



Proceedings of the
15th International Workshop on
Automated Verification of Critical Systems (AVoCS 2015)

Preface

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The *15th International Workshop on Automated Verification of Critical Systems (AVoCS 2015)* was hosted by the School of Mathematical and Computer Sciences within Heriot-Watt University on September 2 – 4, 2015. The workshop took place in the headquarters of the *International Centre for Mathematical Sciences (ICMS)*, located in the historic old town of Edinburgh. The 6th AI4FM workshop, which was held on 1 September, was co-located with AVoCS.

The workshop programme consisted of regular papers, research ideas papers and two keynote speakers – Don Sannella (Contemplate Ltd & the University of Edinburgh, UK) and Colin O’Halloran (D-RisQ Software Systems & the University of Oxford, UK). We are particularly grateful to Don and Colin for their contributions to AVoCS 2015.

We are grateful for the sponsorship provided by Altran, D-RisQ Software Systems, Formal Methods Europe (FME) and the Scottish Informatics and Computer Science Alliance (SICSA). Sponsorship from Altran, FME and SICSA was used to support student attending AVoCS and AI4FM.

24 papers were submitted to AVoCS, from which 15 were accepted for presentation at the workshop and publication in the PreProceedings. 14 of these have been accepted for this Post-Proceedings, together with the two invited talks. We also received 8 research ideas papers, of which 6 were presented at the workshop and included in the PreProceedings. These do not however appear in the PostProceedings. New to AVoCS 2015 was two discussion-based sessions for the research ideas papers.

We would like to thank our excellent programme committee and additional reviewers for their efforts in ensuring a high quality workshop and proceedings. Thanks also to the AVoCS steering committee for giving us the opportunity to host a very successful AVoCS 2015 in Edinburgh.

We would like to thank Andrius Velykis and Leo Freitas, who, together with Gudmund Grov, were the organisers of the AI4FM 2015 workshop. We would also like to thank: the organisers of AVoCS 2014 for all the help and use of their L^AT_EX template; staff within the School of MACS for all the support; the Blonde restaurant for an excellent workshop dinner; and particularly Audrey Brown and her colleagues at ICMS, for all the help with local arrangements.

Finally, special thanks go to Yuhui Lin. We are greatly indebted to all the work that he has done. He has far exceeded the remit of a Local Arrangements and Publicity Chair.

November 2015
Heriot-Watt University

Workshop Programme Chairs
Gudmund Grov
Andrew Ireland



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