PROGRAM of the Mixed Criticality on Multicore/Manycore Platforms Dagstuhl Seminar

Monday: (high-criticality*) activities start just after breakfast

07:30-08:45 Breakfast

09:00-09:14 Introduction by organizers

09:15-10:29 1,5 minutes/person to say who you are

10:30-10:59 Coffee

11:00-12:14 Industry current time approaches: is there a place for mixed-criticality
- Avionics: Cristian Maxim (Airbus/Inria)
- Railway: Stefan Resch (Thales)

12:15-14:00 Lunch

14:01-15:30 More about current industry approaches and some open problems
- Sascha Uhrig
- Dirk Ziegenbein
- Philippa Ryan

15:30-15:59 Coffee

16:00-16:30 Mixed-criticality definitions and assumptions
- Arvind Easwaran on Practical Mixed-Criticality Model: Challenges

16:31- 17:15 Discussions and open problems on the assumptions and limitations of mixed-criticality models
- Alan Burns: How to gracefully degrade

18:00-19:15 Dinner

20:00- (low-criticality**) activities start in the lounge

Tuesday: (high-criticality) activities start just after breakfast

07:30-08:45 Breakfast

09:00-09:15 Recap' on first day discussions and introduction of the tutorials

09:16-09:46 Jim Anderson: The one-out-of-m multicore problem (tutorial)

09:47 -10:30 Open problems for multicore
- Sebastian Altmeyer : realistic task model for multicore processors
- Jing Li: Improve the scalability of mixed-criticality parallel real-time systems
- Iain Bate : Some issues with the mixed-criticality scheduling

10:30-11:00 Coffee

11:01-12:15 Collaboration time

12:15-14:00 Lunch

14:01-14:31 Leandro Indrusiak: NoCs and mixed-criticality (tutorial)

14:32-15:30 Collaboration time

15:31-16:00 Coffee

16:01-16:31 Open problems
- Kunal Agrawal
- Zhishan Guo
- Jaewoo Lee

16:31-17:59 Collaboration time

18:00-19:15 Dinner

20:00- low-criticality activities start in the lounge

Wednesday: (high-criticality) activities start just after breakfast

07:30-08:45 Breakfast

09:00-09:15 Recap' time on second day discussions

09:16-09:46 Claire Pagetti - Resource management in DREAMS (tutorial)

09:47 - 10:30 Open problems
- Wang Yi
- Satish Gopalakrishnan

10:31-11:00 Coffee

11:00-12:14 Open problems
- Laurent George
- Tam Chantem
- Jan Reineke
- JJ Chen

12:15-13:30 Lunch

13:55   Meeting for hiking. The right shoes are the critical part of the hiking, right?

18:00-19:00 Dinner
19:00 Wine tasting

Thursday : (high-criticality) activities start just after breakfast

07:30-08:45 Breakfast

09:00-09:14 Recap' on third day discussions

09:15-09:45 Liliana Cucu-Grosjean, Adriana Gogonel and Cristian Maxim: WCET measurement-based approach (tutorial)

09:45-10:29 Open problems
- Dorin Maxim
- Luca Santinelli

10:30-10:45 Coffee

11:00-12:14 Collaboration time

12:15-14:00 Lunch

14:01-14:45 Open discussions on topics requested by the audience
- Björn Brandenburg
- Zoë Stephenson
- Emmanuel Grolleau
- Sébastien Faucou

15:30-15:55 Coffee

15:56-17:59 Collaboration time

18:00-19:15 Dinner

20:00- low-critical activities start in the lounge

Friday: (high-criticality) activities start just after breakfast

07:30-08:45 Breakfast

09:00-09:30 Recap of our seminar

09:31-10:30 New open problems

10:30-11:00 Last coffee together

11:00-11:30 Goodbye and see you at WMC2017@Paris

12 :17-14:00 Lunch

* and ** activities may have different criticalities but they both important for a successful Dagstuhl seminar; moreover high-criticality does not necessarly imply urgent