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KEY=NETWORKING - MOYER ROWAN

Satellite Systems for Personal and Broadband Communications

Springer Science & Business Media A scientific overview of current and future satellite systems for mobile and broadband communications. In part I, the fundamentals of geostationary and non-geostationary satellite constellations and the related questions of communications technology are treated. Part II deals with satellite systems for mobile communications and treats several network features as well as their technology, regulation and financing. Part III is devoted to future satellite systems for broadband communications and explains the specialities of satellite communications, particularly on the basis of ATM and TCP/IP. An extensive survey on operating and planned satellite

systems completes the book.

Recent Trends in Wireless and Mobile Networks

Second International Conference, WiMo 2010, Ankara, Turkey, June 26-28, 2010. Proceedings

Springer The International Conference on Wireless and Mobile networks (WiMo) aims to bring together innovative ideas and new research trends in wireless and mobile networks. Wireless networks are the best inventions in history. Wireless networking gives you a cheap and easy way to share one Internet connection between multiple computers, eliminating the need for more than one modem. You can even add new computers to your network simply by plugging in a wireless card and switching them on––they have an Internet connection straight away! There aren't many wired networks that can say that. This conference is dedicated to addressing the challenges in the areas of wireless and mobile networks. It looks for significant contributions to wireless and mobile computing in theoretical and practical aspects. The wireless and mobile computing domain emerges from integrating personal computing, networks, communication te- nologies, cellular technology and Internet technology. Modern applications are eme- ing in the area of mobile ad hoc networks and sensor networks. WiMo 2010 intended to cover contributions in both design and analysis in the context of mobile, wireless, ad hoc, and sensor networks. The goal of the conference was to bring together - searchers and practitioners from academia and industry to focus on advanced wireless and mobile computing concepts and establish new collaborations in these areas.

Proceedings of the Fifth International Mobile Satellite

Conference 1997, IMSC '97

Pasadena, CA, June 16-18, 1997

Routing and Quality-of-Service in Broadband LEO Satellite Networks

Springer Science & Business Media Routing and Quality-of-Service in Broadband LEO Satellite Networks describes mechanisms for supporting Quality-of-Service (QoS) strategies that consider properties of low earth orbit satellite networks and their effects on link handover. A graph model representing the dynamic topology of a satellite constellation is introduced based on a new parameter, lifetime. Novel routing and resource reservation algorithms as well as connection admission control strategies are proposed to minimize the handover blocking probability while maintaining QoS requirements. The author also discusses the roles of satellites in an all-IP mobile network architecture and the problems of mobility, QoS provisioning, and routing. This work will be of particular interest to researchers and professionals working on mobility networking in next generation networks.

Internetworking and Computing Over Satellite Networks

Springer Science & Business Media The emphasis of this text is on data networking, internetworking and distributed computing issues. The material surveys recent work in the area of satellite networks, introduces certain state-of-the-art technologies, and presents recent research results in these areas.

Mobile Satellite Communication Networks

John Wiley & Sons Mobile satellite services are set to change with the imminent launch of satellite personal communication services (S-PCS), through the use of non-geostationary satellites. This new generation of satellites will be placed in low earth orbit or medium earth orbit, hence, introducing new satellite design concepts. One of the first texts to cover this rapidly evolving field, this text provides the reader with an overview of mobile satellite systems, from their initial introduction (Inmarsat), current satellite-PCS (referring to such systems as Globalstar), through to Satellite-UMTS and an understanding of the following: * The design concepts associated with non-geostationary satellite systems (constellation, link budgets, Doppler) * The concepts of UMTS (network architecture, aims, in the context of IMT-2000) and the role foreseen for the satellite component (complementary to terrestrial network, network extension, global availability) * Inter-working between satellite and terrestrial networks (network architecture, ATM Adaptation Layer) * Radio interface technologies (WB-CDMA, TDMA, transmission environment) * Regulatory issues * Future services and applications * Potential satellite markets (prediction techniques, effect of tariffing policies on potential market) With leading edge information, this valuable resource will be indispensable to researchers, engineers, operators and market evaluators in satellite service industries and research institutions, as well as postgraduates and research students in the field.

