Chair)

CLAUDIA ZEPEDA CORTÉS (Local Co-Chair)

JOSÉ R. ARRAZOLA RAMÍREZ (Local Co-Chair)

Webpage: <http://wollic.org/wollic2016/>