## WMC

### 3rd International Workshop on Mixed Criticality Systems

at the IEEE Real-Time Systems Symposium (RTSS 2015)
San Antonio, Texas, USA
1st December 2015

[http://www-users.cs.york.ac.uk/~robdavis/wmc/](http://www-users.cs.york.ac.uk/~robdavis/wmc/)

### Program Chairs:

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### Steering Committee:

Sanjoy Baruah,  
Liliana Cucu-Grosjean,  
Rob Davis,  
Claire Maiza

### Important dates:

**Submission deadline:** Extended 9th Oct 2015  
**Notification of acceptance:** 26th Oct 2015  
**Final Versions:** 2nd November 2015  
**Workshop:** 1st December 2015  
**Conference:** 1st - 4th December 2015

### CALL FOR PAPERS

The purpose of WMC is to share new ideas, experiences and information about research and development of Mixed Criticality real-time systems.

### THEMES

The workshop aims to bring together researchers working in fields relating to real-time systems with a focus on the challenges brought about by the integration of mixed criticality applications onto singlecore, multicore and manycore architectures. These challenges are cross-cutting. To advance rapidly, closer interaction is needed between the sub-communities involved in real-time scheduling, real-time operating systems / runtime environments, and timing analysis. The workshop aims to promote understanding of the fundamental problems that affect Mixed Criticality Systems (MCS) at all levels in the software/hardware stack and crucially the interfaces between them. The workshop will promote lively interaction, cross fertilisation of ideas, synergies, and closer collaboration across the breadth of the real-time community, as well as attracting industrialists from the aerospace, automotive and other industries with a specific interest in MCS. Original unpublished papers on all aspects of mixed criticality real-time systems are welcome. Themes include, but are not limited to:

- Task and system models for MCS on singlecore, multicore, and manycore platforms.
- Scheduling schemes and analyses for MCS, including the integration of appropriate models of overheads and delays.
- Run-time environments and support for MCS, including data exchange and synchronisation across criticality levels, and issues relating to criticality mode.
- Analysis of worst-case execution times (WCET) relating to MCS.
- Mixed criticality communications mechanisms and analysis, including Network-on-Chip support.
- Probabilistic analysis techniques for MCS.

The scope of the workshop is real-time, mixed criticality systems. Papers that do not relate to real-time behaviour (i.e. are solely about security or safety aspects of MCS) will be considered as out of scope.

### PAPER SUBMISSION

Papers must be submitted electronically in a pdf format. The material must be unpublished and not under submission elsewhere. Submissions must be in the same format as in the final proceedings (6 pages maximum, 2 columns, 10 pt) compliant with the IEEE formatting guidelines. Papers exceeding the page limit will not be reviewed. See the workshop website for further details about submissions.

### PROCEEDINGS

WMC will publish informal proceedings. The authors retain the copyright to their work and are free to submit extended versions to a conference or journal.

### PROGRAM COMMITTEE

Abhilash Thekkilakattil, Adriana Gogonel, Arvind Easwaran, Björn B. Brandenburg, David Bromman, Haohan Li, Iain Bate, Kai Lampka, Marcus Völp, Mitra Nasri, Nan Guan, Risat Mahmud Pathan, Sebastian Altmeyer, Sebastian Faucou, Sophie Quinton.