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Hybrid Massive MIMO Precoding in Cloud-RAN Hybrid Massive MIMO Precoding in Cloud-RAN MIMO Communications - Fundamental Theory, Propagation Channels, and Antenna Systems Millimeter-Wave Communication Systems: Network Analysis and Hybrid Precoding Design mmWave Massive MIMO Communications and Networking Security and Privacy in Cyberspace Millimeter-Wave/Sub-Terahertz Ultra-Massive MIMO Transmission Technology Millimeter-Wave (mmWave) Communications Human Centered Computing Novel Millimetre Wave Antennas for MIMO and 5G Applications Proceedings of CECNet 2022 Proceedings of Third International Conference on Sustainable Expert Systems Wireless and Satellite Systems Women in Signal Processing Frontiers in Signal Processing Editors' Choice 2022 Advanced Information Networking and Applications Communications, Signal Processing, and Systems Evolutionary Computing and Mobile Sustainable Networks Sparse Signal Processing for Massive MIMO Communications Digital Communication for Practicing Engineers Space Information Networks 5G Mobile and Wireless Communications Technology Communications and Networking Edge Analytics Proceedings of the International Conference on Internet of Things, Communication and Intelligent Technology mmWave Massive MIMO Vehicular Communications Exploration of Novel Intelligent Optimization Algorithms 5G Green Mobile Communication Networks Sparse Arrays for Radar, Sonar, and Communications Artificial Intelligence in China 5G and Beyond Emerging Technology Trends in Internet of Things and Computing Wireless Algorithms, Systems, and Applications Advances of Science and Technology Stochastic Geometry Analysis of Multi-Antenna Wireless Networks Inventive Computation and Information Technologies Millimeter-Wave Networks Handbook of Research on Emerging Designs and Applications for Microwave and Millimeter Wave Circuits Proceedings of International Conference on Communication and Computational Technologies

Hybrid Massive MIMO Precoding in Cloud-RAN

2018-11-28

this book covers the design and optimization of hybrid rf baseband precoding for massive multiple input multiple output mimo enabled cloud radio access networks rans where use cases such as millimeter wave wireless backhauling fully loaded cellular networks are of interest the suitability and practical implementation of the proposed precoding solutions for the cloud ran architecture are also discussed novel techniques are examined for rf precoding optimization in combination with nonlinear precoding at baseband and the superiority of joint rf baseband design is verified moreover the efficacy of hybrid rf baseband precoding to combat intercell interference in a multi cell environment with universal frequency reuse is investigated which is concluded to be a promising enabler for the dense deployment of base stations this book mainly targets researchers and engineers interested in the challenges optimization and implementation of massive mimo precoding in 5g cloud ran graduate students in electrical engineering and computer science interested in the application of mathematical optimization to model and solve precoding problems in massive mimo cellular systems will also be interested in this book

Hybrid Massive MIMO Precoding in Cloud-RAN

2019

multiple input multiple output mimo communication technology has become a critical enabler for high speed wireless communication systems this edited volume mimo communications fundamental theory propagation channels and antenna systems is a comprehensive resource for researchers graduate students and practicing engineers in wireless communication the volume is divided

2023-02-01

2/25

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into four parts that cover the foundations of wireless communications antenna techniques channel modeling autonomous driving and radars experts in the field have authored chapters covering various topics including capacity analysis of mimo channels antenna array design and beamforming techniques channel modeling and estimation and the applications of autonomous driving and radars this book provides a detailed and accessible introduction to the latest research and practical applications in mimo communication technology it is an essential resource for anyone interested in learning about mimo communication technology or looking to deepen their understanding of existing systems

MIMO Communications - Fundamental Theory, Propagation Channels, and Antenna Systems

