### ATVA 2010 Call for Papers

**8th International Symposium on Automated Technology for Verification and Analysis**  
21 – 24 September 2010, National University of Singapore, Singapore  

The purpose of ATVA is to promote research on theoretical and practical aspects of automated analysis, verification and synthesis in East Asia by providing a forum for interaction between the regional and the international research communities and industry in the field. The previous six events were held in Taiwan (2003-5), Beijing (2006), Tokyo (2007), Seoul (2008) and Macao (2009). The proceedings of ATVA 2010 will be published by Springer as a volume in the LNCS series.

**SCOPE**
The scope of interest is intentionally kept broad; it includes:

- **Theories** useful for providing designers with automated support for obtaining correct software or hardware systems, including both functional and non-functional aspects, such as: theory of (timed and hybrid) automata, process calculi, Petri-nets, concurrency theory, compositionality, model-checking, automated theorem proving, synthesis, performance analysis, correctness-by-construction, infinite state systems, abstract interpretation, decidability results, parametric analysis or synthesis.
- **Applications** of theory in engineering methods and other particular domains and handling of practical problems occurring in tools, such as analysis and verification tools, synthesis tools, model transformation tools. Techniques of reducing complexity of verification by abstraction, improved representations. Methods and tools in handling user level notations, such as UML. Practice in industrial applications to hardware, software or real-time and embedded systems. Case studies, illustrating the usefulness of tools or a particular approach are also welcome.

Theory papers should be motivated by practical problems and applications should be rooted in sound theory. We are interested both in algorithms and in methods and tools for integrating formal approaches into industrial practice.

**SUBMISSION**
Submissions to the conference must not have been published or be concurrently considered for publication elsewhere. All submissions will be judged on the basis of originality, contribution to the field, technical and presentation quality, and relevance to the conference. ATVA 2010 calls for two types of contributions: **RESEARCH PAPERS** and **TOOL DEMONSTRATION PAPERS**. Both types of contributions will appear in the proceedings and have oral presentations at the conference. Papers should be written in English in LNCS format.

- **Research papers**: Research papers should contain original research, and sufficient detail to assess the merits and relevance of the contribution. Submissions reporting on industrial case studies are welcome, and should describe both strengths and weaknesses in sufficient depth. Research papers should be no more than 15 pages.
- **Tool demonstration papers**: Tool demonstration papers present tools based on aforementioned theories or fall into the above application areas. Tool demonstration papers allow researchers to stress the technical and practical side, illustrating how one can apply the theoretic contributions in practice. Tool demonstration papers should be no more than 6 pages.

Further information and instruction about submission can be found at the conference website http://atva10.comp.nus.edu.sg.

**IMPORTANT DATES**
- Abstraction submission: April 5, 2010
- Paper submission: April 12, 2010
- Notification of acceptance: May 31, 2010
- Final copy for proceedings: June 18, 2010

### General Chair
Jin Song Dong, National University of Singapore

### Program Chairs
Ahmed Bouajjani, University of Paris  
Wei-Ngan Chin, National University of Singapore

### Associated Events
Workshops, September 21, 2010  
Tutorials, September 21, 2010

### Keynote Speakers
Edmund M. Clarke, Carnegie Mellon University  
Thomas A. Henzinger, IST Austria  
Igor Walukiewicz, Université Bordeaux-1

### PC Members
Jonathan Billington (Univ of South Australia, AU)  
Florin Craciun (Soter Sys)  
E Allen Emerson (Univ of Texas)  
Jacq Gledenhuys (Univ of Stellenbosch)  
Patrice Godefroid (Microsoft)  
Franjo Ivanic (NEC Labs)  
Laurent Fribourg (ENS de Cachan)  
Masahiro Fujita (Univ of Tokyo)  
Susanne Graf (Verimag)  
Teruo Higashino (Osaka Univ)  
Naoki Kobayashi (Tohoku Univ)  
Orna Kupferman (Hebrew Univ)  
Marta Kwiatkowska (Univ of Oxford)  
Insup Lee (Univ of Pennsylvania)  
Xuandong Li (Nanjing Univ)  
Brendan Mahony (DSTO, AU)  
Andrew Martin (Univ of Oxford)  
Ken McMillan (Cadence)  
Kedar Namjoshi (Bell Labs)  
Hua Phung Nguyen (HCM City Univ of Tech)  
Richard Paige (Univ of York)  
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Prasad Sistla (Univ of Illinois)  
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Jun Sun (National Univ of Singapore)  
Mandana Vaziri (IBM)  
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