

Computer Aided Verification

This volume contains the proceedings of the International Conference on Computer Aided Verification (CAV), held in Berlin, Germany, July 3–7, 2007. CAV 2007 was the 19th in a series of conferences dedicated to the advancement of the theory and practice of computer-assisted formal analysis methods for software and hardware systems. The conference covers the spectrum from theoretical results to concrete applications, with an emphasis on practical verification tools and the algorithms and techniques that are needed for their implementation. We received 134 regular paper submissions and 39 tool paper submissions. Of these, the Program Committee selected 33 regular papers and 14 tool papers. Each submission was reviewed by at least three members of the Program Committee. The reviewing process included a PC review meeting, and – for the first time in the history of CAV – an author feedback period. About 50 additional reviews were provided by experts external to the Program Committee to assure a high quality selection. The CAV 2007 program included three invited talks from industry: – Byron Cook (Microsoft Research) on Automatically Proving Program Termination, – David Russinoff (AMD) on A Mathematical Approach to RTL Verification, and – Thomas Kropf (Bosch) on Software Bugs Seen from an Industrial Perspective.

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