1. Record Nr. UNISA996465618103316

Titolo	Job Scheduling Strategies for Parallel Processing [[electronic resource]] : 13th International Workshop, JSSPP 2007, Seattle, WA, USA, June 17, 2007, Revised Papers / / edited by Eitan Frachtenberg, Uwe Schwiegelshohn
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2008
ISBN	3-540-78699-6
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (VII, 189 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 4942
Disciplina	003.3
Soggetti	Computer systems Operating systems (Computers) Computer programming Algorithms Microprocessors Computer architecture Logic design Computer System Implementation Operating Systems Programming Techniques Processor Architectures Logic Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	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.
Sommario/riassunto	This book constitutes the thoroughly refereed post-workshop proceedings of the 13th International Workshop on Job Scheduling Strategies for Parallel Processing, JSSPP 2007, held in Seattle, WA, USA, in June 2007, in conjunction with the 21st ACM International Conference on Supercomputing, ICS 2007. The 10 revised full research papers presented went through the process of strict reviewing and subsequent improvement. The papers cover all current issues of job scheduling strategies for parallel processing from the supercomputer-centric viewpoint but also address many nontraditional high-performance computing and parallel environments that cannot or need not access a traditional supercomputer, such as grids, Web services, and commodity parallel computers. The papers are organized in topical sections on performance and tools, queueing systems, as well as grid and heterogeneous architectures.