

# SECURE GROUP COMMUNICATIONS Over Data Networks

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**Xukai Zou, Byrav Ramamurthy, Spyros  
S. Magliveras**

## **Secure Group Communications Over Data Networks:**

*Secure Group Communications Over Data Networks* Xukai Zou,Byrav Ramamurthy,Spyros S. Magliveras,2004-10-21 The ubiquitous nature of the Internet is enabling a new generation of pUcations to support collaborative work among geographically distant users Security in such an environment is of utmost importance to safeguard the pri vacy of the communication and to ensure the integrity of the applications Secure group communications SGC refers to a scenario in which a group of participants can receive and send messages to group members in a way that outsiders are unable to glean any information even when they are able to intercept the messages SGC is becoming extremely important for researchers and practitioners because many applications that require SGC are now widely used such as teleconferencing tele medicine real time information services distributed interactive simulations collaborative work grid computing and the deployment of VPN Virtual Private Networks Even though considerable research accomplishments have been achieved in SGC few books exist on this very important topic The purpose of this book is to provide a comprehensive survey of principles and state of the art techniques for secure group communications over data net works The book is targeted towards practitioners researchers and students in the fields of networking security and software applications development The book consists of 7 chapters which are listed and described as follows

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Furht, Edin Muharemagic, Daniel Socek, 2006-10-03 Multimedia Encryption and Watermarking presents a comprehensive survey of contemporary multimedia encryption and watermarking techniques which enable a secure exchange of multimedia intellectual property Part I Digital Rights Management DRM for Multimedia introduces DRM concepts and models for multimedia content protection and presents the key players Part II Multimedia Cryptography provides an overview of modern cryptography with the focus on modern image video speech and audio encryption techniques This book also provides an advanced concept of visual and audio sharing techniques Part III Digital Watermarking introduces the concept of watermarking for multimedia classifies watermarking applications and evaluates various multimedia watermarking concepts and techniques including digital watermarking techniques for binary images Multimedia Encryption and Watermarking is designed for researchers and practitioners as well as scientists and engineers who design and develop systems for the protection of digital multimedia content This volume is also suitable as a textbook for graduate courses on multimedia security      **Information and Communication Technology** Ismail Khalil, Erich Neuhold, A Min Tjoa, Li Da Xu, Ilsun

You, 2015-09-25 This book constitutes the refereed proceedings of the Third IFIP TC 5 8 International Conference on Information and Communication Technology ICT EurAsia 2015 with the collocation of AsiaARES 2015 as a special track on Availability Reliability and Security and the 9th IFIP WG 8 9 Working Conference on Research and Practical Issues of Enterprise Information Systems CONFENIS 2015 held as part of the 23rd IFIP World Computer Congress WCC 2015 in Daejeon Korea in October 2015 The 35 revised full papers presented were carefully reviewed and selected from 84 submissions The papers have been organized in the following topical sections networks and systems architecture teaching and education authentication and profiling data management and information advertizing applied modeling and simulation network security dependable systems and applications multimedia security cryptography big data and text mining and social impact of EIS and visualization      **Computational and Information Science** Jun Zhang, Ji-Huan He, Yuxi Fu, 2005-01-18

The 2004 International Symposium on Computational and Information Sciences CIS 2004 aimed at bringing researchers in

the area of computational and formation sciences together to exchange new ideas and to explore new ground The goal of the conference was to push the application of modern computing technologies to science engineering and information technologies to a new level of sophistication and understanding

The initial idea to organize such a conference with a focus on computation and applications was originated by Dr Jun Zhang during his visit to China in August 2003 in consultation with a few friends including Dr Jing Liu at the Chinese Academy of Sciences Dr Jun Hai Yong at Tsinghua University Dr Geng Yang at Nanjing University of Posts and Communications and a few others After several discussions with Dr Ji Huan He it was decided that Donghua University would host CIS 2004 CIS 2004 attempted to distinguish itself from other conferences in its phasis on participation rather than publication A submitted paper was only reviewed with the explicit understanding that if accepted at least one of the authors would attend and present the paper at the conference It is our lief that attending conferences is an important part of one s academic career through which academic networks can be built that may bene t one s academic life in the long run We also made every e ort to support graduate students in attending CIS 2004 In addition to set reduced registration fees for full time graduate students we awarded up to three prizes for to the Best Student Papers at CIS 2004 Students whose papers were selected for awards were given cash prizes plus a waiver of registration fees

**Computational And Information Science** Ji-Huan He, 2004-12-03

This book constitutes the refereed proceedings of the First International Symposium on Computational and Information Science CIS 2004 held in Shanghai China in December 2004 The 190 revised papers presented were carefully reviewed and selected from 450 submissions The papers address virtually all computational and algorithmic aspects in various sciences mathematics and engineering as well as data and information engineering The papers are organized in four main parts on high performance computing and algorithms computational modeling and simulation bioinformatics and medical informatics and data engineering and information science

*Sustainable ICTs and Management Systems for Green Computing* Hu, Wen-Chen, Kaabouch, Naima, 2012-06-30 This book focuses on information technology using sustainable green computing to reduce energy and resources used Provided by publisher

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**Distributed Environments: Advancing Conceptual and Algorithmic Applications** Seet, Boon-Chong, 2009-05-31 This book is dedicated to the coverage of research issues findings and approaches to Mobile P2P computing from both conceptual and algorithmic perspectives Provided by publisher