2023-12-20

this book investigates the analytical framework and hybrid precoding scheme in millimeter wave networks millimeter wave communication is a frontier technology for supporting ultra high data rate transmissions in future wireless networks due to larger bandwidth and higher spectral efficiency however the involved interference characterization and increased energy consumption are two dominant limitations in millimeter wave network evolution in this monograph we develop a unified analytical framework for large scale millimeter wave communication networks which leads to abundant network design insights and guidelines under this framework we design low complexity hybrid precoding algorithms for millimeter wave systems which greatly reduce energy consumption without obvious performance degradation we would like to highlight that we develop a unified analytical framework and low complexity hybrid precoding mechanisms for millimeter wave communication networks where a variety of millimeter wave properties and hardware constraints are incorporated the developed mechanisms can provide abundant insights and

guidelines for the hybrid precoding design and analysis in millimeter wave communication networks graduate students researchers and engineers in the field of communication networks can benefit from the book

Millimeter-Wave Communication Systems: Network Analysis and Hybrid Precoding Design

2022-02-23

mmwave massive mimo a paradigm for 5g is the first book of its kind to hinge together related discussions on mmwave and massive mimo under the umbrella of 5g networks new networking scenarios are identified along with fundamental design requirements for mmwave massive mimo networks from an architectural and practical perspective working towards final deployment this book updates the research community on the current mmwave massive mimo roadmap taking into account the future emerging technologies emanating from 3gpp iee the book s editors draw on their vast experience in international research on the forefront of the mmwave massive mimo research arena and standardization this book aims to talk openly about the topic and will serve as a useful reference not only for postgraduates students to learn more on this evolving field but also as inspiration for mobile communication researchers who want to make further innovative strides in the field to mark their legacy in the 5g arena contains tutorials on the basics of mmwave and massive mimo identifies new 5g networking scenarios along with design requirements from an architectural and practical perspective details the latest updates on the evolution of the mmwave massive mimo roadmap considering future emerging technologies emanating from 3gpp iee includes contributions from leading experts in the field in modeling and prototype design for mmwave massive mimo design presents an ideal reference that not only helps postgraduate students learn more in this evolving field but also inspires mobile

communication researchers towards further innovation

mmWave Massive MIMO

2016-12-02

this proceedings constitutes the refereed proceedings of the 16th international conference on communications and networking chinacom 2021 held in november 2021 due to covid 19 pandemic the conference was held virtually the 47 full papers and 5 workshop papers presented were carefully selected from 130 submissions the papers are organized in topical sections on scheduling and transmission optimization in edge computing complex system optimization in edge computing network communication enhancement signal processing and communication optimization deep learning and vehicular communication edge computing and deep learning finite blocklength and distributed machine learning deep learning and network performance optimization edge computing and reinforcement learning

Communications and Networking

2022-04-04

this book highlights the literature and the practical aspects to understand cybersecurity and privacy in various networks and communication devices it provides details of emerging technologies on various networks by protecting the privacy and security of cyberspace this book presents state of the art advances in the field of cryptography and network security cybersecurity and privacy providing a good reference for professionals and researchers

Security and Privacy in Cyberspace

2022-08-28

the book focuses on the advanced mmwave sub terahertz ultra massive mimo wireless communications which are regarded as a promising paradigm shift in future 5g beyond and even 6g this is achieved by providing a comprehensive review of the rapidly developing field of massive mimo communication in depth discussions on the impact of extremely large scale antenna array and detailed numerical simulation results on our proposed schemes several case studies are given after introducing basic communication system components and the simulation codes are open sourced in our book which shows the reproducibility of our models and methods and provides convenience for readers such as researchers engineers and graduate students in the fields of wireless communications

Millimeter-Wave/Sub-Terahertz Ultra-Massive MIMO Transmission Technology

2023-07-25

the millimeter wave frequency band 30 300 ghz is considered a potential candidate to host very high data rate communications first used for high capacity radio links and then for broadband indoor wireless networks the interest in this frequency band has increased as it is proposed to accommodate future 5g mobile communication systems the large bandwidth available will enable a number of new uses for 5g in addition due to the large propagation attenuation this frequency band may provide some additional advantages regarding frequency reuse and communication security however a number of issues have to be addressed to make mm wave