FCC Record

A Comprehensive Compilation of Decisions, Reports, Public Notices, and Other Documents of the Federal

Communications Commission of the United States

FCC Annual Report and Analysis of Competitive Market Conditions with Respect to Commerical Mobile Services

Information Gatekeepers Inc

Internet of Things, Smart Spaces, and Next Generation Networks and Systems

14th International Conference, NEW2AN 2014 and 7th Conference, ruSMART 2014, St. Petersburg, Russia, August 27-29, 2014, Proceedings

Springer This book constitutes the joint refereed proceedings of the 14th International Conference on Next Generation Wired/Wireless Advanced Networks and Systems, NEW2AN 2014, and the 7th Conference on Internet of Things and Smart Spaces, ruSMART 2014, held in St. Petersburg, Russia, in August 2014. The total of 67 papers was carefully reviewed and selected for inclusion in this book. The 15 papers selected from ruSMART are organized in topical sections named: smart spaces core technologies, smart spaces for geo-location and e-tourism apps, smart space supporting technologies, and video solutions for smart spaces. The 52 papers from NEW2AN deal with the following topics: advances in wireless networking, ad hoc networks and enhanced services, sensor- and machine-type

communication, networking architectures and their modeling, traffic analysis and prediction, analytical methods for performance evaluation, materials for future communications, generation and analysis of signals, business aspects of networking, progress on upper layers and implementations, modeling methods and tools, techniques, algorithms, and control problems, photonics and optics, and signals and their processing.

Satellite Network Robust QoS-aware Routing

Springer Satellite Network Robust QoS-aware Routing presents a novel routing strategy for satellite networks. This strategy is useful for the design of multi-layered satellite networks as it can greatly reduce the number of time slots in one system cycle. The traffic prediction and engineering approaches make the system robust so that the traffic spikes can be handled effectively. The multi-QoS optimization routing algorithm can satisfy various potential user requirements. Clear and sufficient illustrations are also presented in the book. As the chapters cover the above topics independently, readers from different research backgrounds in constellation design, multi-QoS routing, and traffic engineering can benefit from the book. Fei Long is a senior engineer at Beijing R&D Center of 54th Research Institute of China Electronics Technology Group Corporation.

Next Generation Wireless Networks

Springer Science & Business Media This book is a collection of extended versions of the papers presented at the Symposium on Next Generation Wireless Networks, May 26, 2000, New Jersey Institute of Technology, Newark, NJ. Each chapter includes, in addition to technical contributions, a tutorial of the corresponding area. It has been a privilege to bring together these contributions from researchers on the leading edge of the field. The papers were submitted in response to a call for papers aiming to concentrate on the applications and services for the "next generation," deliberately omitting the numeric reference so that the authors' vision of the future would not be limited by the definitive requirements of a particular set of standards. The book, as a result, reflects the top-down approach by focusing on enabling technologies for the applications and services that are the defining essentials for future wireless networks. This approach strikes a balance between the academia and the industry by addressing new wireless network architectures enabling mobility and location enhanced applications and services that will give wireless systems the competitive edge over others. The main theme of the book is the advent of wireless networks as an irreplaceable

means of global communication as opposed to a mere substitute for, or a competitor of, wireline networks. Geolocation emerges as the facilitator of mobility and location sensitive services. The fields of geolocation and wireless communications have been forced to merge, following the Federal Commission of Communications' (FCC) ruling that obliges wireless providers with emergency caller geolocation.

