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SECOND INDIAN WINTER SCHOOL ON LOGIC

CO-SPONSORED BY THE ASSOCIATION FOR SYMBOLIC LOGIC

Indian Institute of Technology, Kanpur
January 14–26, 2008

The Second Indian Winter School on Logic was held at the Indian Institute of Technology (IIT), Kanpur, during January 14–26, 2008. The series of Indian Winter Schools on Logic began in 2006, with the First School being held at IIT Bombay. The objective of this conference series is to offer students and researchers in-depth presentations of topics in logic, ranging in each case from an introduction to recent advances.

The Second School was held under the scientific sponsorship of the Association for Logic in India (ALI: `http://ali.cmi.ac.in/`), and the Association for Symbolic Logic (ASL). Funding was completely provided by the Research I Foundation, Department of Computer Science, IIT Kanpur.

The members of the Program Committee included: Sujata Ghosh (Visva-Bharati), Krishna S. (IIT Bombay), Kamal Lodaya (IMSc, Chennai), N. Raja (TIFR, Mumbai), and S. P. Suresh (CMI, Chennai). The School was co-ordinated by Mohua Banerjee and Anil Seth of the host Institute.

Apart from the speakers, there were 57 participants, comprising Masters and Ph.D. students, and other researchers actively working in logic.

Below are the themes and speakers for the School, with the number of lecture (L) and discussion (D) hours devoted to each theme included in parentheses.

Algebraic Logic (12L, 3D)

Ramon Jansana (University of Barcelona), *Algebraic semantics of logics*.
Mai Gehrke (Radboud Universiteit Nijmegen), *(Topo-) relational semantics via canonical extensions*.
Alessandra Palmigiano (ILLC Amsterdam), *Sahlqvist Theory*.

Beyond Probabilistic Uncertainty (8L, 2D)

Mihir K. Chakraborty (University of Calcutta), *Rough set and its logics*.
Didier Dubois (Institut de Recherche en Informatique deToulouse, CNRS), *Uncertainty in knowledge representation*.

Logic and Games (8L)

Eric Pacuit (Stanford University), *Foundations of game theory, social choice theory*.
Rohit Parikh (City University of New York), *Logic via games, Finite and infinite dialogues, Belief and rationality: human and animal, Knowledge and structure in social algorithms logic*.

Logic, Bisimulation and Markov Processes (4L, 1D)

Prakash Panangaden (McGill University)

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Philosophical Logic (7L,1D)

Chhanda Chakraborti (IIT Kharagpur), *Logic and ontology*.
Ranjan Mukhopadhyay (Visva-Bharati), *Philosophical issues about truth*.

Probabilistic Logic (4L, 1D)

Gregory Wheeler (CENTRIA, Lisbon)

Set Theory (11L, 3D)

Agatha Walczak-Typke (University of Vienna), *Ordinals, cofinalities, cardinals*.
S. M. Srivastava (Indian Statistical Institute, Kolkata), *Classical descriptive set theory*.
Benedikt Löwe (ILLC Amsterdam), *Infinite games*.

Universal Logic (4L)

Jean-Yves Béziau (University of Neuchâtel, Switzerland)

Participants also had an opportunity to present problems in an 'open house' session on January 24th. Lecture notes and slides are available at `http://home.iitk.ac.in/~mohua/school/th&sp.htm`.

Co-ordinators
MOHUA BANERJEE
ANIL SETH

Webpage: `http://home.iitk.ac.in/~mohua/school/school.htm`