THE BULLETIN OF SYMBOLIC LOGIC
Volume 19, Number 3, Sept. 2013

# 19TH WORKSHOP ON LOGIC, LANGUAGE, INFORMATION AND COMPUTATION (WoLLIC 2012)

CO-SPONSORED BY THE ASSOCIATION FOR SYMBOLIC LOGIC

**Buenos Aires, Argentina**
**September 3–6, 2012**

The 19th Workshop on Logic, Language, Information and Computation (WoLLIC 2012) was held in Buenos Aires, Argentina September 3–6, 2012, at the Facultad de Ciencias Económicas of the Universidad de Buenos Aires. It was the nineteenth 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: Carlos Areces (Cordoba), Marcelo Arenas (Santiago), Steve Awodey (Pittsburgh), Verónica Becher (Buenos Aires), Patrick Blackburn (Roskilde), Maribel Fernandez (London), Santiago Figueira (Buenos Aires), Marcelo Finger (São Paulo), Marcelo Fiore (Cambridge), Yuxi Fu (Shanghai), Rosalie Iemhoff (Utrecht), Neil Immerman (Amherst), Jean-Pierre Jouannaud (Paris), Makoto Kanazawa (Tokyo), Delia Kesner (Paris), Dexter Kozen (Ithaca), Martin Lange (Kassel), Benedikt Löwe (Amsterdam), Dag Normann (Oslo), Luke Ong (Oxford, Chair), Erik Palmgren (Uppsala), Sylvain Salvati (Bordeaux), Philippe Schnoebelen (Cachan), Fernando Souza (Recife), Kazushige Terui (Kyoto).

The Organizing Committee members were: C. Areces (Universidad Nacional de Córdoba) (Local Co-chair), S. Figueira (Universidad de Buenos Aires) (Local Co-chair), J. Legris (Universidad de Buenos Aires) (Local Co-chair), R. de Queiroz (Universidade Federal de Pernambuco, Brazil) (Co-chair), A. G. de Oliveira (Universidade Federal de Pernambuco, Brazil).

There were eight invited talks:

Andrea Asperti (Bologna), *Formalizing Turing Machines*.

Hans van Ditmarsch (Sevilla), *Quantifying over information change*.

Laura Kallmeyer (Düsseldorf), *Syntax-driven semantic frame composition in lexicalized tree adjoining grammars*.

George Metcalfe (Bern), *Admissible rules: From characterizations to applications*.

Anca Muscholl (Bordeaux), *On distributed control and monitoring*.

Andre Nies (Auckland), *Interactions of computability and randomness*.

Nicole Schweikardt (Frankfurt), *On the expressive power of logics with invariant uses of arithmetic predicates*.

Peter Selinger (Halifax), *Logical methods in quantum information theory*.


1079-8986/13/1903-0006/$1.20
DOI:10.2178/bsl.1903060

The program also included four tutorial lectures: (1) *Curry-Howard for justification logic* by E. Bonelli (Quilmes); (2) *Introduction to dynamic epistemic logic* by H. van Ditmarsch (Sevilla); (3) *Order-invariant logics* by N. Schweikardt (Frankfurt); (4) *Semantics of quantum computation* by P. Selinger (Halifax).

The Program Committee received 64 submissions out of which 16 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`). Vol. 7456 of the series *Lecture Notes in Computer Science* (FoLLI subseries), published by Springer, contains the proceedings of the meeting. A special issue of *Theoretical Computer Science*, guest edited by L. Ong and R. de Queiroz, will include the peer-reviewed full versions of a selection of papers.

Luke Ong
(PROGRAM CHAIR)
Carlos Areces
(ORGANIZING COMMITTEE CO-CHAIR)
Santiago Figueira
(ORGANIZING COMMITTEE CO-CHAIR)
Ruy de Queiroz
(ORGANIZING COMMITTEE CO-CHAIR)

Webpage: `http://wollic.org/wollic2012/`