The RF and Microwave Handbook

CRC Press The recent shift in focus from defense and government work to commercial wireless efforts has caused the job of the typical microwave engineer to change dramatically. The modern microwave and RF engineer is expected to know customer expectations, market trends, manufacturing technologies, and factory models to a degree that is unprecedented in the

Microwave and RF Product Applications

CRC Press The field of microwave engineering has undergone a radical transformation in recent years, as commercial wireless endeavors overtook defense and government work. The modern microwave and RF engineer must be knowledgeable about customer expectations, market trends, manufacturing technologies, and factory models to a degree that is unprecedented. Unfortunately, most of the available literature does not reflect this fact, but remains focused on high-performance, low-volume applications. Microwave and RF Product Applications helps resolve that deficiency. Editor Mike Golio culled its chapters from his bestselling RF and Microwave Handbook, incorporated critical updates contributed by the original authors, and organized the chapters into a practical, tightly focused reference. A complete table of contents at the front of the text makes finding specific answers quick and easy, and detailed lists of references in each chapter provide convenient access to the relevant expert literature. For engineers in industry, government, or academia, Microwave and RF Product Applications provides insight and information that may be outside their area of expertise. For managers, marketers, and technical support personnel, it builds a better understanding of the fields that drive and are affected by their decisions.

Intelligent Computing and Optimization

Proceedings of the 3rd International Conference on Intelligent Computing and Optimization 2020 (ICO 2020)

Springer Nature Third edition of International Conference on Intelligent Computing and Optimization and as a premium fruit, this book, pursue to gather research leaders, experts and scientists on Intelligent Computing and Optimization to share knowledge, experience and current research achievements. Conference and book provide a unique opportunity for the global community to interact and share novel research results, explorations and innovations among colleagues and friends. This book is published by SPRINGER, Advances in Intelligent Systems and Computing. Ca. 100 authors submitted full papers to ICO'2020. That global representation demonstrates the growing interest of the research community here. The book covers innovative and creative research on sustainability, smart cities, meta-heuristics optimization, cyber-security, block chain, big data analytics, IoTs, renewable energy, artificial intelligence, Industry 4.0, modeling and simulation. We editors thank all authors and reviewers for their important service. Best high-quality papers have been selected by the International PC for our premium series with SPRINGER.

Mobile Multimedia Communications: Concepts, Applications, and Challenges

Concepts, Applications, and Challenges

IGI Global With rapid growth of the Internet, the applications of multimedia are burgeoning in every aspect of human life including communication networks and wireless and mobile communications. Mobile Multimedia Communications: Concepts, Applications and Challenges captures defining research on all aspects and implications of the accelerated

progress of mobile multimedia technologies. Covered topics include fundamental network infrastructures, modern communication features such as wireless and mobile multimedia protocols, personal communication systems, mobility and resource management, and security and privacy issues. A complete reference to topics driving current and potential future development of mobile technologies, this essential addition to library collections will meet the needs of researchers in a variety of related fields.

Proceedings of the Applied Telecommunications Symposium (ATS '99)

1999 Advanced Simulation Technologies Conference, San Diego, California, April 11-15, 1999, Hyatt Islandia Hotel

Simulation Council

Internet of Things, Smart Spaces, and Next Generation Networking

12th International Conference, NEW2AN 2012, and 5th

Conference, ruSMART 2012, St. Petersburg, Russia, August 27-29, 2012, Proceedings

Springer This book constitutes the joint refereed proceedings of the 12 International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking, NEW2AN, and the 5th Conference on Internet of Things and Smart Spaces, ruSMART 2012, held in St. Petersburg, Russia, in August 2012. The total of 42 papers was carefully reviewed and selected for inclusion in this book. The 14 papers selected from ruSMART are organized in topical sections named: defining an internet-of-things ecosystem; future services; and smart space governing through service mashups. The 28 papers from NEW2AN deal with the following topics: wireless cellular networks; ad-hoc, mesh, and delay-tolerant networks; scalability, cognition, and self-organization; traffic and internet applications; and wireless sensor networks. They also contain 4 selected papers from the NEW2AN 2012 winter session.

