

GridKa School 2013: Big Data, Clouds and Grids

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Monday 26 August 2013 - Friday 30 August 2013

KIT Campus North, FTU

Scientific Programme

The topics of the GridKa School are summarized in three main tracks:

Cloud&Grid Technologies

Cloud basic concepts; Cloud provisioning; Cloud types; Infrastructure-as-a-Service (IaaS); public and private clouds; Platform-as-a-Service (PaaS); cloud computing; scalability and elasticity; provisioning and automation; cloud deployment and maintenance; cloud computing patterns; grid middleware flavors; middleware installation and administration; security in distributed environments; distributed information systems and discovery.

Big Data and Large Storage Systems

design of high-performance storage solutions; distributed file systems; big data and large scale data management; NoSQL databases; scientific data life cycle.

Effective programming and multi-core computing

advanced programming concepts; multi-core programming techniques; multi-threaded programming; scientific programming methods; statistical analysis techniques; concurrency; optimization algorithms.