

Thierry Fournel
Bahram Javidi *Editors*

Information Optics and Photonics

Algorithms, Systems, and Applications



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Information Optics And Photonics Algorithms Systems And Applications

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Hrishikesh, De, Sourav, Klepac, Goran**



Information Optics And Photonics Algorithms Systems And Applications:

Information Optics and Photonics Thierry Fournel, Bahram Javidi, 2010-11-01 This book will address the advances applications research results and emerging areas of optics photonics computational approaches nano photonics bio photonics with applications in information systems The objectives are to bring together novel approaches analysis models and technologies that enhance sensing measurement processing interpretation and visualization of information The book will concentrate on new approaches to information systems including integration of computational algorithms bio inspired models photonics technologies information security bio photonics and nano photonics Applications include bio photonics digitally enhanced sensing and imaging systems multi dimensional optical imaging and image processing bio inspired imaging 3D visualization 3D displays imaging on nano scale quantum optics super resolution imaging photonics for biological applications microscopy information optics and holographic information systems

Information Optics and Photonics Thierry Fournel, Bahram Javidi, 2011-07-21 This book will address the advances applications research results and emerging areas of optics photonics computational approaches nano photonics bio photonics with applications in information systems The objectives are to bring together novel approaches analysis models and technologies that enhance sensing measurement processing interpretation and visualization of information The book will concentrate on new approaches to information systems including integration of computational algorithms bio inspired models photonics technologies information security bio photonics and nano photonics Applications include bio photonics digitally enhanced sensing and imaging systems multi dimensional optical imaging and image processing bio inspired imaging 3D visualization 3D displays imaging on nano scale quantum optics super resolution imaging photonics for biological applications microscopy information optics and holographic information systems

Computational Photonics Marek S. Wartak, 2013-01-10 A comprehensive manual on the efficient modeling and analysis of photonic devices for graduate students and researchers in engineering and physics

Wireless Algorithms, Systems, and Applications Edoardo S. Biagioni, Yao Zheng, Siyao Cheng, 2019-06-20 This book constitutes the proceedings of the 14th International Conference on Wireless Algorithms Systems and Applications WASA 2019 held in Honolulu HI USA in June 2019 The 43 full and 11 short papers presented were carefully reviewed and selected from 143 submissions The papers deal with new ideas and recent advances in computer systems wireless networks distributed applications and advanced algorithms that are pushing forward the new technologies for better information sharing computer communication and universal connected devices in various environments especially in wireless networks

Multisensor Data Fusion and Machine Learning for Environmental Remote Sensing Ni-Bin Chang, Kaixu Bai, 2018-02-21 In the last few years the scientific community has realized that obtaining a better understanding of interactions between natural systems and the man made environment across different scales demands more research efforts in remote sensing An integrated Earth system observatory that merges surface based air borne space borne and even underground sensors with

comprehensive and predictive capabilities indicates promise for revolutionizing the study of global water energy and carbon cycles as well as land use and land cover changes The aim of this book is to present a suite of relevant concepts tools and methods of integrated multisensor data fusion and machine learning technologies to promote environmental sustainability The process of machine learning for intelligent feature extraction consists of regular deep and fast learning algorithms The niche for integrating data fusion and machine learning for remote sensing rests upon the creation of a new scientific architecture in remote sensing science that is designed to support numerical as well as symbolic feature extraction managed by several cognitively oriented machine learning tasks at finer scales By grouping a suite of satellites with similar nature in platform design data merging may come to help for cloudy pixel reconstruction over the space domain or concatenation of time series images over the time domain or even both simultaneously Organized in 5 parts from Fundamental Principles of Remote Sensing Feature Extraction for Remote Sensing Image and Data Fusion for Remote Sensing Integrated Data Merging Data Reconstruction Data Fusion and Machine Learning to Remote Sensing for Environmental Decision Analysis the book will be a useful reference for graduate students academic scholars and working professionals who are involved in the study of Earth systems and the environment for a sustainable future The new knowledge in this book can be applied successfully in many areas of environmental science and engineering

