Preface

This volume contains the proceedings of the Eighth International Workshop on Automated Verification of Critical Systems (AVoCS 08). The workshop was held at Glasgow University, in the new Computing Science Sir Alwyn Williams Building, on 30 September – 1 October. The aim of the AVoCS series of workshops is to contribute to the interaction and exchange of ideas among members of the international research community on tools and techniques for the verification of critical systems. The subject is to be interpreted broadly and inclusively. It covers all aspects of automated verification, including model checking, theorem proving, abstract interpretation, and refinement pertaining to various types of critical systems (safety-critical, security-critical, business-critical, performance-critical, etc.). Contributions that describe different techniques, or industrial case studies are encouraged. The first AVoCS was held in Oxford in 2001, subsequent workshops were held in Birmingham, Southampton, London, Warwick, Nancy, and Oxford.

The programme committee of AVoCS 2008 consisted of:

• Michael Butler (University of Southampton, UK)
• Muffy Calder (University of Glasgow, UK)
• Michael Goldsmith (University of Warwick)
• Stephan Merz (LORIA, France)
• Alice Miller (University of Glasgow, UK)
• Paritosh Pandya (TIFR, India)
• Nir Piteman (Imperial College, UK)
• Shamim Ripon (University of Glasgow, UK)
• Markus Roggenbach (University of Wales Swansea, UK)
• Helen Treharne (University of Surrey, UK)
• Sergio Yovine (Verimag, France)

The workshop programme contained 10 full papers and one short paper; there were two invited speakers: Kousha Etessami (University of Edinburgh) and Andrew
Ireland (Heriot Watt University). These post-proceedings contain 9 of the best papers from the workshop.

Alice Miller
Muffy Calder