**Computational Intelligence, Cyber Security and Computational**

**Models** G. Sai Sundara Krishnan, R. Anitha, R. S. Lekshmi, M. Senthil Kumar, Anthony Bonato, Manuel Graña, 2013-11-26 This book contains cutting edge research material presented by researchers engineers developers and practitioners from academia and industry at the International Conference on Computational Intelligence Cyber Security and Computational Models ICC3 organized by PSG College of Technology Coimbatore India during December 19 21 2013 The materials in the book include theory and applications to provide design analysis and modeling of the key areas The book will be useful

material for students researchers professionals as well academicians in understanding current research trends and findings and future scope of research in computational intelligence cyber security and computational models      **Next-Generation Internet** Byrav Ramamurthy,George N. Rouskas,Krishna Moorthy Sivalingam,2011-02-03 With ever increasing demands on capacity quality of service speed and reliability current Internet systems are under strain and under review Combining contributions from experts in the field this book captures the most recent and innovative designs architectures protocols and mechanisms that will enable researchers to successfully build the next generation Internet A broad perspective is provided with topics including innovations at the physical transmission layer in wired and wireless media as well as the support for new switching and routing paradigms at the device and sub system layer The proposed alternatives to TCP and UDP at the data transport layer for emerging environments are also covered as are the novel models and theoretical foundations proposed for understanding network complexity Finally new approaches for pricing and network economics are discussed making this ideal for students researchers and practitioners who need to know about designing constructing and operating the next generation Internet      Proceedings of the International Conference on Data Engineering and Communication

Technology Suresh Chandra Satapathy,Vikrant Bhateja,Amit Joshi,2016-08-24 This two volume book contains research work presented at the First International Conference on Data Engineering and Communication Technology ICDECT held during March 10 11 2016 at Lavasa Pune Maharashtra India The book discusses recent research technologies and applications in the field of Computer Science Electrical and Electronics Engineering The aim of the Proceedings is to provide cutting edge developments taking place in the field data engineering and communication technologies which will assist the researchers and practitioners from both academia as well as industry to advance their field of study      **Modern Optimization Methods**

**for Decision Making Under Risk and Uncertainty** Alexei A. Gaivoronski,Pavlo S. Knopov,Volodymyr A. Zaslavskyi,2023-10-06 The book comprises original articles on topical issues of risk theory rational decision making statistical decisions and control of stochastic systems The articles are the outcome of a series international projects involving the leading scholars in the field of modern stochastic optimization and decision making The structure of stochastic optimization solvers is described The solvers in general implement stochastic quasi gradient methods for optimization and identification of complex nonlinear models These models constitute an important methodology for finding optimal decisions under risk and uncertainty While a large part of current approaches towards optimization under uncertainty stems from linear programming LP and often results in large LPs of special structure stochastic quasi gradient methods confront nonlinearities directly without need of linearization This makes them an appropriate tool for solving complex nonlinear problems concurrent optimization and simulation models and equilibrium situations of different types for instance Nash or Stackelberg equilibrium situations The solver finds the equilibrium solution when the optimization model describes the system with several actors The solver is parallelizable performing several simulation threads in parallel It is capable of solving stochastic optimization

problems finding stochastic Nash equilibria and of composite stochastic bilevel problems where each level may require the solution of stochastic optimization problem or finding Nash equilibrium Several complex examples with applications to water resources management energy markets pricing of services on social networks are provided In the case of power system regulator makes decision on the final expansion plan considering the strategic behavior of regulated companies and coordinating the interests of different economic entities Such a plan can be an equilibrium a planned decision where a company cannot increase its expected gain unilaterally      Proceedings of the Multi-Conference 2011 Himanshu B. Soni, Apurva Shah, 2011-06-06 The International Conference on Signals Systems and Automation ICSSA 2011 aims to spread awareness in the research and academic community regarding cutting edge technological advancements revolutionizing the world The main emphasis of this conference is on dissemination of information experience and research results on the current topics of interest through in depth discussions and participation of researchers from all over the world The objective is to provide a platform to scientists research scholars and industrialists for interacting and exchanging ideas in a number of research areas This will facilitate communication among researchers in different fields of Electronics and Communication Engineering The International Conference on Intelligent System and Data Processing ICISD 2011 is organized to address various issues that will foster the creation of intelligent solutions in the future The primary goal of the conference is to bring together worldwide leading researchers developers practitioners and educators interested in advancing the state of the art in computational intelligence and data processing for exchanging knowledge that encompasses a broad range of disciplines among various distinct communities Another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working in India and abroad      **Location- and Context-Awareness** Mike Hazas, John Krumm, Thomas Strang, 2006-05-18 This book constitutes the refereed proceedings of the Second International Workshop on Location and Context Awareness LoCA 2006 held in Dublin Ireland in May 2006 The 18 revised full papers presented were carefully selected during two rounds of reviewing and improvement from 74 submissions The papers are organized in topical sections on location sensing mapping privacy and access context sensing social context representation and programming      **Situational Awareness in Computer Network Defense: Principles, Methods and Applications** Onwubiko, Cyril, Owens, Thomas, 2012-01-31 This book provides academia and organizations insights into practical and applied solutions frameworks technologies and implementations for situational awareness in computer networks Provided by publisher      *Encyclopedia of Cryptography and Security* Henk C.A. van Tilborg, Sushil Jajodia, 2011-09-06 This comprehensive encyclopedia provides easy access to information on all aspects of cryptography and security The work is intended for students researchers and practitioners who need a quick and authoritative reference to areas like data protection network security operating systems security and more



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