

SEMINARAS

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Supercomputation-Algorithm (SAL)

High-Performance Numerical Computing

High-Performance Computing (HPC) is a key part of the Numerical Computing involved in relevant models in Science and Engineering. The main goal of the HPC techniques is the optimisation of the performance. Recently, the reduction of energy consumption has been included as an additional objective. The prototype of the current supercomputer is a cluster of multi-core nodes with accelerator devices such as GPUs. Their exploitation requires the appropriate combination of several parallel programming paradigms for software development (for example MPI, OpenMP, CUDA). The appropriate exploitation of the modern HPC architectures is very relevant to optimise performance & energy. HPC applications based on the solution of large sparse linear systems are analyzed since they are relevant contributions of the SAL Almería University Research Group.

Kviečiame dalyvauti.

Seminaro sekretorius A. Bugajev