Photonics Abdul Al-Azzawi, 2017-12-19 Since the invention of the laser our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology An explosion of new materials devices and applications makes it more important than ever to stay current with the latest advances Surveying the field from fundamental concepts to state of the art developments *Photonics Principles and Practices* builds a comprehensive understanding of the theoretical and practical aspects of photonics from the basics of light waves to fiber optics and lasers Providing self contained coverage and using a consistent approach the author leads you step by step through each topic Each skillfully crafted chapter first explores the theoretical concepts of each topic and then demonstrates how these principles apply to real world applications by guiding you through experimental cases illuminated with numerous illustrations Coverage is divided into six broad sections systematically working through light optics waves and diffraction optical fibers fiber optics testing and laboratory safety A complete glossary useful appendices and a thorough list of references round out the presentation The text also includes a 16 page insert containing 28 full color illustrations Containing several topics presented for the first time in book form *Photonics Principles and Practices* is simply the most modern comprehensive and hands on text in the field

Design, Analysis and Applications of Renewable Energy Systems
Ahmad Taher Azar, Nashwa Ahmad Kamal, 2021-09-09 *Design Analysis and Applications of Renewable Energy Systems* covers recent advancements in the study of renewable energy control systems by bringing together diverse scientific breakthroughs on the modeling control and optimization of renewable energy systems as conveyed by leading energy systems engineering researchers The book focuses on present novel solutions for many problems in the field covering modeling control theorems

and the optimization techniques that will help solve many scientific issues for researchers Multidisciplinary applications are also discussed along with their fundamentals modeling analysis design realization and experimental results This book fills the gaps between different interdisciplinary applications ranging from mathematical concepts modeling and analysis up to the realization and experimental work Presents some of the latest innovative approaches to renewable energy systems from the point of view of dynamic modeling system analysis optimization control and circuit design Focuses on advances related to optimization techniques for renewable energy and forecasting using machine learning methods Includes new circuits and systems helping researchers solve many nonlinear problems The Computational Evolution of Cognitive Architectures

Iuliia Kotseruba, John K. Tsotsos, 2025-06-23 What is the human mind and how does it work These questions have occupied humanity since antiquity but have only recently received rigorous scientific investigation Cognitive architectures are complex software programs whose goal is to approach human like behavior on a wide variety of tasks This is accomplished by employing human like or at least human plausible mechanisms within an integrated framework that is claimed representative of human cognitive perceptual and movement capabilities By examining how close their behavior is to human they help us understand how the human mind and brain work They contribute to our understanding as computational models that can be tested and whose details in turn provide insights on new aspects of the human brain and mind This field of cognitive architectures emerged at the intersection of artificial intelligence and cognitive science and in less than fifty years has spawned hundreds of projects In The Computational Evolution of Cognitive Architectures the authors trace the evolution of cognitive architectures their abilities and future prospects from their early logic based beginnings to their recent melding of classic methodologies with deep learning concepts Analyzing over 3000 publications on more than eighty cognitive architectures and hundreds more surveys research papers and opinion pieces spanning philosophy cognitive science computer science and robotics the authors aggregate their findings into broad themes such as common components of the architectures their organization interaction and relation to human cognitive abilities They discuss both theoretical elements of cognitive architectures and their performance before finally considering the future of cognitive architectures and their challenges **Advances in Parallel Computing Algorithms, Tools and Paradigms** D.J. Hemant, T.N. Nguyen, J.

Indumathi, 2022-11-23 Recent developments in parallel computing for various fields of application are providing improved solutions for handling data These newer innovative ideas offer the technical support necessary to enhance intellectual decisions while also dealing more efficiently with the huge volumes of data currently involved This book presents the proceedings of ICAPTA 2022 the International Conference on Advances in Parallel Computing Technologies and Applications hosted as a virtual conference from Bangalore India on 27 and 28 January 2022 The aim of the conference was to provide a forum for the sharing of knowledge about various aspects of parallel computing in communications systems and networking including cloud and virtualization solutions management technologies and vertical application areas The conference also

provided a premier platform for scientists researchers practitioners and academicians to present and discuss their most recent innovations trends and concerns as well as the practical challenges encountered in this field More than 300 submissions were received for the conference from which the 91 full length papers presented here were accepted after review by a panel of subject experts Topics covered include parallel computing in communication machine learning intelligence for parallel computing and parallel computing for software services in theoretical and practical aspects Providing an overview of recent developments in the field the book will be of interest to all those whose work involves the use of parallel computing technologies

Intelligent Analysis of Multimedia Information Bhattacharyya, Siddhartha, Bhaumik, Hrishikesh, De, Sourav, Klepac, Goran, 2016-07-13 Multimedia represents information in novel and varied formats One of the most prevalent examples of continuous media is video Extracting underlying data from these videos can be an arduous task From video indexing surveillance and mining complex computational applications are required to process this data Intelligent Analysis of Multimedia Information is a pivotal reference source for the latest scholarly research on the implementation of innovative techniques to a broad spectrum of multimedia applications by presenting emerging methods in continuous media processing and manipulation This book offers a fresh perspective for students and researchers of information technology media professionals and programmers