Emerging Technologies for Connected Internet of Vehicles and Intelligent Transportation System Networks

Emerging Technologies for Connected and Smart Vehicles

Springer This book discusses vehicular communication systems, IoT, intelligent transportation systems and the Internet of Vehicles, and also introduces destination marketing in a structured manner. It is primarily intended for research students interested in emerging technologies for connected Internet of Vehicles and intelligent transportation system networks; academics in higher education institutions, including universities and vocational colleges; IT professionals; policy makers; and legislators. The book can also be used as a reference resource for both

undergraduate and graduate studies. Written in plain and simple language, it describes new concepts so that they are accessible to readers without prior knowledge of the field.

Emerging Computing Paradigms

Principles, Advances and Applications

John Wiley & Sons EMERGING COMPUTING PARADIGMS A holistic overview of major new computing paradigms of the 21st Century In Emerging Computing Paradigms: Principles, Advances and Applications, international scholars offer a compendium of essential knowledge on new promising computing paradigms. The book examines the characteristics and features of emerging computing technologies and provides insight into recent technological developments and their potential real-world applications that promise to shape the future. This book is a useful resource for all those who wish to quickly grasp new concepts of, and insights on, emerging computer paradigms and pursue further research or innovate new novel applications harnessing these concepts. Key Features Presents a comprehensive coverage of new technologies that have the potential to shape the future of our world—quantum computing, computational intelligence, advanced wireless networks and blockchain technology Revisits mainstream ideas now being widely adopted, such as cloud computing, the Internet of Things (IoT) and cybersecurity Offers recommendations and practical insights to assist the readers in the application of these technologies Aimed at IT professionals, educators, researchers, and students, Emerging Computing Paradigms: Principles, Advances and Applications is a comprehensive resource to get ahead of the curve in examining and exploiting emerging new concepts and technologies. Business executives will also find the book valuable and gain an advantage over competitors in harnessing the concepts examined therein.

A Collection of the ... AIAA International Communications Satellite Systems Conference and Exhibit Technical

Papers

Towards a Wireless Connected World: Achievements and New Technologies

Springer Nature This book gathers key advances in various areas related to using wireless Internet and wireless connectivity to achieve a more connected world. The world is now highly dependent on Internet connectivity. Even though some parts of the globe remain isolated, the smoothly running world all around us relies on Internet services for countless businesses and activities. During the COVID-19 pandemic, we have seen that exclusively relying on wired Internet would leave out a large part of our tech-savvy world. Hence, wireless connectivity is essential to anywhere, anytime connectivity. Further, in the event of a new pandemic or other disaster of global scale, wireless Internet offers a reliable way to keep us all connected. The contributors to this book, hailing from academia, industrial and research laboratories, report on the latest solutions, trends and technologies with the potential to make wireless Internet more reliable and secure for the years to come.

Mobile Satellite Communications

Principles and Trends

John Wiley & Sons Demand for Mobile Satellite Service (MSS) is on the increase, with a huge surge of interest in mobile communications in recent years and high-paced advancements in the supporting system architectures, devices and applications. This thoroughly revised and updated book provides a comprehensive guide to the MSS technologies and emerging trends. It takes a system level approach, giving in-depth treatment of technical and business related issues. The author, a leading professional in the area, draws on his extensive experience in industry and research, to provide the reader with a sound and informed understanding of the technology. Mobile Satellite Communications includes

introductory material for the reader new to the field, in addition to exploring prevalent system concepts, architecture, practices and trends for the more experienced. An in-depth review of scientific principles merged with business models and regulatory considerations presents a balanced perspective of commercial mobile satellite systems. This book will be of interest to practicing engineers in mobile satellite communications and mobile broadcasting, research and development professionals working in these areas, mobile satellite service providers and operators. Academics and students studying satellite systems/technology, specialists in other classes of satellite systems, technical and marketing managers, strategists and planners of telecommunication systems: individuals interested in mobile communications, satellite and telecommunications/broadcasting technology will also find this book insightful. Key Features: Comprehensive treatment of mobile satellite communications topics, including radio link aspects, satellite constellations, architectural and operational aspects, as well as business planning models, MSS radio interface standards, spectrum forecast methodologies and system examples. Addresses related themes such as mobile broadcasting, mobile VSATs, search and rescue, and navigation systems. Introduces emerging technologies such as mobile broadband, television broadcasting to handheld units, advanced capacity enhancement techniques, hybrid system architecture concepts, including a rich sample of research topics such as multiple input multiple output, satellite-based ad-hoc networks, and highlights initiatives in the use of Q/V frequency bands. Includes revision questions at the end of each chapter. An accompanying website for interaction (www.satellitesandyou.com).

