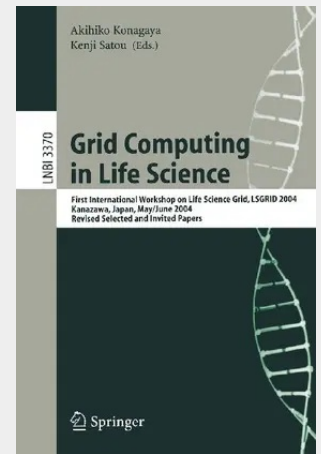


Grid Computing in Life Science

First International Workshop on Life Science Grid, LSGRID 2004 Kanazawa, Japan, May 31–June 1, 2004, Revised Selected and Invited Papers

Researchers in the field of life sciences rely increasingly on information technology to extract and manage relevant knowledge. The complex computational and data management needs of life science research make Grid technologies an attractive support solution. However, many important issues must be addressed before the Life Science Grid becomes commonplace. The 1st International Life Science Grid Workshop (LSGRID 2004) was held in Kanazawa Japan, May 31–June 1, 2004. This workshop focused on life science applications of grid systems especially for bionetwork research and systems biology which require heterogeneous data integration from genome to phenotype, mathematical modeling and simulation from molecular to population levels, and high-performance computing including parallel processing, special hardware and grid computing. Fruitful discussions took place through 18 oral presentations, including a keynote address and five invited talks, and 16 poster and demonstration presentations in the fields of grid infrastructure for life sciences, systems biology, massive data processing, databases and data grids, grid portals and pipelines for functional annotation, parallel and distributed applications, and life science grid projects. The workshop emphasized the practical aspects of grid technologies in terms of improving grid-enabled data/information/knowledge sharing, high-performance computing, and collaborative projects. There was agreement among the participants that the advancement of grid technologies for life science research requires further concerted actions and promotion of grid applications. We therefore concluded the workshop with the announcement of LSGRID 2005.

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