

ISBN 978-1-4939-9738-9
ISBN 978-1-4939-9739-6
ISBN 978-1-4939-9740-2
ISBN 978-1-4939-9741-9

Optical and Digital Techniques for Information Security

Edmund J. Snodgrass
Editor

 Springer

Optical And Digital Techniques For Information Security

**John J. Healy, M. Alper Kutay, Haldun M.
Ozaktas, John T. Sheridan**



Optical And Digital Techniques For Information Security:

Optical and Digital Techniques for Information Security Bahram Javidi, 2005-06-28 There are wide ranging implications in information security beyond national defense Securing our information has implications for virtually all aspects of our lives including protecting the privacy of our financial transactions and medical records facilitating all operations of government maintaining the integrity of national borders securing important facilities ensuring the safety of our food and commercial products protecting the safety of our aviation system even safeguarding the integrity of our very identity against theft Information security is a vital element in all of these activities particularly as information collection and distribution become ever more connected through electronic information delivery systems and commerce This book encompasses results of research investigation and technologies that can be used to secure protect verify and authenticate objects and information from theft counterfeiting and manipulation by unauthorized persons and agencies The book has drawn on the diverse expertise in optical sciences and engineering digital image processing imaging systems information processing mathematical algorithms quantum optics computer based information systems sensors detectors and biometrics to report novel technologies that can be applied to information security issues The book is unique because it has diverse contributions from the field of optics which is a new emerging technology for security and digital techniques that are very accessible and can be interfaced with optics to produce highly effective security systems

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Bahram Javidi, 2008-11-01 There are wide ranging implications in information security beyond national defense Securing our information has implications for virtually all aspects of our lives including protecting the privacy of our financial transactions and medical records facilitating all operations of government maintaining the integrity of national borders securing important facilities ensuring the safety of our food and commercial products protecting the safety of our aviation system even safeguarding the integrity of our very identity against theft Information security is a vital element in all of these activities particularly as information collection and distribution become ever more connected through electronic information delivery systems and commerce This book encompasses results of research investigation and technologies that can be used to secure protect verify and authenticate objects and information from theft counterfeiting and manipulation by unauthorized persons and agencies The book has drawn on the diverse expertise in optical sciences and engineering digital image processing imaging systems information processing mathematical algorithms quantum optics computer based information systems sensors detectors and biometrics to report novel technologies that can be applied to information security issues The book is unique because it has diverse contributions from the field of optics which is a new emerging technology for security and digital techniques that are very accessible and can be interfaced with optics to produce highly effective security systems

Advances in Speckle Metrology and Related Techniques Guillermo H. Kaufmann, 2011-01-25 Speckle metrology includes various optical techniques that are based on the speckle fields generated by reflection from a rough surface or by

transmission through a rough diffuser These techniques have proven to be very useful in testing different materials in a non destructive way They have changed dramatically during the last years due to the development of modern optical components with faster and more powerful digital computers and novel data processing approaches This most up to date overview of the topic describes new techniques developed in the field of speckle metrology over the last decade as well as applications to experimental mechanics material science optical testing and fringe analysis

Linear Canonical Transforms John J. Healy, M. Alper Kutay, Haldun M. Ozaktas, John T. Sheridan, 2015-11-26 This book provides a clear and accessible introduction to the essential mathematical foundations of linear canonical transforms from a signals and systems perspective Substantial attention is devoted to how these transforms relate to optical systems and wave propagation There is extensive coverage of sampling theory and fast algorithms for numerically approximating the family of transforms Chapters on topics ranging from digital holography to speckle metrology provide a window on the wide range of applications This volume will serve as a reference for researchers in the fields of image and signal processing wave propagation optical information processing and holography optical system design and modeling and quantum optics It will be of use to graduate students in physics and engineering as well as for scientists in other areas seeking to learn more about this important yet relatively unfamiliar class of integral transformations

