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Practical approaches to Grid workload and resource management in the EGEE project

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Resource management and scheduling of distributed, data-driven applications in a Grid environment are challenging problems. Although significant results were achieved in the past few years, the development and the proper deployment of generic, reliable, standard components present issues that still need to be completely solved. Interested domains include workload management, resource discovery, resource matchmaking and brokering, accounting, authorization policies, resource access, reliability and dependability. The evolution towards a service-oriented architecture, supported by emerging standards, is another activity that will demand attention.

All these issues are being tackled within the EU-funded EGEE project (Enabling Grids for E-science in Europe), whose primary goals are the provision of robust middleware components and the creation of a reliable and dependable Grid infrastructure to support e-Science applications.

In this paper we present the plans and the preliminary activities aiming at providing adequate workload and resource management components, suitable to be deployed in a production-quality Grid.

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