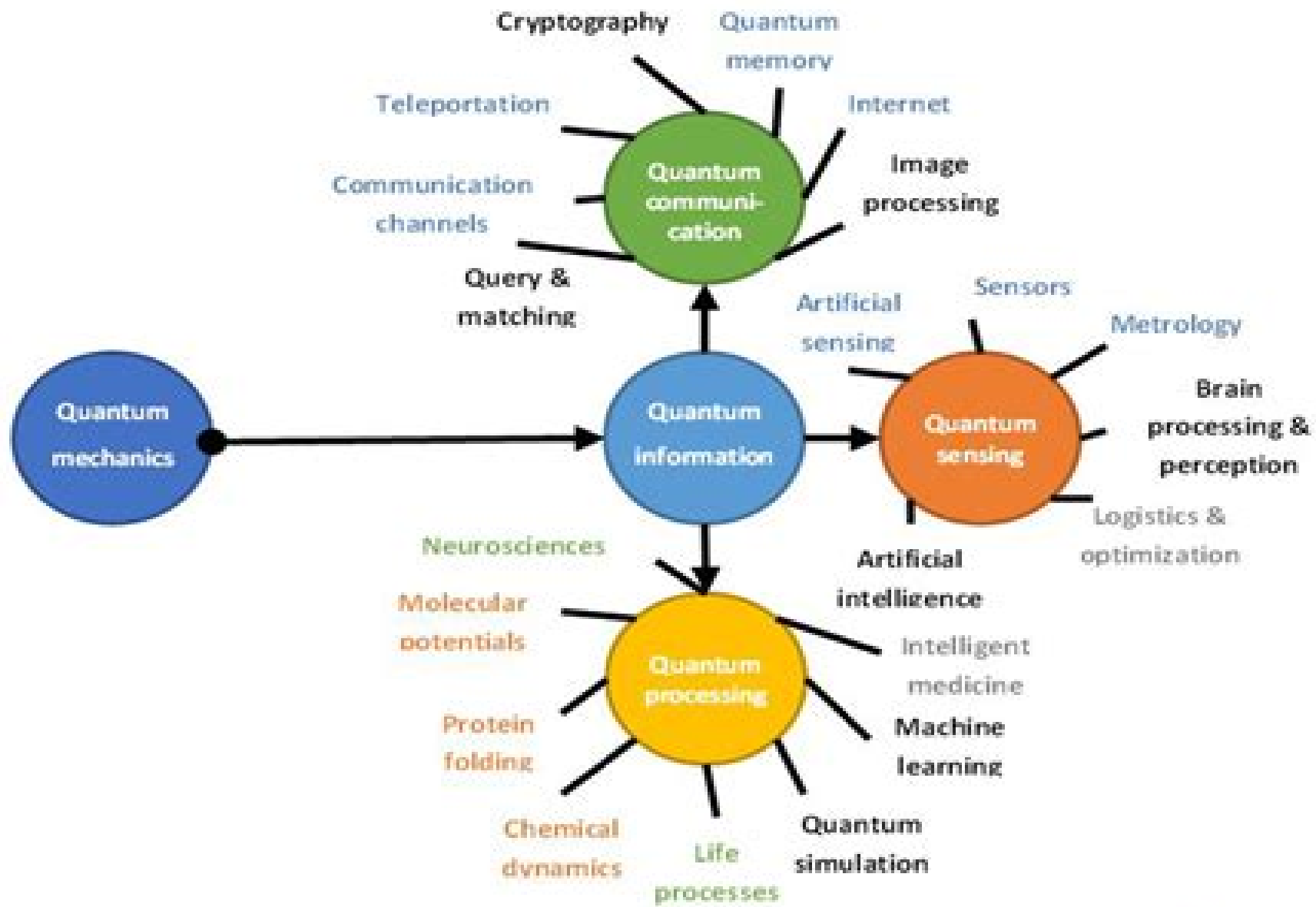


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Quantum Information Science

Dan C. Marinescu



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Quantum Information Gregg Jaeger, 2006-11-15 This book gives an overview for practitioners and students of quantum physics and information science. It provides ready access to essential information on quantum information processing and communication such as definitions, protocols, and algorithms. Quantum information science is rarely found in clear and concise form. This book brings together this information from its various sources. It allows researchers and students in a range of areas including physics, photonics, solid state electronics, nuclear magnetic resonance, and information technology in their applied and theoretical branches to have this vital material directly at hand. *Quantum Information Science* Riccardo

