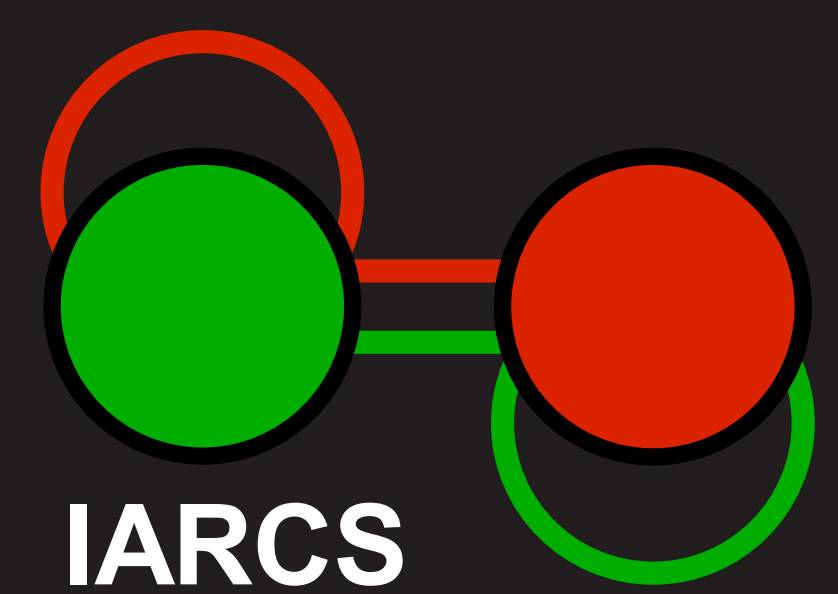


# Automated Technology for Verification and Analysis (ATVA) 2012

Thiruvananthapuram (Trivandrum), Kerala, October 3-6, 2012

## Call for Papers



## ATVA

The ATVA series of symposia is intended to promote research in theoretical and practical aspects of automated analysis, verification and synthesis in East Asia by providing a forum for interaction between the regional and international research communities and industry in the field. The previous editions of the symposium were held in Taiwan, Beijing, Tokyo, Seoul, Macao, Singapore and Taipei. Organised by the Indian Association for Research in Computing Science (IARCS), ATVA 2012 will be held in the picturesque campus of Tata Consultancy Services at Thiruvananthapuram (Trivandrum), India from Oct 3 to Oct 6, 2012.



## Scope

ATVA 2012 solicits high quality submissions in areas related to the theory and practice of automated analysis and verification of hardware and software systems. Topics of interest include, but are not limited to the following:

- ▶ Formalisms for modeling hardware, software and embedded systems
- ▶ Specification and verification of finite-state, infinite-state and parameterized system
- ▶ Program analysis and software verification
- ▶ Analysis and verification of hardware circuits, systems-on-chip and embedded systems
- ▶ Analysis of real-time, hybrid, priced/weighted and probabilistic systems
- ▶ Deductive, algorithmic, compositional, and abstraction/refinement techniques for analysis and verification
- ▶ Analytical techniques for safety, security, and dependability
- ▶ Testing and runtime analysis based on verification technology
- ▶ Analysis and verification of parallel and concurrent hardware/software systems
- ▶ Verification in industrial practice
- ▶ Applications and case studies

Theory papers should preferably be motivated by practical problems, and applications should be based on sound theory and should solve problems of practical interest.

## Submission

Submissions are invited in two categories: regular research papers and tool papers. Submitted papers must present original and unpublished work, and must not be concurrently submitted to any other conference or journal.

Proofs and details omitted due to space constraints may be put in an appendix. Any such additional material will be read by reviewers/program committee members at their discretion. Tool papers must include information about a URL from where the tool can be downloaded or accessed on-line for evaluation.

Authors must upload PDF files of their papers through EasyChair. Accepted papers in both categories will be published by Springer as a LNCS volume.

For further information and instructions about submission, please refer to the conference website.

## Keynote Talks and Tutorials

ATVA 2012 will feature three keynote talks and tutorials by the following speakers:

**Sharad Malik (Princeton Univ, USA)**

**Andreas Podelski (Univ of Freiburg, Germany)**

**P. S. Thiagarajan (National Univ of Singapore, Singapore)**

## Conference Venue

**TATA CONSULTANCY SERVICES**

LDI Building, Peepul Park

Thiruvananthapuram, Kerala, India.

## Committee

### General Chair

- ▶ S Ramesh (Global GM R&D, India)

### Program Committee

- ▶ Rajeev Alur (Univ of Pennsylvania, USA)
- ▶ Christel Baier (TU Dresden, Germany)
- ▶ Purandar Bhaduri (IIT Guwahati, India)
- ▶ Jonathan Billington (Univ of South Australia, Australia)
- ▶ Gianpiero Cabodi (Politecnico di Torino, Italy)
- ▶ Supratik Chakraborty (IIT Bombay, India) (**Co-Chair**)
- ▶ Deepak D'Souza (IISc, India)
- ▶ Pallab Dasgupta (IIT Kharagpur, India)
- ▶ E. Allen Emerson (Univ of Texas at Austin, USA)
- ▶ Laurent Fribourg (LSV, CNRS ENS Cachan, France)
- ▶ Masahiro Fujita (Univ of Tokyo, Japan)
- ▶ Susanne Graf (Verimag, France)
- ▶ Teruo Higashino (Osaka Univ, Japan)
- ▶ Alan Hu (Univ of British Columbia, Canada)
- ▶ Franjo Ivančić (NEC Labs, USA)
- ▶ Joost-Pieter Katoen (RWTH Aachen Univ, Germany)
- ▶ Zurab Khasidashvili (Intel, Israel)
- ▶ Moonzoo Kim (KAIST, S. Korea)
- ▶ Padmanabhan Krishnan (Bond Univ, Australia)
- ▶ K Narayan Kumar (CMI, India)
- ▶ Orna Kupferman (Hebrew Univ, Israel)
- ▶ Insup Lee (Univ of Pennsylvania, USA)
- ▶ Xuandong Li (Nanjing Univ, P.R. China)
- ▶ Madhavan Mukund (CMI, India) (**Co-Chair**)
- ▶ Aditya Nori (Microsoft Research India, India)
- ▶ Jun Pang (Univ Luxembourg, Luxembourg)
- ▶ Doron Peled (Bar Ilan Univ, Israel)
- ▶ Sanjiva Prasad (IIT Delhi, India)
- ▶ Ganesan Ramalingam (Microsoft Research India, India)
- ▶ Anders P. Ravn (Aalborg Univ, Denmark)
- ▶ Abhik Roychoudhury (National Univ of Singapore, Singapore)
- ▶ Ashish Tiwari (SRI, USA)
- ▶ R Venkatesh (TRDDC, India)
- ▶ Mahesh Viswanathan (Univ of Illinois at Urbana-Champaign, USA)
- ▶ Farn Wang (National Taiwan Univ, Taiwan)
- ▶ Hsu-Chun Yen (National Taiwan Univ, Taiwan)
- ▶ Wang Yi (Uppsala Univ, Sweden)

## Important Dates

Submission server opens	March 1, 2012
Paper submission deadline	April 30, 2012
Notification of acceptance	June 18, 2012
Final copy for proceedings	July 2, 2012