



11th Annual Conference on

Theory and Applications of Models of Computation

11 – 13 April 2014

Venue: Vivekananda Auditorium, Anna University, Chennai

Announcement and First Call for Papers

TAMC 2014 aims at bringing together a wide range of researchers with interests in computational theory and applications. **The main themes of the conference are computability, complexity, algorithms, models of computation and systems theory.** TAMC is happening in India for the first time. Typical but not exclusive topics of interest include:

- algebraic computation
- algorithmic coding theory
- algorithmic number theory
- approximation algorithms
- automata theory
- circuit complexity
- combinatorial algorithms
- computability
- computational biology, and biological computing
- computational complexity [including circuits, communication, derandomization, PCPs, proof complexity, structural complexity]
- computational game theory
- computational logic
- computational geometry
- continuous and real computation
- cryptography
- data structures
- design and analysis of algorithms
- distributed algorithms
- domain models [Assets, Price of Abstraction, frameworks]
- fixed parameter tractability
- geometric algorithms
- graph algorithms
- information and communication complexity
- learning theory
- memory hierarchy tradeoffs
- model theory for computing [modal and temporal logics, specification, verification, synthesis or automated software construction, aesthetics, software behavior, transformation of models]
- natural computation
- nature inspired computing
- network algorithms, networks in nature and society
- online algorithms
- optimization
- parallel algorithms
- philosophy of computing [emerging paradigms, morality, intentionality]
- privacy and security
- property testing
- proof complexity
- process models [for software construction, validating software under construction, supply – chain]
- quantum computing
- randomness, pseudo-randomness
- randomized algorithms
- space – time tradeoffs
- streaming algorithms
- systems theory [Concurrent, Timed, Hybrid and Secure systems]
- VLSI Models of Computation [Models for Hardware – Software Codesign]

The Programme Committee has 30 eminent experts from 11 Countries

Papers submitted will be reviewed and evaluated based on originality, technical quality and relevance to the conference.

Please find the paper submission guidelines at: <http://www.annauniv.edu/tamc2014>

Important Dates

Submission Deadline: 15 November 2013, 11:59pm EST.

Notification of Acceptance: 15 December 2013

Final Camera Ready Version Due: 15 January 2014

Please visit: <http://www.annauniv.edu/tamc2014>

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