Manenti, Mario Motta, 2023-08-02 This book provides an introduction to quantum information science, the science at the basis of the new quantum revolution of this century. It teaches the reader to build and program a quantum computer and leverage its potential. Aimed at quantum physicists and computer scientists, the book covers several topics including quantum algorithms, quantum chemistry, and quantum engineering of superconducting qubits. Written by two professionals in the experimental and theoretical fields of quantum information science and containing over 200 figures and 100 exercises with solutions and summaries at the end of each chapter, this book is set to become a new standard in the field. **Fundamentals**

of Quantum Information Dieter Heiss, 2002-09-18 Quantum information science is a rapidly developing field that not only promises a revolution in computer sciences but also touches deeply the very foundations of quantum physics. This book consists of a set of lectures by leading experts in the field that bridges the gap between standard textbook material and the research literature, thus providing the necessary background for postgraduate students and non-specialist researchers wishing to familiarize themselves with the subject thoroughly and at a high level. This volume is ideally suited as a course book for postgraduate students and lecturers will find in it a large choice of material for bringing their courses up to date.

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comprehensive introduction to the major new subject of quantum computing and quantum information. *Multi-Photon Quantum Information Science and Technology in Integrated Optics* Jonathan C.F. Matthews, 2012-10-05 Photons are an attractive option for testing fundamental quantum physics and developing new quantum-enhanced technology including highly advanced computers and simulators as well as precision sensing beyond shot noise. Traditionally bulk optical

components have been bolted onto optical benches to realize metre scale quantum circuits. However, this approach is ultimately proving unwieldy for increasing the complexity and for scaling up to practical quantum technologies based on photons. The work presented here demonstrates a series of quantum photonic devices based on waveguide circuits embedded in miniature monolithic chips. This represents a paradigm shift in the underlying architecture of quantum optics and provides key building blocks for all optical and hybrid quantum technologies.

Classical and Quantum Information Dan C. Marinescu, 2011-01-07 A new discipline Quantum Information Science has emerged in the last two decades of the twentieth century at the intersection of Physics, Mathematics and Computer Science. Quantum Information Processing is an application of Quantum Information Science which covers the transformation, storage and transmission of quantum information; it represents a revolutionary approach to information processing. Classical and Quantum Information covers topics in quantum computing, quantum information theory and quantum error correction, three important areas of quantum information processing. Quantum information theory and quantum error correction build on the scope, concepts, methodology and techniques developed in the context of their close relatives: classical information theory and classical error-correcting codes. Presents recent results in quantum computing, quantum information theory and quantum error-correcting codes. Covers both classical and quantum information theory and error-correcting codes. The last chapter of the book covers physical implementation of quantum information processing devices. Covers the mathematical formalism and the concepts in Quantum Mechanics critical for understanding the properties and the transformations of quantum information.

The Theory of Quantum Information John Watrous, 2018-04-26 Formal development of the mathematical theory of quantum information with clear proofs and exercises. For graduate students and researchers.

Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, D.B.A., Mehdi, 2014-07-31 This 10 volume compilation of authoritative research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions and future directions in the field of information science and technology. Provided by publisher.

Introduction to Quantum Information Science Masahito Hayashi, Satoshi Ishizaka, Akinori Kawachi, Gen Kimura, Tomohiro Ogawa, 2014-08-22 This book presents the basics of quantum information: the foundation of quantum theory, quantum algorithms, quantum entanglement, quantum entropies, quantum coding, quantum error correction and quantum cryptography. The required knowledge is only elementary calculus and linear algebra. This way the book can be understood by undergraduate students. In order to study quantum information, one usually has to study the foundation of quantum theory. This book describes it from more of an operational viewpoint which is suitable for quantum information, while traditional textbooks of quantum theory lack this viewpoint. The current book bases on Shor's algorithm, Grover's algorithm, Deutsch-Jozsa's algorithm as basic algorithms. To treat several topics in quantum information, this book covers several kinds of information quantities in quantum systems including von Neumann entropy. The limits of several kinds

of quantum information processing are given. As important quantum protocols, this book contains quantum teleportation, quantum dense coding, quantum data compression. In particular, conversion theory of entanglement via local operation and classical communication are treated too. This theory provides the quantification of entanglement which coincides with von Neumann entropy. The next part treats the quantum hypothesis testing. The decision problem of two candidates of the unknown state are given. The asymptotic performance of this problem is characterized by information quantities. Using this result, the optimal performance of classical information transmission via noisy quantum channel is derived. Quantum information transmission via noisy quantum channel by quantum error correction are discussed too. Based on this topic, the secure quantum communication is explained. In particular, the quantification of quantum security which has not been treated in existing book is explained. This book treats quantum cryptography from a more practical viewpoint.