InfoWorld

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

A Collection of the 18th AIAA International Communications Satellite Systems Conference and

Exhibit Technical Papers

Oakland, CA, 10-14 April 2000

Mobile and Personal Satellite Communications 3

Proceedings of the Third European Workshop on Mobile/Personal Satcoms (EMPS 98)

Springer Science & Business Media This book of Proceedings contains papers of the "Third European Workshop on Mobile/Personal Satcoms" (EMPS '98), held in Venice, Italy, November 1998. For the third time, EMPS has given to the experts an opportunity for exchanging opinions and novel ideas in the exciting field of mobile and personal satellite communications. As with the 1996 edition, EMPS '98 issued a formal call for papers, gathering a large number of contributions from many different countries. Each submitted paper has been reviewed by international referees and, finally, selected by the Workshop Steering Committee (WSC). Furthermore, key-topics in the field of mobile/personal satcoms have also been focused on through a few invited papers. As EMPS has been conceived to gather trends and novelties in the field of mobile/personal satcoms, it is tightly matched to the natural evolution of the field itself. In this frame, the reader will notice how the dominant topics are related to system and network issues, while a very little number of contributions have been provided in the propagation and channel related areas. This represents a natural trend of a field, where deep efforts have been paid in the past years to understanding and modelling the physical layer and where the present interest is mostly migrating to the applications. Further changes and novelties may be envisaged in the future of this field. I believe that EMPS will continue to represent an effective opportunity to catch and understand more deeply this evolution.

Quality of Future Internet Services

First COST 263 International Workshop, QofIS 2000

Berlin, Germany, September 25-26, 2000 Proceedings

Springer The papers in this book present various viewpoints on the design and - plementation of techniques for QoS engineering for Internet services.They were selected from more than 70 submissions to the 1st International workshop on "Quality of future Internet services" (QofIS) organized by COST Action 263. The main focus of the papers is on the creation, con?guration and deployment of end-to-end services over a QoS assured Internet using the IntServ (Integrated Services) and Di?Serv (Di?erentiated Services) models. The main technical p- gramme was completed by two keynote talks: IETF Chair Fred Baker opened the workshop with a discussion on major Internet development directions and Andrew M. Odlyzko of AT&T Labs Research gave the closing talk on Internet charging issues. The presentation of papers was organised in 9 sessions. The emphasis of Session 1 is on an assessment of the essential building blocks for a QoS assured Internet, i.e., queueing and scheduling, which basically de?nes the space for end-to-end services. The papers of this session discuss the bounds we may expect from these building blocks, the issues of queueing and scheduling management, and the parameters we need to tune in a dynamic implementation. Flow control and congestion control cannot be considered without regard to the dominating impact of TCP. The keyword of Session 2 is, therefore, Intern- friendly adaptation. Four papers in this session are complementary and together present an emerging understanding of a basic optimal area for such adaptation.

Space of Service to Humanity

Preserving Earth and Improving Life

Springer Science & Business Media G. Haskell, Symposium Convenor & Vice President for Academic Services and Outreach, International Space University By taking "Space of Service to Humanity" as the theme for the inaugural event in its series of annual symposia, the International Space University (ISU) is asserting that this application of space technology requires special attention at this time. Future symposia will examine the issues of the day from different perspectives. In keeping with the fundamental principles of ISU, the symposium took a global perspective, as distinct from national or regional perspectives, and treated both technical and non-technical topics. Oral and poster presentations were delivered in the scientific, engineering, economic, legal, political and philosophical domains. All oral papers were delivered in plenary session to encourage cross fertilization between specialities, and posters were readily available for viewing throughout the three-day event. As an international and interdisciplinary forum for the sharing of experience and for discussion and debate, the symposium proved to be a stimulating and worthwhile event for the 135 participants from 25 countries and 5 international organizations with backgrounds in industry, government and academia.

