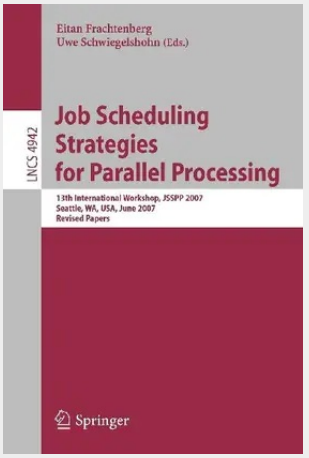
Frachtenberg / Schwiegelshohn

Job Scheduling Strategies for Parallel Processing

13th International Workshop, JSSPP 2007, Seattle, WA, USA, June 17, 2007, Revised Papers

th Thisvolumecontainsthepaperspresentedatthe13 workshoponJobSched- ing Strategies for Parallel Processing. The workshop was held in Seattle, WA, USA, on June 17, 2007, in conjunction with ICS 2007. All submitted papers went through a complete review process, with the full versionbeingreadandevaluatedbyanaverageof? vereviewers.Wewouldliketo thankthe ProgramCommittee membersandadditionalrefereesfortheirwilli- ness to participate in this e?ort and their excellent, detailed reviews: Nazareno Andrade, Su-Hui Chiang, Walfredo Cirne, Alvaro Coelho, Lauro Costa, Dror Feitelson, Allan Gottlieb, Andrew Grimshaw, Moe Jette, Richard Lagerstrom, Virginia Lo, Reagan Moore, Bill Nitzberg, Mark Squillante, John Towns, Jon Weissman, and Ramin Yahyapour. The accepted workshop papers in recent years show a departure from the supercomputer-centric viewpoint of parallel job scheduling. On the one hand, the ?eld of supercomputer scheduling is showing some signs of maturity, exh- ited in many widely accepted practices for job scheduling. On the other hand, many nontraditionalhigh-performancecomputing andparallelenvironments are emerging as viable solutions to many users and uses that cannot or need not - cess a traditional supercomputer, such as Grids, Web services, and commodity parallelcomputers.With the growingubiquity ofthese technologies,the requi- ment to schedule parallel jobs well on these various architectures also grows.

New Challenges of Parallel Job Scheduling.- Group-Wise Performance Evaluation of Processor Co-allocation in Multi-cluster Systems.- Enhancing an Open Source Resource Manager with Multi-core/Multi-threaded Support.- A Job Self-scheduling Policy for HPC Infrastructures.- QBETS: Queue Bounds Estimation from Time Series.- Probabilistic Backfilling.- Impact of Reservations on Production Job Scheduling.- Prospects of Collaboration between Compute Providers by Means of Job Interchange.- GridARS: An Advance Reservation-Based Grid Co-allocation Framework for Distributed Computing and Network Resources.- A Self-optimized Job Scheduler for Heterogeneous Server Clusters.



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