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communications viable this book collects a number of contributions that present solutions to these challenges

Millimeter-Wave (mmWave) Communications

2020-03-25

this book constitutes thoroughly reviewed revised and selected papers from the 5th international conference on human centered computing hcc 2019 held in Čačak serbia in august 2019 the 48 full and 23 short papers presented in this volume were carefully reviewed and selected from a total of 133 submissions the papers focus on deep learning and its applications on a variety of real life problems ranging from image video analysis to human computer interaction and to logistics and supply chain management

Human Centered Computing

2020-01-20

this book presents state of the art millimetre wave antennas for next generation 5g communications the propagation losses associated with the millimetre waves and the signal blockage due to the objects present between transmitter and receiver require novel antenna topologies to address these issues various aspects of antenna design related to millimetre wave 5g communication including 28 ghz channel characteristics mmwave antenna requirements antenna design strategies for 28 ghz mimo multibeam antennas and mmwave lens antennas are highlighted apart from the general antenna requirements and study related to the 28 ghz frequency band various new metamaterial based antennas employing uniaxial or biaxial anisotropic media that enhance the antenna radiation performance are covered in detail in

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addition various new antenna systems such as wide scan antenna arrays dual polarized antennas and dual beam multibeam antennas are covered in this book the book concludes with the glimpses of the millimetre wave lens antennas and the design of very thin planar metamaterial lens for 5g massive mimo applications

Novel Millimetre Wave Antennas for MIMO and 5G Applications

2021-11-30

electronics communication and networks coexist and it is not possible to conceive of our current society without them within the next decade we will probably see the consolidation of 6g based technology accompanied by many compatible devices and fiber optic is already an advanced technology with many applications this book presents the proceedings of cecnet 2022 the 12th international conference on electronics communications and networks held as a virtual event with no face to face participation in xiamen china from 4 to 7 november 2022 cecnet is held annually and covers many interrelated groups of topics such as electronics technology communication engineering and technology wireless communications engineering and technology and computer engineering and technology this year the conference committee received 313 submissions all papers were carefully reviewed by program committee members taking into consideration the breadth and depth of research topics falling within the scope of the conference and after further discussion 79 papers were selected for presentation at the conference and for publication in this book this represents an acceptance rate of about 25 the book offers an overview of the latest research and developments in these rapidly evolving fields and will be of interest to all those working with electronics communication and networks

Proceedings of CECNet 2022

2022-12-29

this book features high quality research papers presented at the 3rd international conference on sustainable expert systems icses 2022 held in nepal during september 9 10 2022 the book focuses on the research information related to artificial intelligence sustainability and expert systems applied in almost all the areas of industries government sectors and educational institutions worldwide the main thrust of the book is to publish the conference papers that deal with the design implementation development testing and management of intelligent and sustainable expert systems and also to provide both theoretical and practical guidelines for the deployment of these systems

Proceedings of Third International Conference on Sustainable Expert Systems

2023-02-22

this book constitutes the refereed post conference proceedings of the 12th international conference on wireless and satellite services wisats 2021 held in nanjing china in september 2020 due to covid 19 pandemic the conference was held virtually the 79 full papers were carefully reviewed and selected from 140 submissions the conference s central theme is the means of using the wireless and satellite services directly to the user for personal communications multimedia and location identification the services enabled by wisats not only cover the requirements of an ordinary citizen but also provide personal and public services for global coverage communications as the applications of internet of things

2023-02-01

9/25

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Wireless and Satellite Systems