Proceedings of International Conference on Artificial Intelligence and Applications Poonam Bansal, Meena Tushir, Valentina Emilia Balas, Rajeev Srivastava, 2020-07-01 This book gathers high quality papers presented at the International Conference on Artificial Intelligence and Applications ICAIA 2020 held at Maharaja Surajmal Institute of Technology New Delhi India on 6 7 February 2020 The book covers areas such as artificial neural networks fuzzy systems computational optimization technologies and machine learning

ICT: Applications and Social Interfaces Amit Joshi, Mufti Mahmud, Roshan G. Ragel, S. Kartik, 2024-04-27 This book contains best selected research papers presented at ICTCS 2023 Eighth International Conference on Information and Communication Technology for Competitive Strategies The conference will be held in Jaipur India during 8 9 December 2023 The book covers state of the art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications This book contains papers mainly focused on ICT for computation algorithms and data analytics and IT security The work is presented in five volumes

Nanophotonic Information Physics Makoto Naruse, 2013-12-12 This book provides a new direction in the field of nano optics and nanophotonics from information and computing related sciences and technology Entitled by Information Physics and Computing in Nanoscale Photonics and Materials IPCN in short the book aims to bring together recent progresses in the intersection of nano scale photonics information and enabling technologies The topic will include 1 an overview of information physics in nanophotonics 2 DNA self assembled nanophotonic systems 3 Functional molecular sensing 4 Smart fold computing an architecture for nanophotonics 5 semiconductor nanowire and its photonic applications 6 single photoelectron manipulation in imaging sensors 6 hierarchical nanophotonic systems 8 photonic neuromorphic

computing and 9 SAT solver and decision making based on nanophotonics *Computer Networks & Communications (NetCom)* Nabendu Chaki,Natarajan Meghanathan,Dhinaharan Nagamalai,2013-02-26 Computer Networks Communications NetCom is the proceedings from the Fourth International Conference on Networks Communications This book covers theory methodology and applications of computer networks network protocols and wireless networks data communication technologies and network security The proceedings will feature peer reviewed papers that illustrate research results projects surveys and industrial experiences that describe significant advances in the diverse areas of computer networks communications **Frontiers in Optics and Photonics** Federico Capasso,Dennis Couwenberg,2021-06-08 This book provides a cutting edge research overview on the latest developments in the field of Optics and Photonics All chapters are authored by the pioneers in their field and will cover the developments in Quantum Photonics Optical properties of 2D Materials Optical Sensors Organic Opto electronics Nanophotonics Metamaterials Plasmonics Quantum Cascade lasers LEDs Biophotonics and biomedical photonics and spectroscopy *The Handbook of Photonics* Mool C. Gupta,John Ballato,2018-10-03 Reflecting changes in the field in the ten years since the publication of the first edition The Handbook of Photonics Second Edition explores recent advances that have affected this technology In this new updated second edition editor Mool Gupta is joined by John Ballato strengthening the handbook with their combined knowledge and the continued contributions of world class researchers New in the Second Edition Information on optical fiber technology and the economic impact of photonics Coverage of emerging technologies in nanotechnology Sections on optical amplifiers and polymeric optical materials The book covers photonics materials devices and systems respectively An introductory chapter new to this edition provides an overview of photonics technology innovation and economic development Resting firmly on the foundation set by the first edition this new edition continues to serve as a source for introductory material and a collection of published data for research and training in this field making it the reference of first resort **2022 Applied Mathematics and Statistics - Editor's Pick** Charles K. Chui,Eric Chung,Jianfeng Cai,Raluca Eftimie,Hong-Kun Xu,Daniel Potts,Young Shin Aaron Kim,Axel Hutt,2023-04-06 Universal Threats in Expert Applications and Solutions Vijay Singh Rathore,Joao Manuel R. S. Tavares,B. Surendiran,Anil Yadav,2024-08-03 This book presents high quality peer reviewed papers from 3rd International Conference on Universal Threats in Expert Applications and Solutions UNI TEAS 2024 jointly being organized by IES University Bhopal and Shree KKarni Universe College Jaipur in association with CSI Jaipur Chapter and Jaipur ACM Professional Chapter during January 6 9 2024 The book is a collection of innovative ideas from researchers scientists academicians industry professionals and students The book covers a variety of topics such as expert applications and artificial intelligence machine learning advance web technologies such as IoT big data cloud computing in expert applications information and cyber security threats and solutions multimedia applications in forensics security and intelligence advancements in app development management practices for expert applications and social and ethical aspects in expert

