

## Second Indian Winter School on 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 started in 2006, with the First School being held at IIT Bombay. The objective is to present before students and researchers, some topics of Logic in depth – ranging from an introduction to recent advances in each case.

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 Programme Committee were 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. One of the students was supported by ASL travel funds.

Following were the themes and speakers for the School, along with the number of lecture (L) and discussion (D) hours devoted to each theme.

### *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 de Toulouse, 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, Bisimulation and Markov Processes* (4L,1D): Prakash Panangaden (McGill University)

*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 got an opportunity to present some problems in an ‘open house’ session which was organized on January 24.

Lecture notes and slides are available at <http://home.iitk.ac.in/~mohua/school/th&sp.htm>.

Mohua Banerjee  
Anil Seth  
(Co-ordinators)

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