

Verification, Model Checking, and Abstract Interpretation

10th International Conference, VMCAI 2009, Savannah, GA, USA, January 18-20, 2009. Proceedings

This volume contains the proceedings of the 10th International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI 2009), held in Savannah, Georgia, USA, January 18–20, 2009. VMCAI 2009 was the 10th in a series of meetings. Previous meetings were held in Port Je?erson 1997, Pisa 1998, Venice 2002, New York 2003, Venice 2004, Paris 2005, Charleston 2006, Nice 2007, and San Francisco 2008. VMCAI centers on state-of-the-art research relevant to analysis of programs and systems and drawn from three research communities: verification, model checking, and abstract interpretation. A goal is to facilitate interaction, cross-fertilization, and the advance of hybrid methods that combine two or all three areas. Topics covered by VMCAI include program verification, program certification, model checking, debugging techniques, abstract interpretation, abstract domains, static analysis, type systems, deductive methods, and optimization. The Program Committee selected 24 papers out of 72 submissions based on anonymous reviews and discussions in an electronic Program Committee meeting. The principal selection criteria were relevance and quality. VMCAI has a tradition of inviting distinguished speakers to give talks and tutorials. This time the program included three invited talks by: – E. Allen Emerson (University of Texas at Austin) on “Model Checking: Progress and Problems” – Aarti Gupta (NEC Labs, Princeton) on “Model Checking Concurrent Programs” – Mooly Sagiv (Tel-Aviv University) on “Thread Modular Shape Analysis” There were also two invited tutorials by: – Byron Cook (Microsoft Research, Cambridge) on “Proving Program Termination and Liveness” – Véronique Cortier (LORIA, CNRS, Nancy) on “Verification of Security Protocols”.

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