Encyclopedia of Information Science and Technology, Fourth Edition Khosrow-Pour, D.B.A., Mehdi, 2017-06-20

In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing well-established reference source that is ideally designed to disseminate the most forward thinking and diverse research findings. With critical perspectives on the impact of information science, management, and new technologies in modern settings including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library.

Quantum Information Gernot Alber, Thomas Beth, Michal Horodecki, Pawel Horodecki, Ryszard Horodecki, Martin Rötteler, Harald Weinfurter, Reinhard Werner, Anton Zeilinger, 2002-06-20

A self-contained introduction to the basic theoretical concepts, experimental techniques, and recent advances in the fields of quantum communication, quantum information, and quantum computation. The introductory and self-contained character of the contributions should make this book particularly attractive to students and active researchers in physics and computer science who want to become acquainted with the underlying basic ideas and recent advances in the rapidly evolving field of quantum information processing.

Quantum Information Processing and Quantum Error Correction Ivan Djordjevic, 2012-04-16

Quantum Information Processing and Quantum

Error Correction is a self contained tutorial based introduction to quantum information quantum computation and quantum error correction Assuming no knowledge of quantum mechanics and written at an intuitive level suitable for the engineer the book gives all the essential principles needed to design and implement quantum electronic and photonic circuits Numerous examples from a wide area of application are given to show how the principles can be implemented in practice This book is ideal for the electronics photonics and computer engineer who requires an easy to understand foundation on the principles of quantum information processing and quantum error correction together with insight into how to develop quantum electronic and photonic circuits Readers of this book will be ready for further study in this area and will be prepared to perform independent research The reader completed the book will be able design the information processing circuits stabilizer codes Calderbank Shor Steane CSS codes subsystem codes topological codes and entanglement assisted quantum error correction codes and propose corresponding physical implementation The reader completed the book will be proficient in quantum fault tolerant design as well Unique Features Unique in covering both quantum information processing and quantum error correction everything in one book that an engineer needs to understand and implement quantum level circuits Gives an intuitive understanding by not assuming knowledge of quantum mechanics thereby avoiding heavy mathematics In depth coverage of the design and implementation of quantum information processing and quantum error correction circuits Provides the right balance among the quantum mechanics quantum error correction quantum computing and quantum communication Dr Djordjevic is an Assistant Professor in the Department of Electrical and Computer Engineering of College of Engineering University of Arizona with a joint appointment in the College of Optical Sciences Prior to this appointment in August 2006 he was with University of Arizona Tucson USA as a Research Assistant Professor University of the West of England Bristol UK University of Bristol Bristol UK Tyco Telecommunications Eatontown USA and National Technical University of Athens Athens Greece His current research interests include optical networks error control coding constrained coding coded modulation turbo equalization OFDM applications and quantum error correction He presently directs the Optical Communications Systems Laboratory OCSL within the ECE Department at the University of Arizona Provides everything an engineer needs in one tutorial based introduction to understand and implement quantum level circuits Avoids the heavy use of mathematics by not assuming the previous knowledge of quantum mechanics Provides in depth coverage of the design and implementation of quantum information processing and quantum error correction circuits

Quantum Information Processing with Diamond Steven Prawer,Igor Aharonovich,2014-05-12 Diamond nitrogen vacancy NV color centers can transform quantum information science into practical quantum information technology including fast safe computing Quantum Information Processing with Diamond looks at the principles of quantum information science diamond materials and their applications Part one provides an introduction to quantum information processing using diamond as well as its principles and fabrication techniques Part two outlines experimental demonstrations of quantum information

