

ATVA 2008 Call for Papers

**6th International Symposium on
Automated Technology for Verification and Analysis
October 20~23, 2008, Seoul, South Korea
<http://pswlab.kaist.ac.kr/atva2008/>**

ATVA 2008 is the sixth in the series of symposia on Automated Technology for Verification and Analysis. 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 proceedings of ATVA 2008 will be published by Springer as a volume in the LNCS series.

SCOPE:

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

- Theory useful for providing designers with automated support for obtaining correct software or hardware systems, including both functional and non functional aspects, such as: theory on (timed) automata, Petri-nets, concurrency theory, compositionality, model-checking, automated theorem proving, synthesis, performance analysis, correctness-by-construction results, infinite state systems, abstract interpretation, decidability results, parametric analysis or synthesis.
- Applications of theory in engineering methods and particular domains and handling of practical problems occurring in tools, such as: analysis and verification tools, synthesis tools, reducing complexity of verification by abstraction, improved representations, handling user level notations, such as UML, practice in industry 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. Of particular interest are algorithms on one hand and methods and tools for integrating formal approaches into industrial practice. Special care should be taken as well to present papers in such a way that they are accessible not only to specialists, that is, jargon need to be defined and intuitive interpretation provided for theories.

KEYNOTE SPEAKERS:

- Theory track: Natarajan Shankar (SRI)
- Software track: Sriram K. Rajamani (Microsoft)
- Application track: David L. Dill (Stanford)

SUBMISSIONS:

A submitted paper must contain original contributions, clearly written in English, and include comparison with related work. The authors are advised to prepare their manuscripts using the LNCS style. Simultaneous submissions to other conferences are not allowed. From 2008, ATVA accepts two types of contributions: **RESEARCH PAPERS** and **TOOL DEMONSTRATION PAPERS**. Both types of contributions will appear in the proceedings and have oral presentations.

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 detailed weaknesses and strength in sufficient depth. Submitted research papers should be no more than 15 pages long.

Tool demonstration papers:

Tool demonstration papers present tools based on aforementioned technologies 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. Submitted tool demonstration papers should be no more than 6 pages long.

STEERING COMMITTEE:

E.Allen Emerson (U. Texas-Austin)
Oscar H. Ibarra
(U. California-S.Barbara)
Insup Lee (U. Pennsylvania)
Doron A. Peled
(Univ. Warwick, Univ. Bar Ilan)
Farn Wang (National Taiwan Univ.)
Hsu-Chun Yen (National Taiwan Univ.)

GENERAL CO-CHAIRS :

Sungdeok Cha (Korea Univ.)
Insup Lee (Univ. Pennsylvania)

PROGRAM CO-CHAIRS:

Moonzoo Kim (KAIST)
Mahesh Viswanathan (UIUC)

LOCAL ARRANGEMENT CO-CHAIRS:

Jin-Young Choi (Korea Univ.)

PROGRAM COMMITTEE:

Christel Baier (Univ. Bonn)
Jonathan Billington(U. South Australia)
Byeong-Mo Chang
(SookMyung Women University)
Yunja Choi (Kyungpook National Univ.)
Ching-Tsun Chou (Intel)
Masahiro Fujita (Univ. Tokyo)
Susanne Graf (VERIMAG)
Wolfgang Grieskamp (Microsoft)
Teruo Higashino (Osaka Univ.)
Franjo Ivancic (NEC Lab)
Ranjit Jhala (U. California San Diego)
Gihwon Kwon (Kyonggi Univ.)
Insup Lee (U. Pennsylvania)
Shaoying Liu (Hosei Univ.)
Zhiming Liu (IIIST/United Nations Univ.)
Mila E. Majster-Cederbaum
(U. Mannheim)
Ken McMillan (Cadence)
In-ho Moon (Synopsis)
Shin Nakajima
(National Institute of Informatics)
Kedar Namjoshi (Lucent)
Doron A. Peled
(U. Warwick, U. Bar Ilan)
Hiroyuki Seki (NAIST)
Prasad Sistla (U. Illinois-Chicago)
P.S. Thiagarajan
(National Univ. of Singapore)
Yih-Kuen Tsay (National Taiwan Univ.)
Bow-Yaw Wang (Academia Sinica)
Farn Wang (National Taiwan Univ.)
Ji Wang (Nat'l U. of Techn. of China)
Hsu-Chun Yen (National Taiwan Univ.)
Tomohiro Yoneda
(National Inst. of Informatics)
Sergio Yovine (VERIMAG)
Shoji Yuen (Nagoya Univ.)
Wenhui Zhang
(Chinese Academy of Science)

IMPORTANT DATES

- May 5 (Monday): papers submission deadline
- June 30 (Monday): acceptance notification
- July 28 (Monday): camera-ready version
- October 20 (Monday)~23 (Thursday): ATVA 2008