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XVI BRAZILIAN LOGIC CONFERENCE
(EBL 2011)

CO-SPONSORED BY THE ASSOCIATION FOR SYMBOLIC LOGIC

Petrópolis, Rio de Janeiro, Brazil
May 9–13, 2011

The 16th Brazilian Logic Conference (EBL 2011) was held in Petrópolis, from May 9th to 13th, 2011, at the Laboratório Nacional de Computação Científica (LNCC). It was the sixteenth in a series of conferences that started in 1977 with the aim of congregating logicians from Brazil and abroad, furthering interest in logic and its applications, stimulating cooperation, and contributing to the development of this branch of science.

EBL 2011 included more than one-hundred and fifty participants, all of them belonging to prominent research institutes from Brazil and abroad, especially Latin America.

The conference was sponsored by the Academia Brasileira de Ciências (ABC), the Association for Symbolic Logic (ASL), Universidade Estadual de Campinas (UNICAMP), Centre for Logic, Epistemology and the History of Sciences (CLE), Laboratório Nacional de Computação Científica (LNCC), Pontifícia Universidade Católica do Rio de Janeiro (PUC-Rio), Sociedade Brasileira de Lógica (SBL), and Universidade Federal Fluminense (UFF).

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The members of the Scientific Committee were: Mário Folhadela Benevides (COPPE-UFRJ), Fábio Bertato (CLE-IFCH-UNICAMP), Jean-Yves Béziau (UFRJ), Ricardo Bianconi (USP), Juliana Bueno-Soler (UFABC), Xavier Caicedo (Universidad de Los Andes), Walter Carnielli (CLE-IFCH-UNICAMP), Oswaldo Chateaubriand Filho (PUC-Rio), Marcelo Esteban Coniglio (CLE-IFCH-UNICAMP), Newton da Costa (UFSC, President), Antonio Carlos da Rocha Costa (UFRG), Alexandre Costa-Leite (UnB), Ítala M. Loffredo D'Ottaviano (CLE-IFCH-UNICAMP), Marcelo Finger (USP), Edward Hermann Haeusler (PUC-Rio), Décio Krause (UFSC), João Marcos (UFRN), Ana Teresa de Castro Martins (UFC), Maria da Paz Nunes de Medeiros (UFRN), Francisco Miraglia (USP), Luiz Carlos Pereira (PUC-Rio and UFRJ), Elaine Pimentel (UFMG), and Samuel Gomes da Silva (UFBA).

The members of the Organizing Committee were: Anderson de Araujo (UNICAMP), Walter Carnielli (CLE-IFCH-UNICAMP), Oswaldo Chateaubriand Filho (PUC-Rio, Co-chair), Marcelo Corrêa (UFF), Renata de Freitas (UFF), Edward Hermann Haeusler (PUC-RJ), Hugo Nobrega (COPPE-UFRJ), Luiz Carlos Pereira (PUC-Rio e IFCS/UFRJ), Leandro Suguitani (UNICAMP), Rafael Testa (UNICAMP), Leonardo Bruno Vana (UFF), and Petrucio Viana (UFF, Co-chair).

Nine plenary lectures were given:

Carlos Areces (INRIA Nancy Grand Est), *Logics to describe and change*.
Carlos Caleiro (TU-IST Lisbon), *Abstract valuation semantics*.
Gregory Chaitin (IBM T. J. Watson Research Center), *Life as evolving software*.

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Newton C. A. da Costa (Federal University of Santa Catarina), *Logical form as a determinant in cognitive processes*.

Hans van Ditmarsch (University of Sevilla), *Dynamic epistemic logic*.

Richard L. Epstein (Advanced Reasoning Forum), *Reasoning about the world as process*.

Lou Goble (Willamette University), *Deontic logic (adapted) for normative conflicts*.

Carlos Di Prisco (Instituto Venezolano de Investigaciones Científicas), *A glance to Ramsey theory*.

José Iovino (University of Texas at San Antonio), *From discrete to continuous logic*.

In addition to the plenary and contributed talks there was a *Roundtable on The Future of Logic* organized by Jean-Yves Béziau (UFRJ), at which the following talks were given:

Walter Carnielli (UNICAMP), *Logic and computation*.

Oswaldo Chateaubriand (PUC-Rio), *Logica and metaphysics*.

Richard L. Epstein (Advanced Reasoning Forum), *Logic and argumentation*.

Décio Krause (UFSC), *Philosophy of science*.

Francisco Miraglia (USP), *Logics and mathematics*.

A special session on *Machines, from Turing to Quantum*, organized by Walter Carnielli (UNICAMP), included the following talks:

Anderson de Araújo (CLE-UNICAMP), *A uniform halting protocol for quantum Turing machines*.

Andrey Bovykin (University of Bristol), *Turing-complete and arithmetically-complete templates: the atlas and the theory of all possible machines*.

Gregory Chaitin (IBM T. J. Watson Research Center), *Turing as a biologist*.

Francisco Antonio Dória (PEP and COPPE-UFRJ), *On Hypercomputation*.

Manuel Dória (APIT-PEP and COPPE-UFRJ), *Computing devices as real patterns*.

There was also a *Panel Section on Critical Thinking and Logic* focusing on an exchange on teaching and pedagogical experiences, organized by Walter Carnielli (UNICAMP) and Richard L. Epstein (Advanced Reasoning Forum).

Two special issues, one of the ***Journal of Applied Non-classical Logics*** (`http://jancl.e-revues.com/acceuil.jsp`) and one of the ***Logic Journal of the IGPL*** (`http://jigpal.oxfordjournals.org/`), both guest-edited by Walter Carnielli, Renata de Freitas and Petrucio Viana, will include the peer-reviewed versions of a selection from the contributed papers presented at the conference.

EBL 2011 was preceded by the II Logic School, held at the Universidade Federal Fluminense, Campus do Valonguinho, Niterói, Rio de Janeiro, May 7th–8th, 2011. The members of the Scientific Committee of the II Logic School were Renata de Freitas (UFF) and Petrucio Viana (UFF). The Logic School was directed at undergraduate and graduate students interested in logic. Six lectures were delivered in the Logic School:

Walter Carnielli (UNICAMP) and Marcelo Coniglio (UNICAMP), *Proof theory for contemporary logic by handling polynomials over finite fields*.

Oswaldo Chateaubriand (PUC-Rio), *Logic, ontology, and epistemology*.

Marcelo Finger (USP), *Satisfiability and probabilistic satisfiability*.

João Marcos (UFRN), *Foundations of computerized theorem-proving*.

Leandro O. Suguitani (CLE-UNICAMP), Ítala M. L. D'Ottaviano (CLE-UNICAMP) and Petrucio Viana (UFF), *The algebraic tradition of logic and some relational systems*.

For the Organizing Committee
WALTER CARNIELLI
RENATA DE FREITAS
PETRUCIO VIANA

Webpage: `http://www.cle.unicamp.br/ebl2011/index.php`