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KEY=GSM - KENT HOWARD

High-Speed Rail in Poland Advances and Perspectives

CRC Press The Railway Research Institute (Instytut Kolejnictwa) in Warsaw was established in 1951 and was, until 2000, part of the Polish State Railways (PKP). At present, it serves as an independent entity, it is subordinated to the minister responsible for transport. Since its inception, the Institute has been the centre of competence for technology, technique and organization of operation and services in rail transport, particularly in respect to innovation. One of its fundamental tasks also includes activities connected with safety which are carried out in close cooperation with the National Safety Authority, i.e. the Office of Rail Transport. At the same time the Institute participated in the process of upgrading and modernization of the rail network in Poland. Experience in high speed rail, gained as a result of international cooperation and basing on the effort to increase speed on railway lines in Poland (so far 200 km/h), is included in the monograph "Koleje Dużych Prędkości w Polsce" (High Speed Rail in Poland) published in 2015 for the benefit of the Polish reader. This monograph aims at reaching an international audience of experts so as to present Polish determinants of HSR implementation. In order to elaborate this monograph, apart from specialists from the Railway Research Institute, experts from other research and academic centres were invited. Not only presenting a wide range of problems connected with future construction of High Speed Lines in Polish conditions, but also a number of operational ones. The authors have created a reference work of universal character, solving problems in order to build and operate high speed rail systems in countries on a similar level of development as Poland. Features: providing requirements for design and upgrade of engineering works on High Speed Rail development information on restructuring and building railway lines for countries starting to develop a High Speed Rail system dealing with organizational, engineering, socioeconomic and economic demands for transport services and the formation of human resources for constructing and operating a High Speed Rails system. Presenting these problems on the international arena will facilitate future cooperation and application of world experience to create HSR in Poland and integrate the Polish HSR network into the international one.

Broadband Wireless Communications for Railway Applications For Onboard Internet Access and Other Applications

Springer This book focuses on the needs of railway operators in terms of wireless communications, divided in two main categories: the commercial services and the operational needs. Then, all available technologies that can be used to provide Internet access on board trains and all the other operational applications requiring high capacity are detailed. Finally, challenges and trends in railway telecommunications are highlighted, through the presentation of the future and emerging technologies, the current discussions and works in the different authorities, and the key challenges and scientific barriers.

Perspectives on Digital Humanism

[Springer Nature](#) This open access book aims to set an agenda for research and action in the field of Digital Humanism through short essays written by selected thinkers from a variety of disciplines, including computer science, philosophy, education, law, economics, history, anthropology, political science, and sociology. This initiative emerged from the Vienna Manifesto on Digital Humanism and the associated lecture series. Digital Humanism deals with the complex relationships between people and machines in digital times. It acknowledges the potential of information technology. At the same time, it points to societal threats such as privacy violations and ethical concerns around artificial intelligence, automation and loss of jobs, ongoing monopolization on the Web, and sovereignty. Digital Humanism aims to address these topics with a sense of urgency but with a constructive mindset. The book argues for a Digital Humanism that analyses and, most importantly, influences the complex interplay of technology and humankind toward a better society and life while fully respecting universal human rights. It is a call to shaping technologies in accordance with human values and needs.

Intelligent Transportation Systems – Problems and Perspectives

[Springer](#) This book presents a discussion of problems encountered in the deployment of Intelligent Transport Systems (ITS). It puts emphasis on the early tasks of designing and proofing the concept of integration of technologies in Intelligent Transport Systems. In its first part the book concentrates on the design problems of urban ITS. The second part of the book features case studies representative for the different modes of transport. These are freight transport, rail transport and aerospace transport encompassing also space stations. The book provides ideas for deployment which may be developed by scientists and engineers engaged in the design of Intelligent Transport Systems. It can also be used in the training of specialists, students and post-graduate students in universities and transport high schools.

Operating Rules and Interoperability in Trans-National High-Speed Rail

[Springer Nature](#) This book examines the problem of interoperability related to operating rules and gives an overview of the formal method approaches related to this subject. The book examines the interoperability issues concerning implementation of European Rail Traffic Management System (ERTMS) while crossing a boarder. It also looks at the implementing of the ERTMS and provides solutions regarding operating rules for ERTMS lines, using formal methods and simulation tools. The contributors will also discuss operating rule validation and formal methods for safety assessment.