2022-01-21

at present less than 30 of researchers worldwide are women as an estimate this number is even lower in the field of signal processing with some sources indicating it could be around 10 long standing biases and gender stereotypes are discouraging girls and women away from science related fields and stem research in particular science and gender equality are however essential to ensure sustainable development as highlighted by unesco in order to change traditional mindsets gender equality must be promoted stereotypes defeated and girls and women should be encouraged to pursue stem careers frontiers in signal processing is proud to offer this platform to promote the work of women researchers and engineers across all areas of signal processing the work presented here highlights the diversity of research performed across the entire breadth of the signal processing landscape and presents advances in theory experiment and methodology with applications to compelling problems this article collection is open for submissions across all sections of the journal and new articles will be added as they are published please note to be considered for this collection the corresponding author should be a female researcher

Women in Signal Processing

2022-12-12

this book covers the theory design and applications of computer networks distributed computing and information systems networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications heterogeneous networking supported by recent technological advances in low power wireless communications along with

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silicon integration of various functionalities such as sensing communications intelligence and actuators is emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications several of such applications have been difficult to realize because of many interconnections problems to fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks the aim of the book advanced information networking and applications is to provide the latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications

Frontiers in Signal Processing Editors' Choice 2022

2023-04-05

this book brings together papers from the 2018 international conference on communications signal processing and systems which was held in dalian china on july 14 16 2018 presenting the latest developments and discussing the interactions and links between these multidisciplinary fields the book spans topics ranging from communications signal processing and systems it is aimed at undergraduate and graduate electrical engineering computer science and mathematics students researchers and engineers from academia and industry as well as government employees

Advanced Information Networking and Applications

2022-03-30

this book mainly reflects the recent research works in evolutionary computation technologies and mobile sustainable networks with a specific focus on computational intelligence and communication technologies that widely ranges from theoretical foundations to practical applications in enhancing the sustainability of mobile networks today network sustainability has become a significant research domain in both academia and industries present across the globe also the network sustainability paradigm has generated a solution for existing optimization challenges in mobile communication networks recently the research advances in evolutionary computing technologies including swarm intelligence algorithms and other evolutionary algorithm paradigms are considered as the widely accepted descriptors for mobile sustainable networks virtualization optimization and automation to deal with the emerging impacts on mobile communication networks this book discusses about the state of the research works on developing a sustainable design and their implementation in mobile networks with the advent of evolutionary computation algorithms this book contributes varied research chapters to develop a new perspective on mobile sustainable networks

Communications, Signal Processing, and Systems

2019-05-04

offers concise practical knowledge on modern communication systems to help students transition smoothly into the workplace and beyond this book presents the most relevant concepts and technologies of today s communication systems and presents them in a concise and intuitive manner it covers advanced topics such as orthogonal frequency division multiplexing ofdm and multiple input multiple output mimo technology which are enabling technologies for modern communication systems such as wifi including the latest enhancements and lte advanced following a brief introduction to the field digital communication for practicing engineers immerses readers in the theories and technologies that engineers deal with it starts off with

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shannon theorem and information theory before moving on to basic modules of a communication system including modulation statistical detection channel coding synchronization and equalization the next part of the book discusses advanced topics such as ofdm and mimo and introduces several emerging technologies in the context of 5g cellular system radio interface the book closes by outlining several current research areas in digital communications in addition this text breaks down the subject into self contained lectures which can be read individually or as a whole focuses on the pros and cons of widely used techniques while providing references for detailed mathematical analysis follows the current technology trends including advanced topics such as ofdm and mimo touches on content this is not usually contained in textbooks such as cyclo stationary symbol timing recovery adaptive self interference canceler and tomlinson harashima precoder includes many illustrations homework problems and examples digital communication for practicing engineers is an ideal guide for graduate students and professionals in digital communication looking to understand work with and adapt to the current and future technology

Evolutionary Computing and Mobile Sustainable Networks

2022-03-21

this book constitutes the proceedings of the 4th international conference on space information networks sinc 2019 held in wuzhen china in september 2019 the 16 full and 7 short papers presented in this volume were carefully reviewed and selected from 118 submissions the papers are organized in topical sections on architecture and efficient networking mechanism theories and methods of high speed transmission

