

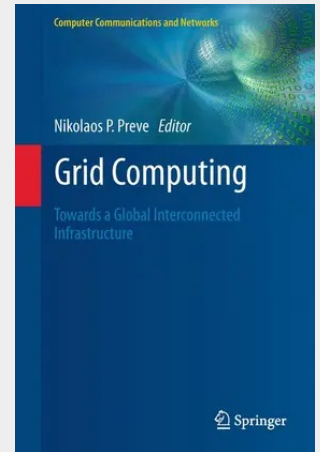
Preve

Grid Computing

Towards a Global Interconnected Infrastructure

This book presents research from many of the major projects involved in the emerging global grid infrastructure. With a particular focus on the practical advantages and applications of grid computing – including real case studies – the book provides an in-depth study of grid technology for a wide range of different needs. Topics: examines a remote instrumentation infrastructure, and a methodology to support e-science applications on e-infrastructures; describes the GEMS storage system, and pipeline workflows for optimizing end-to-end performance in wide-area networks; investigates semantic grid system architecture, social grid agents, and monitoring platforms designed for large-scale distributed systems; explores job control using service-level agreements; introduces the Composable Services Architecture for dynamic service provisioning, and the semantically driven communication middleware platform, Phoenix; discusses the PhyloGrid application, and a numerical simulation performed using grid computing.

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160,49 €

149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780857296757

Medium: Buch

ISBN: 978-0-85729-675-7

Verlag: Springer

Erscheinungstermin: 25.06.2011

Sprache(n): Englisch

Auflage: 2011

Serie: Computer Communications and Networks

Produktform: Gebunden

Gewicht: 658 g

Seiten: 312

Format (B x H): 160 x 241 mm

