## OSPERT 2015 Program

<table>
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<tr>
<th>Time</th>
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<td>8:00 – 9:00</td>
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| 9:00 – 10:30  | Keynote talk: Software Architectures for Advanced Driver Assistance Systems (ADAS)  
                 Robert Leibinger                                                   |
| 10:30 – 11:00 | Coffee Break                                                         |
| 11:00 – 12:30 | Session 1: RTOS Design Principles                                    |
|               | Back to the Roots: Implementing the RTOS as a Specialized State Machine  
                 Christian Dietrich, Martin Hoffmann, Daniel Lohmann              |
|               | Partial Paging for Real-Time NoC Systems                             
                 Adrian McMenamin, Neil Audsley                                    |
|               | Transactional IPC in Fiasco.OC - Can we get the multicore case verified for free?  
                 Till Smejkal, Adam Lackorzynski, Benjamin Engel, Marcus Völp      |
| 12:30 – 13:30 | Lunch                                                                |
| 13:30 – 15:00 | Session 2: Short Papers                                               |
|               | A New Configurable and Parallel Embedded Real-time Micro-Kernel for Multi-core platforms  
                 Antonio Paolillo, Olivier Desenfans, Vladimir Svoboda, Joël Goossens, Ben Rodríguez |
|               | Adaptive Resource Sharing in Multicores                              
                 Kai Lampka, Jonas Flodin, Yi Wang, Adam Lackorzynski             |
|               | Implementing Adaptive Clustered Scheduling in LITMUS<sup>RT</sup>      
                 Aaron Block, William Kelley                                        |
|               | Preliminary design and validation of a modular framework for predictable composition of medical imaging applications  
                 Martijn M.H.P. van den Heuvel, Sorin C. Crăcană, Hrishikesh L. Salunkhe, Johan J. Lukkien, Alok Lele, Dominique Segers |
|               | Increasing the Predictability of Modern COTS Hardware through Cache-Aware OS-Design  
                 Hendrik Borghorst, Olaf Spinczyk                                 |
| 15:00 – 15:30 | Coffee Break                                                         |
| 15:30 – 17:00 | Session 3: Isolation, Integration, and Scheduling                    |
|               | Evaluating the Isolation Effect of Cache Partitioning on COTS Multicore Platforms  
                 Heechul Yun, Pratap Kumar Valsan                                   |
|               | An experience report on the integration of ECU software using an HSF-enabled real-time kernel  
                 Martijn M.H.P. van den Heuvel, Erik J. Luit, Reinder J. Bril, Johan J. Lukkien, Richard Verhoeven, Mike Holenderski |
|               | Evolving Scheduling Strategies for Multi-Processor Real-Time Systems  
                 Frank Feinbube, Max Plauth, Christian Kieschnick, Andreas Polze    |
| 17:00 – 17:30 | Discussion and Closing Remarks                                       |

### Wednesday, July 8th – Friday, July 10th 2015

ECRTS main conference.