
CALL FOR BOOK CHAPTERS

TITLE OF BOOK: GRID AND CLOUD DATABASE MANAGEMENT
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TO BE PUBLISHED BY: SPRINGER

Introduction

This book aims at providing an in depth view of grid and cloud database management: perspectives, challenges, requirements, scenarios, architectural/infrastructural aspects, performance issues, etc.
Real use cases in several scientific domains will be also proposed.
Research projects and commercial point of view will be covered as well.

Aims and Goals

The main goals of the book are:

- to provide a consistent and high quality book (from a scientific point of view) on grid/cloud database management;
- to educate the reader about both basic and advanced concepts on grid database management;
- to represent or to be considered as a reference book in this area;
- to present the state of the art and future directions in a complete manner.

Intended Audience

The book will be published by Springer in 2011. This book will serve as a reference book of scholarly value for advanced level students, researchers, and professionals.

Main Topics:

Topics of interest include, but are not limited to:

- Grid-DB main challenges, requirements and introductory aspects
- Security for grid/cloud database systems
- Grid-DB/Cloud-DB standardization activities
- Specific Scientific Research Projects in the area
- Grid database management (integration, replication, workflow, etc.)
- Grid-DB and application domain contexts (Earth Science, Bioinformatics, Climate Change, etc.)
- Cloud DB main challenges, requirements and relevant scenarios
- Scientific-based and Vendor-oriented approaches

Main Areas:

Areas of interest include, but are not limited to:

- Data Virtualization
- Digital Libraries
- Ontology-based integration of data and services
- Grid Database Access Management and Integration Services
- Grid/Cloud Database security and privacy
- Grid/Cloud Scientific Gateways to manage data banks
- Data Grids and Metadata Management
- Grid and Cloud-based approaches for data warehousing and data mining
- Workflow/Dataflow management in Grids
- Database-intensive Grid/Cloud applications
- Distributed Database Management
- High performance Data Mining in grid and cloud based environments
- P2P database integration

Technical Contents

The chapters may contain any, or a combination, of the following research contributions in the above mentioned areas:

- Algorithms, Middleware, Protocol, and Performance by Simulation
- Real-World Design, Implementation, and Performance Evaluation
- Software Design, Software Models, Implementations and Verifications, Performance

Submission Guidelines

Researchers and practitioners are invited to submit on or before March 25, 2010, a half page proposal clearly explaining the mission and concerns of his or her proposed chapter, to the Editors (giovanni.aloisio[NOSPAM_AT]unisalento.it, sandro.fiore[NOSPAM_AT]unisalento.it).

The proposal should contain the following information:

- 1.1 Name of chapter,
- 1.2 Name of author(s), e-mail address and affiliation,
- 1.3 Technical area covered in the chapter,
- 1.4 Main contributions which will be made by author(s),
- 1.5 Specify the technical novelty in the contribution
- 1.6 Detailed table of contents of the chapter

Authors of accepted proposals will be notified by April 1, 2010 about the status of their proposals and sent chapter guidelines.

Full chapters are expected to be submitted by July 30, 2010. All submitted chapters will be reviewed on a double-blind review basis.

Contributors may also be requested to serve as reviewers for this project.

Publisher

This book is scheduled to be published by Springer.
This publication is anticipated to be released in 2011.

Important Dates (provisional schedule)

Proposal Submission Deadline: March 25, 2010

Notification of Acceptance/Rejection: April 1, 2010
Full Chapter Submission: July 30, 2010
Review Results Returned: October 31, 2010
Revised Chapter Submission: November 30, 2010
Final Deadline: December 31, 2010

Inquiries and submissions can be forwarded electronically to: giovanni.aloisio@unisalento.it,
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