

PREFACE

The Asian Logic Conference has occurred every three years since its inception in Singapore in 1981. It rotates among countries in the Asia Pacific region with interests in the broad area of logic including theoretical computer science. It is now considered a major conference in this field and is regularly sponsored by the Association for Symbolic Logic. This volume contains papers, many of them surveys by leading experts, of the 9th meeting in Novosibirsk, Russia.

We were very pleased to find that *World Scientific* were enthusiastic to support this venture. Authors were invited to submit articles to the present volume, based around talks given at either meeting. The editors were very concerned to make sure that the planned volume was of high quality. We think the resulting volume is fairly representative of the thriving logic groups in the Asia-Pacific region, and also fairly representative of the meetings themselves.

The Ninth Asian Logic Conference was organised by Sobolev Institute of Mathematics of the Siberian Branch of the Russian Academy of Sciences and Novosibirsk State University under the sponsorship of Russian Foundation for Basic Research, Association for Symbolic Logic, Department of Mechanics and Mathematics of Novosibirsk State University, Siberian Foundation for Algebra and Logic, Novosibirsk Center of Information Technologies UniPro Co., Ltd., LLC Alekta, and Transtext Co. Ltd.

The conference took place in Novosibirsk, Akademgorodok, Russia, from August 16 to August 19, 2005.

The programme consisted of plenary lectures delivered by invited speakers and contributions in four sections.

Plenary speakers were Pavel Alaev (Russia), Lev Beklemishev (Russia, Netherlands), Su Gao (USA), Yurii Ershov (Russia), Sanjay Jain (Singapore), Vladimir Kanovei (Russia), Bakhadyr Khossainov (New Zealand), Andrei Mantsivoda (Russia), Joe Miller (USA), Hiroakira Ono (Japan), Vladimir Rybakov (Russia, Great Britain), Masahiko Sato (Japan), Moshe Vardi (USA), Andrei Voronkov (Great Britain), Xishun Zhao (China). The total number of plenary lectures was 15. Contributed lectures on recursion

theory, set theory, proof theory, model theory and universal algebra, non-classical logic, and logic in computer science were presented in the following sections: Computability theory, Model theory and Set theory, Non-classical logics, Proof theory, and universal algebra, and Applications of logic in computer science. The total number of contributed talks was 58.

The geography of the event included Russia, China, Japan, Singapore, USA, New Zealand, Great Britain, Korea, Canada, Germany, Greece, Kazakhstan. The number of participants was about 100 scientists.

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Sincerely yours, the editors:

Rod Downey, Sergey Goncharov, and Hiroakira Ono.