

Contents

Analysis of the Jobs Resource Utilization on a Production System	1
<i>Joseph Emeras, Cristian Ruiz, Jean-Marc Vincent, and Olivier Richard</i>	
Decentralized Preemptive Scheduling Across Heterogeneous Multi-core Grid Resources	22
<i>Arun Balasubramanian, Alan Sussman, and Norman Sadeh</i>	
Comparing Performance Heatmaps	42
<i>David Krakov and Dror G. Feitelson</i>	
Distributed Workflow Scheduling Under Throughput and Budget Constraints in Grid Environments	62
<i>Fei Cao, Michelle M. Zhu, and Dabin Ding</i>	
Multi Resource Fairness: Problems and Challenges.	81
<i>Dalibor Klusáček, Hana Rudová, and Michal Jaroš</i>	
Reducing Energy Costs for IBM Blue Gene/P via Power-Aware Job Scheduling	96
<i>Zhou Zhou, Zhiling Lan, Wei Tang, and Narayan Desai</i>	
Heuristics for Resource Matching in Intel's Compute Farm	116
<i>Ohad Shai, Edi Shmueli, and Dror G. Feitelson</i>	
On Task Assignment in Data Intensive Scalable Computing	136
<i>Giovanni Agosta, Gerardo Pelosi, and Ettore Speziale</i>	
A Periodic Portfolio Scheduler for Scientific Computing in the Data Center. . . .	156
<i>Kefeng Deng, Ruben Verboon, Kaijun Ren, and Alexandru Iosup</i>	
Variations of Conservative Backfilling to Improve Fairness	177
<i>Avinab Rajbhandary, David P. Bunde, and Vitus J. Leung</i>	
Author Index	193