Applied Nature-Inspired Computing: Algorithms and Case Studies Nilanjan Dey, Amira S. Ashour, Siddhartha Bhattacharyya, 2019-08-10 This book presents a cutting edge research procedure in the Nature Inspired Computing NIC domain and its connections with computational intelligence areas in real world engineering applications It introduces readers to a broad range of algorithms such as genetic algorithms particle swarm optimization the firefly algorithm flower pollination algorithm collision based optimization algorithm bat algorithm ant colony optimization and multi agent systems In turn it provides an overview of meta heuristic algorithms comparing the advantages and disadvantages of each Moreover the book provides a brief outline of the integration of nature inspired computing techniques and various computational intelligence paradigms and highlights nature inspired computing techniques in a range of applications including evolutionary robotics sports training planning assessment of water distribution systems flood simulation and forecasting traffic control gene expression analysis antenna array design and scheduling dynamic resource management

Applications of Firefly Algorithm and its Variants Nilanjan Dey, 2019-11-09 The book discusses advantages of the firefly algorithm over other well known metaheuristic algorithms in various engineering studies The book provides a brief outline of various application oriented problem solving methods like economic emission load dispatch problem designing a fully digital controlled reconfigurable switched beam nonconcentric ring array antenna image segmentation span minimization in permutation flow shop scheduling multi objective load dispatch problems image compression etc using FA and its variants It also covers the use of the firefly algorithm to select features as research has shown that the firefly algorithm generates precise and optimal results in terms of time and optimality In addition the book

also explores the potential of the firefly algorithm to provide a solution to traveling salesman problem graph coloring problem etc

Biometrics: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-08-30 Security and authentication issues are surging to the forefront of the research realm in global society As technology continues to evolve individuals are finding it easier to infiltrate various forums and facilities where they can illegally obtain information and access By implementing biometric authentications to these forums users are able to prevent attacks on their privacy and security Biometrics Concepts Methodologies Tools and Applications is a multi volume publication highlighting critical topics related to access control user identification and surveillance technologies Featuring emergent research on the issues and challenges in security and privacy various forms of user authentication biometric applications to image processing and computer vision and security applications within the field this publication is an ideal reference source for researchers engineers technology developers students and security specialists

Modeling and Applications of Optoelectronic Devices for Access Networks Chongfu Zhang, Nico de Rooij, Zichuan Yi, Guofu Zhou, Raffaele

Gravina, 2021-10-01 Topic Editor Raffaele Gravina is a founder and a co owner of company SenSysCal S R L Topic Editor Guofu Zhou is a founder and a director of Electronic Paper Display Institute of South China Normal University and science advisor of Eindhoven University of Technology All other Topic Editors declare no competing interests with regards to the Research Topic subject

Real-Time Applications of Machine Learning in Cyber-Physical Systems Easwaran, Balamurugan, Hiran, Kamal Kant, Krishnan, Sangeetha, Doshi, Ruchi, 2022-03-11 Technological advancements of recent decades have reshaped the way people socialize work learn and ultimately live The use of cyber physical systems CPS specifically have helped people lead their lives with greater control and freedom CPS domains have great societal significance providing crucial assistance in industries ranging from security to healthcare At the same time machine learning ML algorithms are known for being substantially efficient high performing and have become a real standard due to greater accessibility and now more than ever multidisciplinary applications of ML for CPS have become a necessity to help uncover constructive solutions for real world problems Real Time Applications of Machine Learning in Cyber Physical Systems provides a relevant theoretical framework and the most recent empirical findings on various real time applications of machine learning in cyber physical systems Covering topics like intrusion detection systems predictive maintenance and seizure prediction this book is an essential resource for researchers machine learning professionals independent researchers scholars scientists libraries and academicians

Wavelets In Soft Computing (Second Edition) Marc Thuillard, 2022-09-09 The comprehensive compendium furnishes a quick and efficient entry point to many multiresolution techniques and facilitates the transition from an idea into a real project It focuses on methods combining several soft computing techniques fuzzy logic neural networks genetic algorithms in a multiresolution framework Illustrated with numerous vivid examples this useful volume gives the reader the necessary theoretical background to decide which methods suit his her needs New

materials and applications for multiresolution analysis are added including notable research topics such as deep learning graphs and network analysis