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Quantum Information and Quantum Computing Mikio Nakahara, Yoshitaka Sasaki, 2012-09-17 The open research center project Interdisciplinary fundamental research toward realization of a quantum computer has been supported by the Ministry of Education Japan for five years This is a collection of the research outcomes by the members engaged in the project To make the presentation self contained it starts with an overview by Mikio Nakahara which serves as a concise introduction to quantum information and quantum computing Subsequent contributions include subjects from physics chemistry mathematics and information science reflecting upon the wide variety of scientists working under this project These contributions introduce NMR quantum computing and related techniques number theory and coding theory quantum error correction photosynthesis non classical correlations and entanglement neutral atom quantum computer among others Each of contributions will serve as a short introduction to these cutting edge research fields

Quantum Information with Continuous Variables of Atoms and Light N. J. Cerf, Gerd Leuchs, E. S. Polzik, 2007 Quantum information describes the new field which bridges quantum physics and information science The quantum world allows for completely new architectures and protocols While originally formulated in continuous quantum variables the field worked almost exclusively with discrete variables such as single photons and photon pairs The renaissance of continuous variables came with European research consortia such as ACQUIRE Advanced Coherent Quantum Information Research in the late 1990s and QUICOV Quantum Information with Continuous Variables from 2000 Co2003 The encouraging research results of QUICOV and the new conference series CVQIP Continuous Variable Quantum Information Processing triggered the idea for this book This book presents the state of the art of quantum information with continuous quantum variables The individual chapters discuss results achieved in QUICOV and presented at the first five CVQIP conferences from 2002 Co2006 Many world leading scientists working on continuous variables outside Europe also contribute to the book

Quantum Computation and Quantum Information Michael A. Nielsen, Isaac L. Chuang, 2010-12-09 One of the most cited books in physics of all time Quantum Computation and Quantum Information remains the best textbook in this exciting field of science This 10th anniversary edition includes an introduction from the authors setting the work in context This comprehensive textbook describes such remarkable effects as fast quantum

algorithms quantum teleportation quantum cryptography and quantum error correction Quantum mechanics and computer science are introduced before moving on to describe what a quantum computer is how it can be used to solve problems faster than classical computers and its real world implementation It concludes with an in depth treatment of quantum information Containing a wealth of figures and exercises this well known textbook is ideal for courses on the subject and will interest beginning graduate students and researchers in physics computer science mathematics and electrical engineering

Quantum Computing National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Intelligence Community Studies Board, Computer Science and Telecommunications Board, Committee on Technical Assessment of the Feasibility and Implications of Quantum Computing, 2019-03-27 Quantum mechanics the subfield of physics that describes the behavior of very small quantum particles provides the basis for a new paradigm of computing First proposed in the 1980s as a way to improve computational modeling of quantum systems the field of quantum computing has recently garnered significant attention due to progress in building small scale devices However significant technical advances will be required before a large scale practical quantum computer can be achieved Quantum Computing Progress and Prospects provides an introduction to the field including the unique characteristics and constraints of the technology and assesses the feasibility and implications of creating a functional quantum computer capable of addressing real world problems This report considers hardware and software requirements quantum algorithms drivers of advances in quantum computing and quantum devices benchmarks associated with relevant use cases the time and resources required and how to assess the probability of success

Introduction to Quantum Information Science Vlatko Vedral, 2006-09-28 In addition to treating quantum communication entanglement and algorithms this book also addresses a number of miscellaneous topics such as Maxwell's demon Landauer's erasure the Bekenstein bound and Caratheodory's treatment of the Second law of thermodynamics

Quantum Information with Continuous Variables S.L. Braunstein, A.K. Pati, 2012-12-06 Quantum information may sound like science fiction but is in fact an active and extremely promising area of research with a big dream to build a quantum computer capable of solving problems that a classical computer could not even begin to handle Research in quantum information science is now at an advanced enough stage for this dream to be credible and well worth pursuing It is at the same time too early to predict how quantum computers will be built and what potential technologies will eventually strike gold in their ability to manipulate and process quantum information One direction that has reaped many successes in quantum information processing relies on continuous variables This area is bustling with theoretical and experimental achievements from continuous variable teleportation to in principle demonstrations of universal computation and efficient error correction Now the time has come to compile some of the major results into one volume In this book the leading researchers of the field present up to date developments of continuous variable quantum information This book is organized to suit many reader levels with introductions to every topic and in depth discussions of theoretical and experimental results

Quantum Information Science Book Review: Unveiling the Power of Words

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