applications through applied sciences Proceedings of the 2nd International Conference on Emerging Technologies and Intelligent Systems Mohammed A. Al-Sharafi, Mostafa Al-Emran, Mohammed Naji Al-Kabi, Khaled Shaalan, 2023-03-12 This book sheds light on the recent research directions in intelligent systems and their applications It involves two main themes including management information systems and advances in information security and networking The discussion of the most recent designs advancements and modifications of intelligent systems as well as their applications is a key component of the chapters contributed to the aforementioned subjects Information Optics American Institute of Physics, 2006-11 This fifth edition of the Workshop on Information Optics WIO was mainly focused on the latest advances in optics and information theory and applications This volume contains peer reviewed papers that cover 3D imaging image processing signal processing time frequency representations super resolution optical sensors and wireless sensors **Digital Multimedia: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2017-09-13 Contemporary society resides in an age of ubiquitous technology With the consistent creation and wide availability of multimedia content it has become imperative to remain updated on the latest trends and applications in this field Digital Multimedia Concepts Methodologies Tools and Applications is an innovative source of scholarly content on the latest trends perspectives techniques and implementations of multimedia technologies Including a comprehensive range of topics such as interactive media mobile technology and data management this multi volume book is an ideal reference source for engineers professionals students academics and researchers seeking emerging information on digital multimedia **Parallel and Distributed Computing: Applications and Technologies** Kim-Meow Liew, Hong Shen, Simon See, Wentong Cai, Pingzhi Fan, Susumu Horiguchi, 2004-12-07 The 2004 International Conference on Parallel and Distributed Computing Applications and Technologies PDCAT 2004 was the fifth annual conference and was held at the Marina Mandarin Hotel Singapore on December 8 10 2004 Since the inaugural PDCAT held in Hong Kong in 2000 the conference has come a major forum for scientists engineers and practitioners throughout the world to present the latest research results ideas developments techniques and applications in all areas of parallel and distributed computing The technical program was comprehensive and featured keynote speeches technical paper presentations and exhibitions showcased by industry vendors The technical program committee was overwhelmed with submissions of papers for presentation from countries worldwide We received 242 papers and after viewing them based on stringent selection criteria we accepted 173 papers The papers in the proceedings focus on parallel and distributed computing viewed from the three perspectives of networking and architectures software systems and technologies and algorithms and applications We acknowledge the great contribution from all of our local and international committee members and reviewers who devoted their time in the review process and provided valuable feedback for the authors PDCAT 2004 could never have been successful without the support and assistance of several institutions and many people We sincerely appreciate the support from the National Grid Office and IEEE Singapore for

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handbook is for both secure multimedia distribution researchers and also decision makers in obtaining a greater understanding of the concepts issues problems trends challenges and opportunities related to secure multimedia distribution Provided by publisher **Communication and Computing Systems** B.M.K. Prasad,Krishna Kant Singh,Neelam

Ruhil,Karan Singh,Richard O'Kennedy,2017-02-15 This book is a collection of accepted papers that were presented at the International Conference on Communication and Computing Systems ICCCS 2016 Dronacharya College of Engineering Gurgaon September 9 11 2016 The purpose of the conference was to provide a platform for interaction between scientists from industry academia and other areas of society to discuss the current advancements in the field of communication and computing systems The papers submitted to the proceedings were peer reviewed by 2 3 expert referees This volume contains 5 main subject areas 1 Signal and Image Processing 2 Communication Computer Networks 3 Soft Computing Intelligent System Machine Vision and Artificial Neural Network 4 VLSI Embedded System 5 Software Engineering and Emerging Technologies *Computer Vision and Information Technology* K. V. Kale,S. C. Mehrotra,R. R. Manza,2010 Spread in 133

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