IMS

A Development and Deployment Perspective

[John Wiley & Sons](#) Providing an holistic approach to IMS technologies, *IMS: A Development and Deployment Perspective* explores service architecture for development and delivery of IMS services. Approaching IMS from the perspective of the user and the service provider it examines both the current state of deployment and future trends. The book offers a realistic view of IMS deployment to operators and service providers, giving practical examples, application cases and business models. It also presents IMS deployment strategies based on real-life deployment statistics from a live IMS test bed connected to an operator network and proof-of-concept applications including inter-operability trials and results. Focusing on IMS potential in terms of service creation, service composition and service provision the book discusses the ability of IMS to act not only as a service delivery framework, but also as a service integration framework. It presents the possible future of IMS in terms of convergence with Internet services, including discussions about integration with web technologies including the WIMS 2.0 initiative. The book enables a better understanding of how web technologies can complement the IMS service architecture and pioneer the post-IMS progress and success. Presents a novel service-oriented approach to IMS services and applications from a deployment perspective Places IMS in the context of the current telecom environment providing business models through WIMS 2.0 initiative Predicts the trends and potential future for the IMS evolution Provides a technical foundation to IMS principles and architecture Gives examples and solutions to the challenges of service creation and implementation and analyses deployment hurdles and interoperability trials Describes trends of convergence based on IMS and Web technologies

Computers in Railways XVII

Railway Engineering Design and Operation

WIT Press It is important to continue to update the use of advanced systems by promoting general awareness throughout the management, design, manufacture and operation of railways and other emerging passenger, freight and transit systems. Originating from presentations at the 17th International Conference on Railway Engineering Design and Operation, this volume contains selected research works on the topic. The included papers help to facilitate the use of advanced systems and place a key focus on the applications of computer systems in advanced railway engineering. These research studies will be of interest to all those involved in the development of railways, including managers, consultants, railway engineers, designers of advanced train control systems and computer specialists.

Railway Safety, Reliability, and Security: Technologies and Systems Engineering

Technologies and Systems Engineering

IGI Global Human errors, as well as deliberate sabotage, pose a considerable danger to passengers riding on the modern railways and have created disastrous consequences. To protect civilians against both intentional and unintentional threats, rail transportation has become increasingly automated. **Railway Safety, Reliability, and Security: Technologies and Systems Engineering** provides engineering students and professionals with a collection of state-of-the-art methodological and technological notions to support the development and certification of "real-time safety-critical" railway control systems, as well as the protection of rail transportation infrastructures.

Vehicular Networking

Automotive Applications and Beyond

John Wiley & Sons During the last 15 years, the interest in vehicular communication has grown, especially in the automotive industry. Due to the envisioned mass market, projects focusing on Car-to-X communication experience high public visibility. This book presents vehicular communication in a broader perspective that includes more than just its application to the automotive industry. It provides, researchers, engineers, decision makers and graduate students in wireless communications with an introduction to vehicular communication focussing on car-to-x and train-based systems. Emphasizes important perspectives of vehicular communication including market area, application areas, and standardization issues as well as selected topics featuring aspects of developing, prototyping, and testing vehicular communication systems. Supports the reader in understanding common characteristics and differences between the various application areas of vehicular communication. Offers both an overview of the application area and an in-depth discussion of key technologies in these areas. Written by a wide range of experts in the field.

Cross-Industry Use of Blockchain Technology and Opportunities for the Future

IGI Global Blockchain is a technology that transcends cryptocurrencies. There are other services in different sectors of the economy that can benefit from the trust and security that blockchains offer. For example, financial institutions are using blockchains for international money transfer, and in logistics, it has been used for supply chain management and tracking of goods. As more global companies and governments are experimenting and deploying blockchain solutions, it is necessary to compile knowledge on the best practices, strategies, and failures in order to create a better awareness of how blockchain could either support or add value to other services. **Cross-Industry Use of Blockchain Technology and Opportunities for the Future** provides emerging research highlighting the possibilities inherent in blockchain for different sectors of the economy and the added value blockchain

can provide for the future of these different sectors. Featuring coverage on a broad range of topics such as data privacy, information sharing, and digital identity, this book is ideally designed for IT specialists, consultants, design engineers, cryptographers, service designers, researchers, academics, government officials, and industry professionals.