Sparse Signal Processing for Massive MIMO Communications

2019-10-01

a comprehensive overview of the 5g landscape covering technology options most likely use cases and potential system architectures

Digital Communication for Practicing Engineers

2020-02-19

this proceedings constitutes the refereed proceedings of the 17th international conference on communications and networking chinacom 2022 held in november 19 20 2022 due to covid 19 pandemic the conference was held virtually the 31 full papers presented were carefully selected from 83 submissions the papers are organized in topical sections on signal processing and communication optimization scheduling and transmission optimization network communication performance enhancement deep learning applications and optimization deep learning and network performance optimization edge computing and artificial intelligence applications

Space Information Networks

2016-06-02

this book constitutes refereed proceedings of the 26th annual international conference on advanced computing and communications adcom 2020 adcom the flagship systems conference of the accs is a major annual international meeting that draws leading scientists and researchers in computational and communications engineering from across industry and academia the proceedings

2023-02-01

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highlight the growing importance of large scale systems engineering and discuss leading edge research and trends the main theme of adcom 2020 is edge analytics the book includes novel contributions and latest developments from researchers across industry and academia who are working in security privacy and data analytics from both technological and social perspectives the book serves as a valuable reference resource for academics and researchers across the globe

5G Mobile and Wireless Communications Technology

2023-06-09

this book includes original peer reviewed research papers from the international conference on internet of things communication and intelligent technology iotcit 2022 it contains the application of communication and iot engineering in the age of intelligent technology from the standpoint of disciplinary integration combining theory and associated iot and intelligent technology algorithms the topics cover the full range of iot solutions from iot to network security and focus on many forms of communication such as next generation 6g mobile communication d2d and m2m communication additionally it examines intelligent technology with a focus on information system modeling and simulation it also explores cloud computing pervasive and mobile computing distributed computing high performance computing and ubiquitous computing

Communications and Networking

2022-04-03

this book proposes promising mmwave solutions to promoting safe and reliable vehicular communications the authors include topics such as channel estimation multi user transceiver

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design and advanced index modulation for channel estimation unique channel properties and hybrid structures are first introduced followed by the development of a doubly sparse doubly selective channel estimator for multi user transceiver design the concept of hybrid block diagonalization hbd is first introduced followed by a generic hbd based transceiver design to maximize the system capacity for advanced index modulation the generalized beamspace modulation for uplink multi user scenarios are first introduced followed by the precoded beamspace modulation for the downlink finally this book discusses open problems and future research directions to inspire further studies in the field of mmwave vehicular communications

Edge Analytics

2023-04-23

this book constitutes the refereed proceedings of the 12th international symposium isica 2021 held in guangzhou china during november 19 21 2021 the 48 full papers included in this book were carefully reviewed and selected from 99 submissions they were organized in topical sections as follows new frontier of multi objective evolutionary algorithms intelligent multi media data modeling and application of artificial intelligence exploration of novel intelligent optimization algorithm and intelligent application of industrial production

Proceedings of the International Conference on Internet of Things, Communication and Intelligent Technology

2022-09-06

this book focuses on the modeling optimization and applications of 5g green mobile

communication networks aimed at improving energy efficiency and spectrum utilization in 5g systems it offers a balance between theoretical analysis and engineering practice providing in depth studies of a number of major topics such as energy consumption models optimization system design implementation and performance evaluation it also discusses four aspects of green communication in detail cellular networks resource management wireless transmissions and multi media communications further this unique book comprehensively and systematically discusses green optimization in wireless mobile communications as such it is a valuable resource for researchers engineers and graduate students in various fields including telecommunications engineering electrical and electronic engineering and computer engineering particularly those interested in green communications

