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¹ INRIA, Sophia Antipolis Research Unit 06902, Sophia Antipolis, France Michel.Cosnard@inria.fr
² University of Westminster, School of Computer Science HA1 3TP, London-Harrow, Great Britain v.s.getov@wmin.ac.uk

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Future Generation Grids: Proceedings of the Workshop on Future Generation Grids November 1-5, 2004, Dagstuhl, Germany
Craig A. Lee, B. Scott Michel, Ewa Deelman, Jim Blythe (auth.), Vladimir Getov, Domenico Laforenza, Alexander Reinefeld (eds.)

Future Generation Grids: Proceedings of the Workshop on ...

Vladimir Getov is the author of Performance Analysis and Grid Computing (0.0 avg rating, 0 ratings, 0 reviews, published 2003), Component Models and Syst...

The CoreGRID Network of Excellence (NoE) project began in September 2004. Two months later, in November 2004, the first CoreGRID Integration Workshop was held within the framework of the prestigious international Dagstuhl seminars. CoreGRID aims at strengthening and advancing long-term research, knowledge transfer and integration in the area of Grid and Peer-to-Peer technologies. CoreGRID is a Network of Excellence - a new type of project within the European 6th Framework Programme, to ensure progressive evolution and durable integration of the European Grid research community. To achieve this objective, CoreGRID brings together a critical mass of well-established researchers and doctoral students from forty-two institutions that have constructed an ambitious joint programme of activities. Although excellence is a goal to which CoreGRID is committed, durable integration is our main concern. It means that CoreGRID has to carry out activities to improve the effectiveness of European research in Grid by coordinating and adapting the participants' activities in Grid research, to share resources such as Grid testbeds, to encourage exchange of research staff and students, and to ensure close collaboration and wide dissemination of its results to the international community. Organising CoreGRID Integration Workshops is one of the activities that aims at identifying and promoting durable collaboration between partners involved in the network.

This text is an introduction to methods of grid generation technology in scientific computing. Special attention is given to methods developed by the author for the treatment of singularly-perturbed equations, e.g. in modeling high Reynolds number flows. Functionals of conformality, orthogonality, energy and alignment are discussed.

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The process of breaking up a physical domain into smaller sub-domains, known as meshing, facilitates the numerical solution of partial differential equations used to simulate physical systems. In an updated and expanded Second Edition, this monograph gives a detailed treatment based on the numerical solution of inverted Beltrami and diffusion equations with respect to monitor metrics for generating both structured and unstructured grids in domains and on surfaces.

Grids, P2P and Services Computing, the 12th volume of the CoreGRID series, is based on the CoreGrid ERCIM Working Group Workshop on Grids, P2P and Service Computing in Conjunction with EuroPar 2009. The workshop will take place August 24th, 2009 in Delft, The Netherlands. Grids, P2P and Services Computing, an edited volume contributed by well-established researchers worldwide, will focus on solving research challenges for Grid and P2P technologies. Topics of interest include: Service Level Agreement, Data & Knowledge Management, Scheduling, Trust and Security, Network Monitoring and more. Grids are a crucial enabling technology for scientific and industrial development. This book also includes new challenges related to service-oriented infrastructures. Grids, P2P and Services Computing is designed for a professional audience composed of researchers and practitioners within the Grid community industry. This volume is also suitable for advanced-level students in computer science.

Making Grids Work includes selected articles from the CoreGRID Workshop on Grid Programming Models, Grid and P2P Systems Architecture, Grid Systems, Tools and Environments held at the Institute of Computer Science, Foundation for Research and Technology - Hellas in Crete, Greece, June 2007. This workshop brought together representatives of the academic and industrial communities performing Grid research in Europe. Organized within the context of the CoreGRID Network of Excellence, this workshop provided a forum for the presentation and exchange of views on the latest developments in Grid Technology research. This volume is the 7th in the series of CoreGRID books. Making Grids Work is designed for a professional audience, composed of researchers and practitioners in industry. This volume is also suitable for graduate-level students in computer science.

Past and current research in computer performance analysis has focused primarily on dedicated parallel machines. However, future applications in the area of high-performance computing will not only use individual parallel systems but a large set of networked resources. This scenario of computational and data Grids is attracting a great deal of attention from both computer and computational scientists. In addition to the inherent complexity of parallel machines, the sharing and transparency of the available resources introduces new challenges on performance analysis, techniques, and systems. In order to meet those challenges, a multi-disciplinary approach to the multi-faceted problems of performance is required. New degrees of freedom will come into play with a direct impact on the performance of Grid computing, including wide-area network performance, quality-of-service (QoS), heterogeneity, and middleware systems, to mention only a few.

The focus of these conference proceedings is on research, development, and applications in the fields of numerical geometry, scientific computing and numerical simulation, particularly in mesh generation and related problems. In addition, this year's special focus is on Delaunay triangulations and their applications, celebrating the 130th birthday of Boris Delaunay. In terms of content, the book strikes a balance between engineering algorithms and mathematical foundations. It presents an overview of recent advances in numerical geometry, grid generation and adaptation in terms of mathematical foundations, algorithm and software development and applications. The specific topics covered include: quasi-conformal and quasi-isometric mappings, hyperelastic deformations, multidimensional generalisations of the equidistribution principle, discrete differential geometry, spatial and metric encodings, Voronoi-Delaunay theory for tilings and partitions, duality in

mathematical programming and numerical geometry, mesh-based optimisation and optimal control methods. Further aspects examined include iterative solvers for variational problems and algorithm and software development. The applications of the methods discussed are multidisciplinary and include problems from mathematics, physics, biology, chemistry, material science, and engineering.

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The electrical grid goes everywhere-it's the largest and most complex machine ever made. Yet the system is built in such a way that the bigger it gets, the more inevitable its collapse. Named the greatest engineering achievement of the 20th century by the National Academy of Engineering, the electrical grid is the largest industrial investment in the history of humankind. It reaches into your home, snakes its way to your bedroom, and climbs right up into the lamp next to your pillow. At times, it almost seems alive, like some enormous circulatory system that pumps life to big cities and the most remote rural areas. Constructed of intricately interdependent components, the grid operates on a rapidly shrinking margin for error. Things can-and do-go wrong in this system, no matter how many preventive steps we take. Just look at the colossal 2003 blackout, when 50 million Americans lost power due to a simple error at a power plant in Ohio; or the one a month later, which blacked out 57 million Italians. And these two combined don't even compare to the 2001 outage in India, which affected 226 million people. The Grid is the first history of the electrical grid intended for general readers, and it comes at a time when we badly need such a guide. As we get more and more dependent on electricity to perform even the most mundane daily tasks, the grid's inevitable shortcomings will take a toll on populations around the globe. At a moment when energy issues loom large on the nation's agenda and our hunger for electricity grows, The Grid is as timely as it is compelling.

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