Call for Chapters: Applied Quantum Theory in Information Sciences

Editors

Editorial Advisory Board Members:

Olaf Cames
University of Liverpool
Management School, UK
MSc in IT with distinction
Doctorate in Business Administration

Meghann L. Drury-Grogan
Fordham University
Gabelli School of Business, USA
PhD, MA, HDip. B.S.

Call for Chapters Important Dates

May 15, 2018: 1st Proposal Submission Deadline
May 31, 2018: 2nd Proposal Submission Deadline
July 15, 2018: Notification of Acceptance
August 31, 2018: Full Chapter Submission
October 15, 2018: Review Results Returned
November 15, 2018: Final Acceptance Notification
December 6, 2018: Final Chapter Submission

Introduction

A review of the last 100 years shows a paradigm change has occurred in moving towards an understanding of reality as chaos, from chaos to complexity and from complexity towards new models that demonstrate realities of the actual world. This practitioner-focused publication demonstrates a modern paradigm change towards consideration of unpredictable situations of uncertainty, acceptance of general conditions dominated by instability, and an increased awareness of the non-sequential, non-linearity resulting in the new scientific paradigm, defined as quantum-like formal descriptions that substitute the Markov Boolean logic laws in different contexts, by different practitioners, different researchers, and in different situations. This leads to the development of new and simpler power laws. This general applicability of the quantum paradigm is represented in both quantum computing as well as in social sciences and life sciences.

Objective

This book will aim to provide relevant theoretical and philosophical underpinning of the move away from the 400-year-old Newton science language and understanding and is written for professionals and researchers who want to improve their new quantum-like understanding and utilize the better matching quantum methodology in practice. This theoretical and philosophical positioning does result in a methodological approach aimed to transition observables into measurable categories, convert the observed empirical into numeric quantification utilizing quantum

mathematics. This research approach is bound to research topics and required to be embedded in accordance to their context. The goal is to apply these theoretical and philosophical underlying principles to build a new generation of decision support systems based on quantum methodologies and exemplified in a variety of experimental setups: the chapters of this publication.

Target Audience

The target audience of this book will be practitioner and researcher working in usage scenarios for planetary scoped augmented intelligence decision support systems in various disciplines, e.g. information and communication sciences, organizational sciences, administrative sciences and management, sociology, computer science, information technology, empirical research methodology, decision sciences, prediction algorithms, biology, neurobiology, psychopathology and quantum-like modelled frameworks. Moreover, the book will provide insights and support executives with feasibility studies of the technological underpinnings considering quantum computing simulation on cloud infrastructure, virtual identities, language modelling and Bigdata Analytics and development of Quantum computing algorithms that can be applied to systems and subsystem in mixed states to extract complete knowledge via application of quantum entanglement, principles of superposition and entanglement.

Recommended Topics

- The paradigm change: Quantum Modelling In Social Sciences
- Quantum empirical research methodologies
- Empirical quantum-like mathematical formulism
- Substitution of empirical inquiries obeying the law of total probability with inquiries obeying the law of doubly stochastic
- Tangible Quantum Modelling in Organizational Sciences
- Decision science utilizing quantum-like formulations
- Quantum models of decision making in Information Sciences
- Applied Quantum Information Sciences
- Challenges, techniques and technologies
- Quantum logic and application of corresponding quantum-like technologies
- Quantum Computing Simulation Infrastructure (QCSI)
- Bigdata technologies
- Information Technologies
- Quantum like prediction analytics
- Quantum Computing prediction algorithms
- Quantum-like modelled frameworks
- Quantum empirical research methodology
- Quantum Neurobiology
- Quantum Psychopathology
- Quantum Biology
- Quantum Engineering
- Quantum Economics
- Business Ecosystems
- Public and Open Big Data
- Decision Making
- Industry-specific decision science or project management, e.g. in Healthcare, Banking Industry
- Social Networking Services
- Visualization Analytics
- Security and Privacy Issues
- Processing and Management
- Risk Management
- Organizational Change
- Organizational Change Leadership
- Organizational Change Management
- Project Management and Teams
- Leadership by augmented intelligence

Submission Procedure

Researchers and practitioners are invited to submit on or before **May 31, 2018**, a chapter proposal of 1,000 to 2,000 words clearly explaining the mission and concerns of his or her proposed chapter. Authors will be notified by **July 15, 2018** about the status of their proposals and sent chapter guidelines. Full chapters are expected to be submitted by **August 31, 2018**, and all interested authors must consult the guidelines for manuscript submissions at http://www.igi-global.com/publish/contributor-resources/before-you-write/ prior to submission. All submitted chapters will be reviewed on a double-blind review basis. Contributors may also be requested to serve as reviewers for this project.

Note: There are no submission or acceptance fees for manuscripts submitted to this book publication, Applied Quantum Theory in Information Sciences. All manuscripts are accepted based on a double-blind peer review editorial process.

All proposals should be submitted through the E-Editorial DiscoveryTM online submission manager.

Publisher

This book is scheduled to be published by IGI Global (formerly Idea Group Inc.), an international academic publisher of the “Information Science Reference” (formerly Idea Group Reference), “Medical Information Science Reference,” “Business Science Reference,” and “Engineering Science Reference” imprints. IGI Global specializes in publishing reference books, scholarly journals, and electronic databases featuring academic research on a variety of innovative topic areas including, but not limited to, education, social science, medicine and healthcare, business and management, information science and technology, engineering, public administration, library and information science, media and communication studies, and environmental science. For additional information regarding the publisher, please visit www.igi-global.com. This publication is anticipated to be released in 2018.

Inquiries

Olaf Cames,
MSc in IT with distinction
Doctorate in Business Administration
University of Liverpool, UK
Management School
Chatham Street
L69 72H

Editor's Contact Information
researcher@action-science.org
olaf.cames@online.liverpool.ac.uk

Propose a chapter for this book