# Program

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>09:00 – 09:05</td>
<td>Workshop Opening</td>
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| 09:05 – 10:00 | **KEYNOTE 1:** "FPGA-supported domain-specific embedded computing"  
Dirk van den Heuvel, TOPIC Products |
| 10:00 – 10:30 | "Spatial Memory Trace Prediction"  
Nadeen Yassir Gebara, Paolo Ienne, Kermin Fleming |
| 10:30 – 11:00 | Coffee Break                                                            |
| 11:00 – 11:30 | "A Case for Better Integration of Host and Target Compilation When Using OpenCL for FPGAs"  
Taylor Lloyd, Artem Chikin, Erick Ochoa, Karim Ali, José Nelson Amaral |
| 11:30 – 12:00 | "PCleHLS: an OpenCL HLS framework"  
Malte Vesper, Dirk Koch, Khoa Pham |
| 12:00 – 12:30 | "SOCAO: Source-to-Source OpenCL Compiler for Intel-Altera FPGAs"  
Johanna Rohde, Marcos Martinez-Peiró, Rafael Gadea-Gironés |
| 12:30 – 14:00 | Lunch                                                                  |
| 14:00 – 14:55 | **KEYNOTE 2:** "FPGA-based Acceleration: we need source to source compilers!"  
João M.P. Cardoso, University of Porto/FEUP/INESC-TEC |
| 14:55 – 15:10 | "C++ support for better hardware/software co-design in C# with SME",  
Kenneth Skovhede, Brian Vinter (Short Paper) |
| 15:10 – 15:25 | "On the HLS Design of Bit-Level Operations and Custom Data Types",  
Jose Raul Garcia Ordaz, Dirk Koch (Short Paper) |
| 15:25 – 15:50 | Coffee Break                                                            |
| 15:50 – 16:20 | "A Highly Efficient and Comprehensive Image Processing Library for C++-based High-Level Synthesis"  
M. Akif Özkan, Oliver Reiche, Frank Hannig, Jürgen Teich |
| 16:20 – 16:50 | "Accelerating Linux Bash Commands on FPGAs Using Partial Reconfiguration"  
Edson Horta, Xinzi Shen, Khoa Pham, Dirk Koch |
| 16:50 – 17:20 | "Acceleration of Solving Quadratic Assignment Problems on Programmable SoC using High Level Synthesis"  
Kenji Kanazawa |
| 17:20 – 17:35 | "Using GCC Analysis Techniques to Enable Parallel Memory Accesses in HLS"  
Johanna Rohde, Christian Hochberger (Short Paper) |
| 17:35 – 17:40 | Workshop Closing                                                        |

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