mmWave Massive MIMO Vehicular Communications

2022-07-31

specialized resource providing detailed coverage of recent advances in theory and applications of sparse arrays sparse arrays for radar sonar and communications discusses various design approaches of sparse arrays including those seeking to increase the corresponding one dimensional and two dimensional virtual array apertures as well as others that configure the arrays based on solutions of constrained minimization problems the latter includes statistical bounds and signal to interference and noise ratio in this respect the book utilizes the recent strides made in convex optimizations and machine learning for sparse array configurability in both fixed and dynamic environments similar ideas are presented for sparse array waveform design the book also discusses the role of sparse arrays in improving target detection and resolution in radar improving channel capacity in massive mimo and improving underwater target localization in sonar it covers different sparse array topologies and provides various approaches that deliver the optimum and semi optimum sparse array transceivers edited by a

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world leading expert in radar and signal processing and contributed to by world class researchers in their respective fields sparse arrays for radar sonar and communications covers topics including utilizing sparse arrays in emerging technologies and showing their offerings in various sensing and communications applications applying sparse arrays to different environments and obtain superior performances over conventional uniform arrays solving the localization beamforming and direction finding problems using non uniform array structures for narrowband and wideband signals designing sparse array structures for both stationary and moving platforms that produce physical and synthesized array apertures using deep neural networks that learn the underlying complex nonlinear model and output the sparse array configuration using representations of the input data spatio temporal observations solving for optimum sparse array configurations and beamforming coefficients in sensing using iterative convex optimization methods providing complete coverage of the recent considerable progress in sparse array design and configurations sparse arrays for radar sonar and communications is an essential resource on the subject for graduate students and engineers pursuing research and applications in the broad areas of active passive sensing and communications

Exploration of Novel Intelligent Optimization Algorithms

2019-05-17

this book brings together papers presented at the international conference on artificial intelligence in china chinaai 2019 which provided a venue for disseminating the latest advances and discussing the interactions and links between the various subfields of ai addressing topics that cover virtually all aspects of ai and the latest developments in china the book is chiefly intended for undergraduate and graduate students in electrical engineering computer science and mathematics for researchers and engineers from academia and industry and for government employees e g at the nsf dod and doe

5G Green Mobile Communication Networks

2024-01-04

the internet of things iot has seen the eventual shift to the internet of everything in the recent years unveiling its ubiquitous presence spanning from smart transports to smart healthcare from smart education to smart shopping with the 5g rollouts across the different countries of the world it raises newer perspectives toward the integration of 5g in iot for iot based smart devices 5g not only means speed but also better stability efficiency and more secure connectivity the reach of 5g in iot is extending in multifarious areas like self driving vehicles smart grids for renewable energy ai enabled robots on factory floors intelligent healthcare services the endless list is the real future of 5g in iot features fundamental and applied perspectives to 5g integration in iot transdisciplinary vision with aspects of artificial intelligence industry 4.0 and hands on practice tools discussion of trending research issues in 5g and iot as 5g technologies catalyze a paradigm shift in the domain of iot this book serves as a reference for the researchers in the field of iot and 5g proffering the landscape to the trending aspects as well as the key topics of discussion in the years to come

Sparse Arrays for Radar, Sonar, and Communications

2020-01-31

this volume constitutes selected papers presented at the first international conference on emerging technology trends in iot and computing tiotc 2021 held in erbil iraq in june 2021 the 26 full papers were thoroughly reviewed and selected from 182 submissions the papers are organized in the following topical sections internet of things iot services and applications

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internet of things iot in healthcare industry iot in networks communications and distributed computing real world application fields in information science and technology

Artificial Intelligence in China

2022-05-11

the three volume set constitutes the proceedings of the 17th international conference on wireless algorithms systems and applications wasa 2022 which was held during october 28 30 2022 the conference took place in dalian china the 95 full and 62 short papers presented in these proceedings were carefully reviewed and selected from 265 submissions the contributions in algorithms systems and applications of internet of things information processing and data management radar and sonar networks

