

Publications of Anvesh Komuravelli

Peer-Reviewed Conference Papers

14. CAV 2014, *SMT-Based Model Checking for Recursive Programs*
A. Komuravelli, A. Gurfinkel, and S. Chaki
26th International Conference on Computer Aided Verification
13. CAV 2013, *Automatic Abstraction in SMT-Based Unbounded Software Model Checking*
A. Komuravelli, A. Gurfinkel, S. Chaki, and E. M. Clarke
25th International Conference on Computer Aided Verification
12. FACS 2012, *Assumption Generation for Asynchronous Systems by Abstraction Refinement*
Q. Yang, E. M. Clarke, A. Komuravelli, and M. Li
9th International Symposium on Formal Aspects of Component Software
11. LICS 2012, *Learning Probabilistic Systems from Tree Samples*
A. Komuravelli, C. S. Păsăreanu, and E. M. Clarke
27th Annual ACM/IEEE Symposium on Logic in Computer Science
10. CAV 2012, *Assume-Guarantee Abstraction Refinement for Probabilistic Systems*
A. Komuravelli, C. S. Păsăreanu, and E. M. Clarke
24th International Conference on Computer Aided Verification
9. ASP-DAC 2011, *Analog Circuit Verification by Statistical Model Checking*
Y.-C. Wang, A. Komuravelli, P. Zuliani, and E. M. Clarke
16th Asia and South-Pacific Design Automation Conference
8. ATS 2011, *Backward Reasoning with Formal Properties: A Methodology for Bug Isolation on Simulation Traces*
A. Komuravelli, S. Mitra, A. Banerjee, and P. Dasgupta
20th Asian Test Symposium, IEEE Computer Society
7. InCoB 2010, *Analysis and Verification of the HMGB1 Signaling Pathway* (best paper award)
H. Gong, P. Zuliani, A. Komuravelli, J. R. Faeder, and E. M. Clarke
9th International Conference on Bioinformatics, published in *BMC Bioinformatics* 11(7):S10, 2010
6. ANB 2010, *Computational Modeling and Verification of Signaling Pathways in Cancer*
H. Gong, P. Zuliani, A. Komuravelli, J. Faeder, and E. M. Clarke
4th International Conference on Algebraic and Numeric Biology
5. SSS 2009, *Exploring Polygonal Environments by Simple Robots with Faulty Combinatorial Vision*
A. Komuravelli and M. Mihal'ák
11th International Symposium on Stability, Safety and Security of Distributed Systems
4. IWCIA 2008, *Connectivity Preserving Voxel Transformation*
A. Komuravelli, A. Sinha, and A. Bishnu
12th International Workshop on Combinatorial Image Analysis

Peer-Reviewed Journal Articles

3. *A static verification approach for architectural integration of mixed-signal integrated circuits*
R. Mukhopadhyay, A. Komuravelli, P. Dasgupta, S. Panda, and S. Mukhopadhyay
Integration, the VLSI Journal, 43(1), Elsevier, 2010
2. *Connectivity Preserving Transformations for Higher Dimensional Binary Images* (invited paper)
A. Komuravelli, A. Sinha, and A. Bishnu
Discrete Applied Mathematics, 157(16), Elsevier, 2009

Theses

1. *Formal Methods for Design Debugging from Traces*

A. Komuravelli

Bachelor's Thesis, Computer Science and Engineering, IIT Kharagpur, May 2009