Preface

This volume contains the proceedings of the Fifth International Symposium on Domain Theory (ISDT2009), which was held on the campus of East China Normal University, Shanghai, Peoples Republic of China, from September 12 to September 14 in 2009. Previous symposiums have been organized in Shanghai (1999), Chengdu (2001), Xi’an (2004) and Changsha (2006).

The International Symposium on Domain Theory (ISDT) is a series of conference held in the mainland of China. It aims at providing a forum for researchers in domain theory and its applications in the formal semantics of programming languages. ISDT’s topics of interest include topological and logical aspects of domains, categories of domains and powerdomains, partial orders and metric spaces, type and concurrency theory, logic and formal verification, probabilistic systems, process algebra, quantum computing and so on.

The conference chairs of ISDT2009 were Professor Jifeng He, East China Normal University and Professor Yingming Liu, Sichuan University, China. The program committee consisted of

- Yixiang Chen, East China Normal University, China
- Ernst-Erich Doberkat, Technische Universität Dortmund, Germany
- Manfred Droste, Universität Leipzig, Germany
- Yuxi Fu, Shanghai Jiaotong University, China
- Ying Jiang, Academy of Science, China
- Achim Jung, The University of Birmingham, UK
- Klaus Keimel, Technische Universität Darmstadt, Germany
- Pascal Hitzler, Universität Karlsruhe, Germany
- Michael Huth, Imperial College London, UK
- Drew Moshier, Chapman University, USA
• Dag Normann, The University of Oslo, Norway
• Luke Ong, University of Oxford, UK
• Alex Simpson, University of Edinburgh, UK
• Dieter Spreen, Universität Siegen, Germany
• Guo-Hua Wu, Nanyang Technological University, Singapore
• Guo-Qiang Zhang, Case Western Reserve University, USA
• Min Zhang, East China Normal University, China
• Bin Zhao, Shaanxi Normal University, China
• Dongsheng Zhao, National Institute of Education, Singapore

The papers were refereed by the program committee and by several outside referees, whose help is gratefully acknowledged. A tutorial related to stochastic coalgebraic logic was given by Ernst-Erich Doberkat. The invited speakers at the symposium were

• Samson Abramsky, University of Oxford, UK
• Pierre-Louis Curien, PPS- Université Paris 7, France
• Hui Kou, Sichuan University, China
• Glynn Winskel, University of Cambridge, UK
• Guo-Qiang Zhang, Case Western Reserve University, USA

Unfortunately Professor Abramsky was unable to attend the meeting. The invited speakers were not required to submit papers for the proceedings, so we are especially pleased that Guo-Qiang Zhang submitted a full paper for the proceedings.

We are grateful to ENTCS for their support, in particular to Mike Mislove, Managing Editor of the ENTCS series.

We are very grateful to the ISDT2009 organizers, especially to Jie Zhou, for taking care of all the local organization and for accommodating all our special requests. Thanks also to Lu Han, Maoyong Han, Hui Wang and Weifan Zhang for their works for this symposium.

Y.-X. Chen
E.-E. Doberkat
A. Jung