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W8 Workshop on Industry-Driven Approaches for Cost-effective Certification of Safety-Critical, Mixed-Criticality Systems (WICERT)

Agenda

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Time	Label	Session
08:30	W8.0	Workshop Introduction Speaker: Huáscar Espinoza, TECNALIA, ES
08:45	W8.1	KEYNOTE 1
08:45	W8.1.1	MULCORS - The Use of MULTicore proCessORs in airborne Systems. Project EASA.2011.OP.30. (study done for EASA: European Aviation Safety Agency) Marc Gatti and Guy-Andre Berthon, Thales Avionics, FR
09:20	W8.2	Session 1: Mixed-criticality HW/SW platforms Chair: Rolf Ernst, TU Braunschweig, DE
09:20	W8.2.1	Isolation of Cores Claus Stellwag ¹ , Swapnil Gandhi ² and Thorsten Rosenthal ² ¹ Elektrobit, DE; ² Delphi, DE
09:35	W8.2.2	Open platform for mixed-criticality applications Miguel Méndez ¹ , José Luis Gutiérrez Rivas ² , David Fernández García-Valdecasas ² and Javier Díaz Alonso ² ¹ Seven Solutions, ES; ² University of Granada, ES
10:00	W8.2.3	Servosystem control for theatre stage equipment Pavel Zemcik ¹ , Sevcovic Jiri ¹ , Pavol Korcek ² , Michal Kajan ¹ and Josef Strnadel ¹ ¹ Faculty of Information Technology, CZ; ² Camea, CZ
10:15	W8	Coffee Break Monday and Friday morning and afternoon coffee breaks will be located in the Salle de Reception. On Tuesday-Thursday the breaks will be located in the Exhibition Hall. Morning and afternoon (with the exception of Thursday afternoon which is a 30 minute break) coffee breaks on Tuesday-Thursday are extended breaks and will run for 60 minutes (coffee points will be open for the first 30 minutes only) from the start time indicated in the programme.
10:45	W8.3	Session 2: Certification on aerospace, automotive and automation industries with mixed-criticality Chair: Uwe Kremer, TÜV, DE
10:45	W8.3.1	Hardware and Software Support for Mixed-Criticality Multicore Systems Glenn Farrall ¹ , Claus Stellwag ² , Jonas Diemer ³ and Rolf Ernst ³ ¹ Infineon, UK; ² Elektrobit, DE; ³ TU Braunschweig, DE
11:10	W8.3.2	IFCIMA - Incremental Functional Certification on Integrated Modular Avionics (IMA) Franck Aimé, Thales Avionics, FR
11:35	W8.3.3	Impact of multicore platforms in hardware and software certification Risto Nevalainen ¹ , Uwe Kremer ² , Oscar Slotosch ³ , Dragos Truscan ⁴ and Vicky Wong ⁵ ¹ Spinet, FI; ² TÜV, DE; ³ Validas, DE; ⁴ Åbo Akademi, FI; ⁵ SpaceSystems Finland, FI
12:00	W8	Lunch Break Buffet meal
13:00	W8.4	KEYNOTE 2
13:00	W8.4.1	Industrial practice on mixed-criticality engineering and certification in the aerospace industry Ondrej Kotaba, Honeywell, CZ
13:30	W8.5	Session 3: Methods and tools for cost-effective certification of safety critical systems Chair: Huáscar Espinoza, TECNALIA, ES

13:30 W8.5.1 **Methods and tools for reducing certification costs of mixed-criticality applications on multi-core platforms: the RECOMP approach**
Paul Pop¹, Leonidas Tsiopoulos², Sebastian Voss³, Oscar Slotosch⁴, Christoph Ficek⁵, Ulrik Nyman⁶ and Alejandra Ruiz Lopez⁷
¹Technical University of Denmark, DK; ²Åbo Akademi, FI; ³fortiss, DE; ⁴Validas, DE; ⁵Symtavigation, DE; ⁶Aalborg University, DK; ⁷TECNALIA, ES

13:55 W8.5.2 **Towards Model-Driven Engineering for Mixed-Criticality Systems: MultiPARTES Approach**
Alejandro Alonso¹, Christophe Jouvray², Salvador Trujillo³, Miguel A. de Miguel¹, Cyril Grepet² and José Simó⁴
¹Universidad Politécnica de Madrid, ES; ²Trialog, FR; ³Ikerlan-IK4, ES; ⁴Universidad Politécnica de Valencia, ES

14:20 W8.5.3 **Multicore In Real-Time Systems - Temporal Isolation Challenges Due To Shared Resources**
Ondrej Kotaba¹, Michael Paulitsch², Stefan Petters³, Henrik Theiling⁴ and Jan Nowotsch²
¹Honeywell, CZ; ²EADS, DE; ³ISEP, PT; ⁴SYSGO, DE

14:45 W8 **Coffee Break**

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15:00 W8.6 **Demonstrators and Poster session: Paralell demonstrators and posters**

Chair:

Simon Brewerton, Infineon Technologies, UK

15:00 W8.6.1 **Mixed-Critical Multi-Processor Motor Controller with Capabilities for Runtime Update of Software**

Simon Holmbacka¹, José Luis Gutiérrez Rivas² and Miguel Méndez³

¹Åbo Akademi, FI; ²University of Granada, ES; ³Seven Solutions, ES

15:00 W8.6.2 **RECOMP Demonstration of Mixed-Criticality Approach**

Claus Stellwag¹, Natalia Willey², Swapnil Gandhi³ and Thorsten Rosenthal³

¹Elektrobit, DE; ²Delphi, FR; ³Delphi, DE

15:00 W8.6.3 **Emergency Shutdown System Demonstrator**

Anton Hattendorf and Sebastian Voss, fortiss, DE

15:00 W8.6.4 **Tools for Compliance Management and Compositional Safety Assurance**

Alejandra Ruiz and Huáscar Espinoza, TECNALIA, ES

16:15 W8.7 **Wrap Up**

Chair:

Javier Díaz Alonso, University of Granada, ES

Further information are available at the [workshop website](#) [1].

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Links:

[1] <http://atc.ugr.es/wicert/>