Enabling Machine Learning Applications in Data Science Aboul Ella Hassanien, Ashraf Darwish, Sherine M. Abd El-Kader, Dabiah Ahmed Alboaneen, 2021-05-27 This book gathers selected high quality research papers presented at Arab Conference for Emerging Technologies 2020 organized virtually in Cairo during 21-23 June 2020. This book emphasizes the role and recent developments in the field of emerging technologies and artificial intelligence and related technologies with a special focus on sustainable development in the Arab world. The book targets high quality scientific research papers with applications including theory, practical prototypes, new ideas, case studies, and surveys which cover machine learning applications in data science.

Smart Big Data in Digital Agriculture Applications Haoyu Niu, Yangquan Chen, 2024-02-28 In the dynamic realm of digital agriculture, the integration of big data acquisition platforms has sparked both curiosity and enthusiasm among researchers and agricultural practitioners. This book embarks on a journey to explore the intersection of artificial intelligence and agriculture, focusing on small unmanned aerial vehicles (UAVs), unmanned ground vehicles (UGVs), edge AI sensors, and the profound impact they have on digital agriculture, particularly in the context of heterogeneous crops such as walnuts, pomegranates, cotton, etc. For example, lightweight sensors mounted on UAVs, including multispectral and thermal infrared cameras, serve as invaluable tools for capturing high-resolution images. Their enhanced temporal and spatial resolutions, coupled with cost-effectiveness and near real-time data acquisition, position UAVs as an optimal platform for mapping and monitoring crop variability in vast expanses. This combination of data acquisition platforms and advanced analytics generates substantial datasets, necessitating a deep understanding of fractional order thinking, which is imperative due to the inherent complexity and consequent variability within the agricultural process. Much optimism is vested in the field of artificial intelligence, such as machine learning (ML) and computer vision (CV), where the efficient utilization of big data to make it smart is of paramount importance in agricultural research. Central to this learning process lies the intricate relationship between plant physiology and optimization methods. The key to the learning process is the plant physiology and optimization method. Crafting an efficient optimization method raises three pivotal questions: 1. What represents the best approach to optimization? 2. How can we achieve a more optimal optimization? 3. Is it possible to demand more optimal machine learning exemplified by deep learning while minimizing the need for extensive labeled data for digital agriculture? This book details the foundations of the plant physiology-informed machine learning (PPIML) and the principle of tail matching (POTM) framework. It is the 9th title of the Agriculture Automation and Control book series published by Springer.

Communication and Control for Robotic Systems Jason Gu, Rajeeb Dey, Nabanita Adhikary, 2021-08-02 This book is a collection of high quality research articles. The book includes topics specific to the emerging areas of control for robotic systems, wireless communication, and development of embedded systems for robotic applications. The book integrates three important aspects of automation: namely i) communication, ii) control, and iii) embedded design for robotic applications.

This book is unique as it provides a unified framework for analysis design and deployment of the robotic applications across various engineering and non engineering disciplines including the three primary aspects mentioned above Furthermore the emerging research and development work pertaining to the deployment of intelligent nonlinear and embedded control for robotic system for non standard operating environment due to the widespread application of robotics technology for societal benefit is also a focal point of the book

Advances in Signal Transforms Jaakko Astola, 2007 Digital signal transforms are of a fundamental value in digital signal and image processing Their role is manifold Transforms selected appropriately enable substantial compressing signals and images for storage and transmission No signal recovery image reconstruction and restoration task can be efficiently solved without using digital signal transforms Transforms are successfully used for logic design and digital data encryption Fast transforms are the main tools for acceleration of computations in digital signal and image processing The volume collects in one book most recent developments in the theory and practice of the design and usage of transforms in digital signal and image processing It emerged from the series of reports published by Tampere International Centre for Signal Processing Tampere University of Technology For the volume all contributions are appropriately updated to represent the state of the art in the field and to cover the most recent developments in different aspects of the theory and applications of transforms The book consists of two parts that represent two major directions in the field development of new transforms and development of transform based signal and image processing algorithms The first part contains four chapters devoted to recent advances in transforms for image compression and switching and logic design and to new fast transforms for digital holography and tomography In the second part advanced transform based signal and image algorithms are considered signal and image local adaptive restoration methods and two complementing families of signal and image re sampling algorithms fast transform based discrete sinc interpolation and spline theory based ones

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