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ISSN: 0167-739X

DESCRIPTION

Computing infrastructures and systems are rapidly developing and so are novel ways to map, control and execute scientific applications which become more and more complex and collaborative. Computational and storage capabilities, databases, sensors, and people need true collaborative tools. Over the last years there has been a real explosion of new theory and technological progress supporting a better understanding of these wide-area, fully distributed sensing and computing systems. Big Data in all its guises require novel methods and infrastructures to register, analyze and distill meaning.

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[2] Methods and tools: Tools for infrastructure development and monitoring Distributed dynamic resource management and scheduling Information management Protocols and emerging standards Methods and tools for internet computing Security aspects

[3] Theory: Process specification; Program and algorithm design Theoretical aspects of large scale communication and computation Scaling and performance theory Protocols and their verification

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Computer Scientists, Managers and Policy Makers in Information Technology.

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The Grid is a rapidly developing computing structure that allows components of our information technology infrastructure, computational capabilities, databases, sensors, and people to be shared flexibly as true collaborative tools. Over the last 3 years there has been a real explosion of new theory and technological progress supporting a better understanding of these wide-area, fully distributed computing systems. After the advances made in distributed system design, collaborative environments, high performance computing and high throughput computing, the Grid is the logical next step.

The new Aims and Scope of FGCS will cover new developments in:

[1] *Grid Applications and application support*: Novel applications eScience and eBusiness applications Problem solving environments and virtual laboratories Grid economy Semantic and knowledge based grids Collaborative Grids and virtual organizations High Performance and high throughput computing on grids Complex application workflows Scientific, industrial and social implications Grids in education

[2] *Grid methods and middleware*: Tools for grid development: monitoring and scheduling Distributed dynamic resource management Grid- and web-services Information management Protocols and emerging standards Peer to peer and internet computing Pervasive computing Grid Security

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[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[4] Cancer Research UK, *Cancer statistics reports for the UK*. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13.03.03).

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