

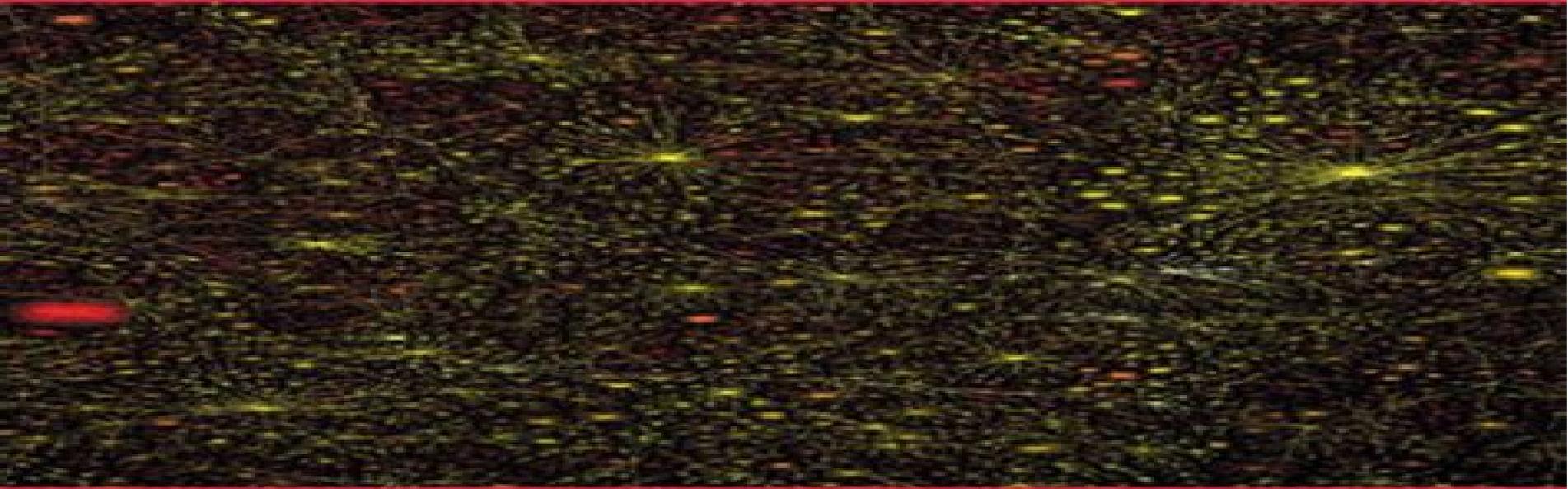


The Boost Graph Library

User Guide and Reference Manual

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C++ In-Depth Series • Bjarne Stroustrup

Boost Graph Library User Guide And Reference Manual

Clemens Wendtner



Boost Graph Library User Guide And Reference Manual:

The Boost Graph Library: User Guide and Reference Manual Jeremy G Siek,2001 *Boost Graph Library* Jeremy Siek,2002 The Boost Graph Library Jeremy G. Siek,Lie-Quan Lee,Andrew Lumsdaine,2001-12-20 The Boost Graph Library BGL is the first C library to apply the principles of generic programming to the construction of the advanced data structures and algorithms used in graph computations Problems in such diverse areas as Internet packet routing molecular biology scientific computing and telephone network design can be solved by using graph theory This book presents an in depth description of the BGL and provides working examples designed to illustrate the application of BGL to these real world problems Written by the BGL developers The Boost Graph Library User Guide and Reference Manual gives you all the information you need to take advantage of this powerful new library Part I is a complete user guide that begins by introducing graph concepts terminology and generic graph algorithms This guide also takes the reader on a tour through the major features of the BGL all motivated with example problems Part II is a comprehensive reference manual that provides complete documentation of all BGL concepts algorithms and classes Readers will find coverage of Graph terminology and concepts Generic programming techniques in C Shortest path algorithms for Internet routing Network planning problems using the minimum spanning tree algorithms BGL algorithms with implicitly defined graphs BGL Interfaces to other graph libraries BGL concepts and algorithms BGL classes graph auxiliary and adaptor Groundbreaking in its scope this book offers the key to unlocking the power of the BGL for the C programmer looking to extend the reach of generic programming beyond the Standard Template Library *Handbook of Data Structures and Applications* Dinesh P. Mehta,Sartaj Sahni,2018-02-21 The Handbook of Data Structures and Applications was first published over a decade ago This second edition aims to update the first by focusing on areas of research in data structures that have seen significant progress While the discipline of data structures has not matured as rapidly as other areas of computer science the book aims to update those areas that have seen advances Retaining the seven part structure of the first edition the handbook begins with a review of introductory material followed by a discussion of well known classes of data structures Priority Queues Dictionary Structures and Multidimensional structures The editors next analyze miscellaneous data structures which are well known structures that elude easy classification The book then addresses mechanisms and tools that were developed to facilitate the use of data structures in real programs It concludes with an examination of the applications of data structures Four new chapters have been added on Bloom Filters Binary Decision Diagrams Data Structures for Cheminformatics and Data Structures for Big Data Stores and updates have been made to other chapters that appeared in the first edition The Handbook is invaluable for suggesting new ideas for research in data structures and for revealing application contexts in which they can be deployed Practitioners devising algorithms will gain insight into organizing data allowing them to solve algorithmic problems more efficiently

Handbook of Discrete and Computational Geometry Csaba D. Toth,Joseph O'Rourke,Jacob E. Goodman,2017-11-22

The Handbook of Discrete and Computational Geometry is intended as a reference book fully accessible to nonspecialists as well as specialists covering all major aspects of both fields The book offers the most important results and methods in discrete and computational geometry to those who use them in their work both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as operations research molecular biology and robotics Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years This has been fueled partly by the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry This synthesis between discrete and computational geometry lies at the heart of this Handbook A growing list of application fields includes combinatorial optimization computer aided design computer graphics crystallography data analysis error correcting codes geographic information systems motion planning operations research pattern recognition robotics solid modeling and tomography

The Shortest Path Problem Camil Demetrescu, Andrew V. Goldberg, David S. Johnson, **C++ Network Programming** Douglas C. Schmidt, Stephen D. Huston, 2003 Writing high quality networked applications is difficult it s expensive complicated and error prone This book picks up where volume one left off and guides C programmers through using the Adaptive Communication Environment ACE the most complete toolkit available for networked programming **C++ Template Metaprogramming** David Abrahams, Aleksey Gurtovoy, 2005 This book is aimed at any programmer who is comfortable with idioms of the Standard Template Library STL C power users will gain a new insight into their existing work and a new fluency in the domain of metaprogramming Intermediate level programmers who have learned a few advanced template techniques will see where these tricks fit in the big picture and will gain the conceptual foundation to use them with discipline Programmers who have caught the scent of metaprogramming but for whom it is still mysterious will finally gain a clear understanding of how when and why it works All readers will leave with a new tool of unprecedented power at their disposal the Boost Metaprogramming Library Jacket **C++ how to Program** Paul J. Deitel, Harvey M. Deitel, 2008 Introduces the fundamentals of object oriented programming and generic programming in C Topics include classes objects and encapsulation inheritance and polymorphism and object oriented design with the UML **ACM SIGPLAN Notices** ,2006-07 *Medical Imaging* ,2003 Underwater Technology 2004 ,2004 **The British National Bibliography** Arthur James Wells, 2004 **Documentation Abstracts** ,1987 **American Printer** ,1992-04 Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004 PC World ,1984 **Library Media Connection** ,2003 *Library Literature & Information Science* ,2009 An index to library and information science literature Canadian Periodical Index ,2000

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