Handbook of Research on High Performance and Cloud Computing in Scientific Research and Education

Part of the Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series

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As information systems used for research and educational purposes have become more complex, there has been an increase in the need for new computing architecture. High performance and cloud computing provide reliable and cost-effective information technology infrastructure that enhances research and educational processes.

Handbook of Research on High Performance and Cloud Computing in Scientific Research and Education presents the applications of cloud computing in various settings, such as scientific research, education, e-learning, ubiquitous learning, and social computing. Providing various examples, practical solutions, and applications of high performance and cloud computing; this book is a useful reference for professionals and researchers discovering the applications of information and communication technologies in science and education, as well as scholars seeking insight on how modern technologies support scientific research.

Topics Covered:

- Knowledge Management
- High Performance Computing
- Pervasive and Ubiquitous Computing
- Cloud Computing
- Grid Computing
- E-Education
- Parallel and Distributed Algorithms

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners. Ideal for classroom use.

Marijana Despotovic-Zrakic received her BS degree at the Faculty of Organizational Sciences, University of Belgrade in 2001 and a MSc degree in 2003. She received her PhD degree with the thesis "Design of methods for postgraduate e-education based on Internet technologies" in 2006. Since 2001, she has been teaching several courses at the Faculty of Organizational Sciences: E-business, E-education, Simulation and simulation languages, Internet technologies, Internet marketing, Risk management in information systems, M-business, and Internet of things. She has been an Associate Professor since 2011. Her current professional and scientific interests include software project management, information systems, Internet technologies, and e-education.

Section 1: Cloud Computing Concepts

Chapter 1
From Mainframe to Cloud
Božidar Radenković (University of Belgrade, Serbia)
Petar Kočović (Calisto Adriatic/Gartner, Serbia)

Chapter 2
Organizational and Management Aspects of Cloud Computing Application in Scientific Research
Mladen Čudanov (University of Belgrade, Serbia)
Jovan Krivokapić (University of Belgrade, Serbia)

Chapter 3
Digital Identity Management in Cloud
Vladimir Vujin (University of Belgrade, Serbia)
Konstantin Simić (University of Belgrade, Serbia)
Borko Kovačević (Microsoft, Serbia)

Chapter 4
From Software Specification to Cloud Model
Dušan Savić (University of Belgrade, Serbia)
Siniša Vlajić (University of Belgrade, Serbia)
Marijana Despotović-Zrakić (University of Belgrade, Serbia)

Section 2: Cloud Computing in Education

Chapter 5
Model of E-Education Infrastructure based on Cloud Computing
Zorica Bogdanović (University of Belgrade, Serbia)
Aleksandar Milić (University of Belgrade, Serbia)
Aleksandra Labus (University of Belgrade, Serbia)

Chapter 6
Mobile Learning Services on Cloud
Dušan Barać (University of Belgrade, Serbia)
Miloš Radenković (Union University, Serbia)
Branislav Jovanić (University of Belgrade, Serbia)

Chapter 7
Student Relationship Management Using Social Clouds
Marko Vulić (University of Belgrade, Serbia)
Pavle Petrović (University of Belgrade, Serbia)
Ivanka Kovačević (CT Computers, Serbia)
Vanjica Ratković Živanović (Radio Television Serbia (RTS), Serbia)

Chapter 8
Ontology-Based Multimodal Language Learning
Miloš Milutinović (University of Belgrade, Serbia)
Vukašin Stojiljković (Institute for the Serbian Language of the Serbian Academy of Sciences and Arts, Serbia)
Saša Lazarević (University of Belgrade, Serbia)

Section 3: High Performance and Cloud Computing in Scientific Research

Chapter 9
High Performance and Grid Computing Developments and Applications in Condensed Matter Physics
Aleksandar Belić (University of Belgrade, Serbia)

Chapter 10
Exploiting Spatial and Temporal Patterns in a High-Performance CPU
Goran Rakočević (Serbian Academy of Sciences and Arts, Serbia)
Veljko Milutinović (Univeristy of Belgrade, Serbia)

Chapter 11
Designing Parallel Meta-Heuristic Methods
Teodor Gabriel Crainic (Département de Management et Technologie, Université du Québec à Montréal, CIRRELT, Canada)
Tatjana Davidović (Mathematical Institute, Serbian Academy of Science and Arts, Serbia)
Dušan Ramljak (Center for Data Analytics and Biomedical Informatics, Temple University, USA)

Chapter 12
Application of Cloud-Based Simulation in Scientific Research
Mihailo Marinković (Telenor, Serbia)
Sava Čavoški (MDS Information Engineering, Serbia)
Aleksandar Marković (University of Belgrade, Serbia)

Chapter 13
Grids, Clouds, and Massive Simulations
Levente Hajdu (Brookhaven National Laboratory, USA)
Jérôme Lauret (Brookhaven National Laboratory, USA)
Radomir A. Mihajlović (New York Institute of Technology, USA)

Chapter 14
Model of Interoperable E-Business in Traffic Sector based on Cloud Computing Concepts
Slađana Janković (University of Belgrade, Serbia)
Snežana Mladenović (University of Belgrade, Serbia)
Slavko Vesković (University of Belgrade, Serbia)

Chapter 15
Dot Net Platform for Distributed Evolutionary Algorithms with Application in Hydroinformatics
Boban Stojanović (Faculty of Science, University of Kragujevac, Serbia)
Nikola Milivojević ("Jaroslav Černi" Institute for the Development of Water Resources, Serbia)
Miloš Ivanović (Faculty of Science, University of Kragujevac, Serbia)
Dejan Divac ("Jaroslav Černi" Institute for the Development of Water Resources, Serbia)

Section 4: Security Issues

Chapter 16
Security Issues of Cloud Computing and an Encryption Approach
Miodrag J. Mihaljević (Mathematical Institute, Serbian Academy of Sciences and Arts, Serbia & Chuo University, Japan)
Hideki Imai (Chuo University, Japan)

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