

AHM 2004 Mini-symposium: Call for Participation Experiences and Future Challenges in Building Grids Using Open Standards

Considerable effort is being devoted within the UK e-Science programme to the application of middleware-oriented open standards (e.g. the Open Grid Services Architecture, Web Services, and other distributed computing infrastructures) to the Grid environment. As well as the application of existing standards, the programme is also funding fundamental research in this area. This symposium provides an opportunity to bring together those developing Grid middleware based on such standards, those who have experience of building Grids using current technology, and those concerned with research in future middleware technology. This symposium solicits papers on existing experience in middleware application development, Grid construction and operation, as well as on longer-term, next-generation, architectural issues such as component-based configurable and reconfigurable Grid architectures; peer-to-peer architectures; scalable, self-managing and self-healing architectures; and the wider application of paradigms such as service-, object- and aspect-orientation in Grid middleware.

The aims of the symposium are two-fold: i) to provide a forum for Grid middleware researchers to critically evaluate existing open standards-based middleware approaches, to identify new challenges (e.g., arising from current e-Science projects), and to explore new directions in middleware research, and ii) to work towards consensus on next-generation Grid middleware, highlighting emerging architectures and concepts.

We therefore solicit quality papers on topics such as:

- building and deploying standards-based Grid middleware
- moving from experimental to production Grids
- handling Grid middleware heterogeneity
- experience driven requirements for next-generation Grid middleware
- novel architectures for future Grid middleware
- applying Grids in novel environments (e.g. wireless networks, sensor networks)

The target audience for the symposium is Grid middleware researchers in the e-Science programme, and applications researchers with interests in middleware. The first 1.5 hours of the 2 hour symposium will be dedicated to short presentations, while the final half hour will be taken up with a discussion, leading to conclusions, on future challenges in building Grid middleware.

Organising/ Programme Committee

Steven Newhouse, LeSC (Chair)

Dave Berry, NeSC

Geoff Coulson, Lancaster University

David Duce, Oxford Brookes University

Savas Parastatidis, NEReSC

David Snelling, Fujitsu (TBC)

Guy Rixon, Cambridge (TBC)

To submit a paper please see the web page at <http://www.allhands.org.uk/submissions/>