The Motor Ship

Third International Conference on 3G Mobile Communication Technologies, 8-10 May 2002

Venue, IEE, Savoy Place, London, UK

Inst of Engineering & Technology

World Internet Development Report 2018

Blue Book of World Internet Conference

Springer Nature This book is an important outcome of the Fifth World Internet Conference. It provides a comprehensive account of the new trends and highlights of global Internet development over the past year, covering network infrastructure, information technology, digital economy, world internet media, cyber security, and international cyberspace governance. This year, the book improves the Global Internet Development Index System and adds more countries into the assessed list, in order to reflect more comprehensively, objectively and accurately the general situation of the world Internet development and thus to provide reference for all countries in promoting Internet development and governance.

Data Localization Laws and Policy

The EU Data Protection International Transfers Restriction Through a Cloud Computing Lens

Edward Elgar Publishing Countries are increasingly introducing data localization laws, threatening digital globalization and inhibiting cloud computing adoption despite its acknowledged benefits. This multi-disciplinary book analyzes the EU restriction (including the Privacy Shield and General Data Protection Regulation) through a cloud computing lens, covering historical objectives and practical problems, showing why the focus should move from physical data location to effective jurisdiction over those controlling access to intelligible data, and control of access to data through security.

Eleventh International Conference on Antennas and Propagation

Information Technology Encyclopedia and Acronyms

Springer Science & Business Media Since the early days of information technology, professionals have developed an extraordinary huge amount of jargon, full of acronyms. This dictionary resolves more than 4,000 broadly used acronyms. It provides concise information, illustrated explanations, and numerous cross-references for the majority of technical terms. Most entries for acronyms that are associated with organizations, corporations, and conferences include Web links. All in all, the book constitutes an encyclopaedic documentation of information and communication technology organized by acronyms. An invaluable reference work for anybody who wants to stay on top of today's fast growing language of information technology.

Annual Institute on Telecommunications

Policy and Regulation : [proceedings].

Annual Institute on Telecommunications Policy and Regulation

Proceedings of the Asia Pacific Conference on Parallel and Distributed Computing Technologies

Contributed papers presented at the conference held on 13-15 December, 2004, at Vellore, India.

Twenty-fourth AIAA International Communication Satellite Systems Conference

Internetworking and Computing Over Satellite Networks

Springer Science & Business Media The emphasis of this text is on data networking, internetworking and distributed computing issues. The material surveys recent work in the area of satellite networks, introduces certain state-of-the-art technologies, and presents recent research results in these areas.

World Meetings

social & behavioral sciences, human services & management

Optical Network Design and Modeling

23rd IFIP WG 6.10 International Conference, ONDM 2019, Athens, Greece, May 13–16, 2019, Proceedings

Springer Nature This book constitutes the refereed proceedings of the 23rd International IFIP conference on Optical Network Design and Modeling, ONDM 2019, held in Athens, Greece, in May 2019. The 39 revised full papers were carefully reviewed and selected from 87 submissions. The papers focus on cutting-edge research in established areas of optical networking as well as their adoption in support of a wide variety of new services and applications. This involves the most recent trends in networking including 5G and beyond, big data and network data analytics, cloud/edge computing, autonomic networking, artificial intelligence assisted networks, secure and resilient networks, that drive the need for increased capacity, efficiency, exibility and adaptability in the functions that the network can perform. In this context new disaggregated optical network architectures were discussed, exploiting and integrating novel multidimensional photonic technology solutions as well as adopting open hardware and software platforms relying on software defined networking (SDN), and network function virtualization (NFV) to allow support of new business models and opportunities.