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# Engineering Object Oriented Parallel Software EOOPS

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# Overview

- Session 1: Accelerators and GPU Computing
  - Chair: Heinz Kredel
- Session 2: MPI and Algorithms
  - Chair: Guillermo Lopez Taboada



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# Accelerators and GPU Computing

- Evaluation of Java for General Purpose GPU Computing
  - Jorge Docampo, Sabela Ramos, Guillermo L. Taboada, Roberto R. Exposito, Juan Tourino, Ramon Doallo
- Object support for OpenMP-style programming of GPU clusters in Java
  - Carolin Wolf, Georg Dotzler, Ronald Veldema, Michael Philippsen
- A Multi-GPU Framework for In-Memory Text Data Analytics
  - Poh Kit Chong, Ettikan Karuppiah, Keh Kok Yong



# MPI and Algorithms

- Promoting Data-Centric Supercomputing to the WWW World: Open MPI's Java Bindings
  - Alexey Cheptsov
- CUDA Powered User-Defined Types and Aggregates
  - Marcin Gorawski, Michal Lorek, Anna Gorawska
- Distributed Gröbner bases computation with MPJ
  - Heinz Kredel
- Straightforward parallelization of polynomial multiplication using parallel collections in Scala
  - Raphael Jolly



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