Call for Papers: TAMC 2020

The 16th Annual Conference on Theory and Applications of Models of Computation (TAMC 2020 http://tamc2020.csu.edu.cn) will be held on 23-25 May, 2020 in Changsha, China.

TAMC 2020 aims at bringing together a wide range of researchers with interest in computational theory, information theory and applications. The main themes of the conference are computability, complexity, algorithms, information theory and their extensions to machine learning theory, and foundations of artificial intelligence. The topics of interest include (but are not limited to) the following:

AI modeling
algebraic computation
algorithmic coding and number theory
algorithmic graph theory and combinatorics
algorithms and data structures
approximation algorithms
automata theory
computational biology and biological computing
computational complexity
computational game theory
computational geometry
computer science logic
continuous and real computation
cryptography
domain models
dynamical algorithms
foundations of artificial intelligence
game theory
information theoretical foundation for artificial intelligence
learning theory, and intelligent computing
model theory for computing
network theory and communication networks
online algorithms
optimization
parameterized algorithms
privacy and security
process models

programming and verification

property testing

quantum computing

randomized algorithms

randomness and pseudo-randomness

streaming algorithms

structural information theory

systems theory

Turing definability

VLSI models of computation

The proceedings of the Conference will be published by Springer-Verlag in the Lecture Notes in Computer Science (LNCS) series, and will be available for distribution at the conference. Selected high quality papers will be invited to one of three special issues of journals, Theoretical Computer Science, Mathematical Structures in Computer Science, and SCIENCE CHINA Information Sciences. The invited papers will go through a normal reviewing process.

Papers must be formatted using the LNCS style file without altering margins or the font point. The maximum length of the paper (including references, but excluding the optional appendix) is 12 pages. Proofs omitted due to space constraints must be placed in an appendix to be read by the program committee members at their discretion. Papers that deviate from these guidelines risk being rejected without consideration of their merits.

Important Dates

==

Submission deadline:	1 December, 2019 (AoE)
Notification of acceptance:	20 January, 2020
Camera-ready and registration:	10 February, 2020
Conference dates:	23-25 May, 2020

Steering Committee

==

Manindra Agrawal	(Indian Institute of Technology, India)
Jin-Yi Cai	(University of Wisconsin - Madison, USA)
John Hopcroft	(Cornell University, USA)
Angsheng Li	(Beihang University, China)
Zhiyong Liu	(Institute of Computing Technology, Chinese Academy of Sciences, China)

Conference Chair

==

Jianxin Wang   (Central South University, China)

Program Committee Chairs

==

Jianer Chen   (Texas A&M University, USA)
Qilong Feng   (Central South University, China)
Jinhui Xu   (State University of New York at Buffalo, USA)

Program Committee

==

Anthony Bonato   (Ryerson University, Canada)
Yixin Cao   (Hong Kong Polytechnic University, Hong Kong, China)
Jianer Chen (co-chair)   (Texas A&M University, USA)
Hu Ding   (University of Science and Technology of China, China)
Thomas Erlebach   (University of Leicester, UK)
Qilong Feng (co-chair)   (Central South University, China)
Seok-Hee Hong   (University of Sydney, Australia)
Ziyun Huang   (Penn State Erie, The Behrend College, USA)
Aaron D. Jaggard   (United States Naval Research Laboratory, USA)
Steffen Lempp   (University of Wisconsin - Madison, USA)
Jian Li   (Tsinghua University, China)
Shi Li   (State University of New York at Buffalo, USA)
Mia Minnes   (University of California, San Diego, USA)
Evanthia Papadopoulou   (Università Della Svizzera Italiana, Switzerland)
Aduri Pavan   (Iowa State University, USA)
Anil Seth   (Indian Institute of Technology Kanpur, India)
Xiaoming Sun   (Institute of Computing Technology, Chinese Academy of Sciences, China)
Shin-ichi Tanigawa   (The University of Tokyo, Japan)
Takeshi Tokuyama   (Tohoku University, Japan)
Haitao Wang   (Utah State University, USA)
Lusheng Wang   (City University of Hong Kong, Hong Kong, China)
Ge Xia   (Lafayette College, USA)
Jinhui Xu (co-chair)   (State University of New York at Buffalo, USA)

Boting Yang   (University of Regina, Canada)

Christos D. Zaroliagis   (University of Patras, Greece)

Guochuan Zhang   (Zhejiang University, China)

Huaming Zhang   (The University of Alabama in Huntsville, USA)

Martin Ziegler   (KAIST, South Korea)