1. Record Nr. UNISA990003262200203316

Titolo	Mathematical programming in theory and practice : proceedings of the NATO Advanced Study Institute. Figueira da Foz (Portugal), 12-23 june 1972 / Organized by A. S. Goncalves ; Editors: P. L. Hammer and G. Zoutendijk
Pubbl/distr/stampa	Amsterdam : North Holland, 1974
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Soggetti	Programmazione
Collocazione	519.7 MAT
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Autore	DAVITZ, R. Joel
Titolo	The language of emotion
Pubbl/distr/stampa	New York : Academie Press, 1969
Descrizione fisica	X, 197 p. ; 23 cm
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Autore	Zomaya Albert Y
Titolo	Energy efficient distributed computing systems / / edited by Albert Y. Zomaya, Young Choon Lee
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , c2012 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2012]
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Descrizione fisica	1 online resource (855 p.)
Collana	Wiley series on parallel and distributed computing ; ; 88 Wiley series on parallel and distributed computing
Classificazione	COM043000
Altri autori (Persone)	ZomayaAlbert Y LeeYoung-Choon <1973->
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Nota di contenuto	PREFACE xxix -- ACKNOWLEDGMENTS xxxi -- CONTRIBUTORS xxxiii -- 1 POWER ALLOCATION AND TASK SCHEDULING ON MULTIPROCESSORCOMPUTERS WITH ENERGY AND TIME CONSTRAINTS 1 / Keqin Li -- 1.1 Introduction 1 -- 1.1.1 Energy Consumption 1 -- 1.1.2 Power Reduction 2 -- 1.1.3 Dynamic Power Management 3 -- 1.1.4 Task Scheduling with Energy and Time Constraints 4 -- 1.1.5 Chapter Outline 5 -- 1.2 Preliminaries 5 -- 1.2.1 Power Consumption Model 5 -- 1.2.2 Problem Definitions 6 -- 1.2.3 Task Models 7 -- 1.2.4 Processor Models 8 -- 1.2.5 Scheduling Models 9 -- 1.2.6 Problem Decomposition 9 -- 1.2.7 Types of Algorithms 10 -- 1.3 Problem Analysis 10 -- 1.3.1 Schedule Length Minimization 10 -- 1.3.1.1 Uniprocessor computers 10 -- 1.3.1.2 Multiprocessor computers 11 -- 1.3.2 Energy Consumption Minimization 12 -- 1.3.2.1

772 -- 26.5.2 Dynamic Task Assignment 776 -- 26.5.2.1 Performance in static conditions 777 -- 26.5.2.2 Dynamic adaptability 780 -- 26.6 Conclusion 784 -- References 785 -- INDEX 787.

Sommario/riassunto

"The energy consumption issue in distributed computing systems raises various monetary, environmental and system performance concerns. Electricity consumption in the US doubled from 2000 to 2005. From a financial and environmental standpoint, reducing the consumption of electricity is important, yet these reforms must not lead to performance degradation of the computing systems. These contradicting constraints create a suite of complex problems that need to be resolved in order to lead to 'greener' distributed computing systems. This book brings together a group of outstanding researchers that investigate the different facets of green and energy efficient distributed computing.Key features: One of the first books of its kind Features latest research findings on emerging topics by well-known scientists Valuable research for grad students, postdocs, and researchers Research will greatly feed into other technologies and application domains"--