

CALL FOR PAPERS

The Sixth Annual Conference on Theory and Applications of Models of Computation (TAMC'09)

<http://netlab.csu.edu.cn/TAMC09/>

May 18-22, 2009

ChangSha, P.R. China

The 6th Annual Conference on Theory and Applications of Models of Computation (TAMC'09) will be held in ChangSha, P.R. China, from May 18 to May 22, 2009. Five previous annual meetings were held in 2004-2008, in Beijing, Shanghai, and Xi'an, with enthusiastic participation from researchers all around the world.

The three main themes of the conference TAMC'09 will continue to be *Computability*, *Complexity*, and *Algorithms*. It aims to bring together researchers with interests in theoretical computer science, algorithmic mathematics, and applications to the physical sciences. Typical but not exclusive topics of interest include: algorithms and data structures, computational complexity, cryptography, computational geometry, computational game theory, algorithmic graph theory and combinatorics, algorithmic algebra, number theory and coding theory, learning theory, computational biology, theoretical problems in networks and security, quantum computing, randomness, on-line algorithms, parallel algorithms, natural computation, models of computation, automata and neural networks, continuous and real computation, computable mathematics, relative computability and degree structures, Turing definability, generalized and higher type computation, proofs and computation, physical computability, decidability and undecidability.

Submission and Publication. Authors are invited to submit an extended abstract in English no longer than 10 pages on letter-size using at least 10-point font. The submission should contain a scholarly exposition of ideas, techniques, and results, including motivation and a clear comparison with related work. Submitted papers must describe work not previously published. They must not be submitted simultaneously to another conference with refereed proceedings. Research that is already submitted to a journal may be submitted to TAMC09, provided that (a) a program committee chair is noted in advance that this is the case, and (b) it is not scheduled for journal publication before the conference. Accepted papers will be published in the conference proceedings in the Springer Series *Lecture Notes in Computer Science*. Authors of accepted papers are expected to present their work at the conference. Special issues in the journals *Theoretical Computer Science* and *Mathematical Structures in Computer Science* devoted to a selected set of accepted papers of the conference are planned.

Important dates

Submission Deadline: February 1, 2009, 11:59pm EST.

Notification of Acceptance: March 1, 2009.

Final Versions Due: March 20, 2009.

Electronic submission. Electronic submission is required. A detailed description of the electronic submission process is available at the conference web site.

Plenary Speakers

Leslie Valiant, Harvard University, USA

Moshe Vardi, Rice University, USA

Special Invited Sessions

Special Invited Session on Models of Computation

(Organizing Chair: S. Barry Cooper, Univ. of Leeds, UK)

Special Invited Session on Algorithms and Complexity

(Organizing Chair: Iyad A. Kanj, DePaul Univ., USA)

Program Committee

Marat Arslanov, Kazan State Univ., Russia

Giorgio Ausiello, Univ. di Roma "La Sapienza", Italy

Hans Bodlaender, Univ. Utrecht, Netherlands

Liming Cai, Univ. of Georgia, USA

Cristian S. Calude, Univ. of Auckland, New Zealand

Alessandra Carbone, Univ. Pierre et Marie Curie, France

Jianer Chen, Texas A&M Univ., USA (co-chair)

Xi Chen, Princeton Univ., USA

Bob Coecke, Oxford Univ., UK

S. Barry Cooper, Univ. of Leeds, UK (co-chair)

Vincent Danos, Univ. of Edinburgh, UK

Anuj Dawar, Univ. of Cambridge, UK

Frank Dehne, Carleton Univ., Canada

Xiaotie Deng, City Univ. of Hong Kong, China

Rod Downey, Victoria Univ., New Zealand

Mike Fellows, Univ. of Newcastle, Australia

Fedor Fomin, Univ. of Bergen, Norway

Lane A. Hemaspaandra, Univ. of Rochester, USA

Kazuo Iwama, Kyoto Univ., Japan

Iyad Kanj, DePaul Univ., USA

Mike Langston, Univ. of Tennessee, USA

Angsheng Li, The Inst. of Software, CAS, China

Ming Li, Univ. of Waterloo, Canada

Wei Li, Beihang Univ., China

Giuseppe Longo, Ecole Normale Supérieure, France

Johann Makowsky, Technion, Israel

Luay Nakhleh, Rice Univ., USA

Luke Ong, Univ. of Oxford, UK

Venkatesh Raman, The Inst. of Math. Sciences, India

Kenneth Regan, Univ. at Buffalo (SUNY), USA

Rüdiger Reischuk, Univ. Lübeck, Germany

Miklos Santha, CNRS, Univ. Paris-Sud, France

Ivan Soskov, Sofia Univ., Bulgaria

Peter van Emde Boas, Univ. of Amsterdam, Netherlands

Jianxin Wang, Central South Univ., China

Osamu Watanabe, Tokyo Inst. of Tech., Japan

Ke Xu, Beihang Univ., China

Chee Yap, New York Univ., USA