5G and Beyond

2022-03-24

this two volume set of lnicst 411 and 412 constitutes the refereed post conference proceedings of the 9th international conference on advancement of science and technology icaast 2021 which took place in august 2021 due to covid 19 pandemic the conference was held virtually the 80 revised full papers were carefully reviewed and selected from 202 submissions the papers present economic and technologic developments in modern societies in 7 tracks chemical food and bioprocess engineering electrical and electronics engineering ict software and hardware engineering civil water resources and environmental engineering ict mechanical and industrial engineering material science and engineering energy science engineering and policy

Emerging Technology Trends in Internet of Things and Computing

2022-11-17

this book presents a unified framework for the tractable analysis of large scale multi antenna wireless networks using stochastic geometry this mathematical analysis is essential for assessing and understanding the performance of complicated multi antenna networks which are one of the foundations of 5g and beyond networks to meet the ever increasing demands for network capacity describing the salient properties of the framework which makes the analysis of multi antenna networks comparable to that of their single antenna counterparts the book discusses effective design approaches that do not require complex system level simulations it also includes various application examples with different multi antenna network models to illustrate the framework s effectiveness

Wireless Algorithms, Systems, and Applications

2022-01-01

this book is a collection of best selected papers presented at the international conference on inventive computation and information technologies icicit 2020 organized during 24 25 september 2020 the book includes papers in the research area of information sciences and communication engineering the book presents novel and innovative research results in theory methodology and applications of communication engineering and information technologies

Advances of Science and Technology

2019-03-27

this book provides a comprehensive review and in depth study on efficient beamforming design and rigorous performance analysis in mmwave networks covering beam alignment beamforming training and beamforming aided caching due to significant beam alignment latency between the transmitter and the receiver in existing mmwave systems this book proposes a machine learning based beam alignment algorithm for mmwave networks to determine the optimal beam pair with a low latency then to analyze and enhance the performance of beamforming training bft protocol in 802 11ad mmwave networks an analytical model is presented to evaluate the performance of bft protocol and an enhancement scheme is proposed to improve its performance in high user density scenarios furthermore it investigates the beamforming aided caching problem in mmwave networks and proposes a device to device assisted cooperative edge caching to alleviate backhaul congestion and reduce content retrieval delay this book concludes with future research directions in the related fields of study the presented beamforming designs and the corresponding research results covered in this book provides valuable insights for practical mmwave network deployment and motivate new ideas for future mmwave networking this book targets researchers working in the fields of mmwave networks beamforming design and resource management as well as graduate students studying the areas of electrical engineering computing engineering and computer science professionals in industry who work in this field will find this book useful as a reference

Stochastic Geometry Analysis of Multi-Antenna Wireless

Networks

2021-03-27

microwave and millimeter wave mm wave circuits and systems have been widely employed in various emerging technologies such as 5g and beyond wireless mobile communication systems autonomous driving electronic warfare and radar systems to better understand the benefits challenges and opportunities of this technology further study is required the handbook of research on emerging designs and applications for microwave and millimeter wave circuits describes the latest advances in microwave and mm wave applications and provides state of the art research in the domain of microwave mm wave and thz devices and systems covering key topics such as antennas circuits propagation and energy harvesting this major reference work is ideal for computer scientists industry professionals researchers academicians practitioners scholars instructors and students

Inventive Computation and Information Technologies

2021-10-27

this book gathers selected papers presented at 4th international conference on communication and computational technologies iccct 2022 jointly organized by soft computing research society scrs and rajasthan institute of engineering technology riet jaipur during february 26 27 2022 the book is a collection of state of the art research work in the cutting edge technologies related to the communication and intelligent systems the topics covered are algorithms and applications of intelligent systems informatics and applications and communication and control systems

Millimeter-Wave Networks

2023-01-23

Handbook of Research on Emerging Designs and Applications for Microwave and Millimeter Wave Circuits

2022-09-26

Proceedings of International Conference on Communication and Computational Technologies

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