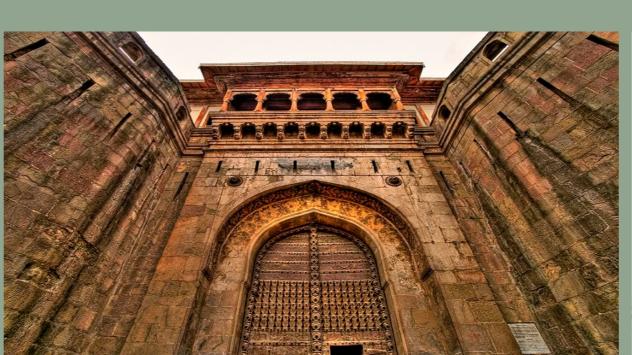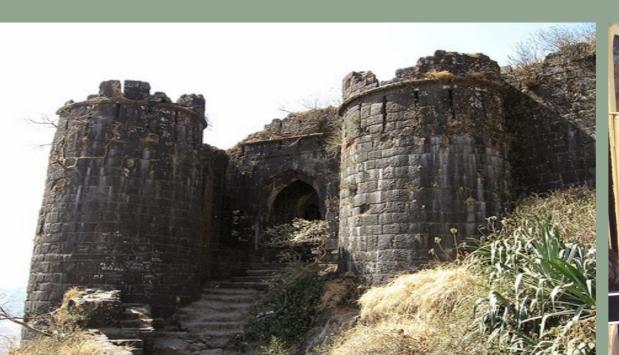## ATVA

ATVA 2017 is the 15th in a series of symposia aimed at bringing together academics, industrial researchers and practitioners in the area of theoretical and practical aspects of automated analysis, synthesis, and verification of hardware and software systems. This year ATVA will be held in the beautiful campus of Tata Consultancy Services, surrounded by the rolling hills of the Sahyadri ranges, in the city of Pune, in India.

## Scope

ATVA 2017 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 systems
- 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 systems
- Verification in industrial practice
- Synthesis for hardware and software systems
- Applications and case studies
- Automated tool support

## Submission

ATVA invites submissions in two categories:

- Regular research papers (16 pages, including references)
- Tool papers (6 pages, including references)

Submissions must be in Springer's LNCS format. Additional material may be placed in an appendix, to be read at the discretion of the reviewers and to be omitted in the final version. Formatting style files and further guidelines for formatting can be found at the Springer website.

Tool papers must include information about a URL from where the tool can be downloaded or accessed on-line for evaluation. The URL must also contain a set of examples, and a user manual that describes usage of the tool through examples. In case the tool needs to be downloaded and installed, the URL must contain instructions for installation of the tool on Linux/Windows/MacOS. Papers must be submitted to the EasyChair site at `https://www.easychair.org/conferences/?conf=atva2017`. Accepted papers in both categories will be published in Springer's Lecture Notes in Computer Science series.

At least one author of each accepted paper is expected to register and present the paper at the conference.

## Keynote Talks and Tutorials

ATVA 2017 will feature three keynote talks, and a day of tutorials, by the following invited speakers:

**Carla Ferreira**, U Nova De Lisboa

**Gerwin Klein**, CSIRO and U New South Wales

**Helmut Seidl**, TU Munich

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## Important Dates

| | |
|---|---|
| **Paper submission** | **April 21, 2017** |
| **Notification** | **June 15, 2017** |
| **Final version** | **July 10, 2017** |

## Conference Venue

**TATA** CONSULTANCY SERVICES
Rajiv Gandhi Infotech Park, Hinjewadi, Pune, India