Rail Human Factors

Supporting the Integrated Railway

Routledge In recent years, for reasons connected to the organization of the industry, technical developments, and major safety concerns, rail human factors has grown in importance at an international level. Despite its importance, however, supporting literature has been largely restricted to specialist journal publications and technical reports. **Rail Human Factors** addresses this imbalance by providing the first fully comprehensive overview of the area. The volume includes contributions from leading ergonomists, psychologists, sociologists, management scientists and engineers whose common theme is to investigate, understand and design for people on the railways, including staff, passengers and the general public. Every area of ergonomics/human factors is covered: physical design of work and equipment in maintenance; cognitive ergonomics in driving, signalling and control; organizational and social ergonomics in the way teams are formed, plans are made and organizations are structured and run. Topics covered include: Systems views of rail human factors Driver models and performance Train and cab design Network and train control systems, including ERTMS Signals and signal SPADS Signalling and control center design Signaller performance Control center interfaces Workload, situation awareness, team working Human error and reliability Timetabling and planning Maintenance planning and work Safety climate and safety culture Passenger comfort and behaviour Station design Public information systems Level crossings Trespass and vandalism Ergonomics standards and guidelines Human Factors integration The book is the definitive guide for all those concerned with making railways safer, more

Geographic Information Systems: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global Developments in technologies have evolved in a much wider use of technology throughout science, government, and business; resulting in the expansion of geographic information systems. GIS is the academic study and practice of presenting geographical data through a system designed to capture, store, analyze, and manage geographic information. **Geographic Information Systems: Concepts, Methodologies, Tools, and Applications** is a collection of knowledge on the latest advancements and research of geographic information systems. This book aims to be useful for academics and practitioners involved in geographical data.

Leap 4.0. African Perspectives on the Fourth Industrial Revolution

African Perspectives on the Fourth Industrial Revolution

African Books Collective **Leap 4.0: African Perspectives on the Fourth Industrial Revolution** seeks to identify the challenges and opportunities the 4IR presents to South Africa and the rest of the African continent, especially to workers and marginalised sectors of society. Authors examine the prerequisites for the successful introduction of the 4IR, including infrastructure, skilled personnel and appropriate regulation. They underline the importance of inclusive innovation, with a deliberate objective to create net new jobs and reduce inequality. The 4IR is well established in many parts of the world, with technological advances driving profound social and economic change. However, for many developing countries, particularly countries in Africa, the 4IR may not offer the anticipated 'leap' forward. There is a danger that the continent may find itself dictated to by experiences that are not in tune with its social contexts.

Computer Safety, Reliability, and Security

SAFECOMP 2012 Workshops: Sassur, ASCoMS, DESEC4LCCI, ERCIM/EWICS, IWDE, Magdeburg, Germany, September 25-28, 2012, Proceedings

[Springer](#) This book constitutes the refereed proceedings of 5 workshops co-located with SAFECOMP 2012, the 31st International Conference on Computer Safety, Reliability, and Security, held in Magdeburg, Germany, in September 2012. The 49 revised full papers presented were carefully reviewed and selected from numerous submissions. According to the workshops covered, the papers are organized in topical sections on: next generation of system assurance approaches for safety-critical systems (Sassur), architecting safety in collaborative mobile systems (ASCoMS), dependable and secure computing for large-scale complex critical infrastructures (DESEC4LCCI), ERCIM/EWICS/cyberphysical systems (ERCIM/EWICS), and on digital engineering (IWDE).

Emerging Public Safety Wireless Communication Systems

[Artech House](#) With the increasing need for more effective and efficient responses to man-made and natural public safety threats, the necessity for improved private mobile and commercial wireless digital communication systems has become apparent. This one-of-a-kind resource describes today's public safety communication requirements and radio systems from a technical perspective, and shows you how communication systems are evolving to meet the growing demands of multimedia wireless applications.

Research Handbook on the European Union and International Organizations

[Edward Elgar Publishing](#) Over the years, the European Union has developed relationships with other international institutions, mainly as a result of its increasingly active role as a global actor and the transfer of competences from the Member States to the EU. This book presents a comprehensive and critical assessment of the EU's engagement with other international institutions, examining both the EU's representation and cooperation as well as the influence of these bodies on the development of EU law and policy.

The Cabling Handbook

[Prentice Hall Ptr](#) Revision includes coverage of cable industry, home networking and A+ certification.

NFC Payment Systems and the New Era of Transaction Processing

[IGI Global](#) Advancements in technology have created more opportunities for mobile applications in modern society. In the financial realm, these innovations provide better user experience and digital capabilities. NFC Payment Systems and the New Era of Transaction Processing provides a thorough examination on the impact of NFC payment technology on the convenience, flexibility, and usability of transactions. Including a range of pertinent topics such as network threats, operating modes, and data security, this publication is an ideal reference source for researchers, students, academics, professionals, and practitioners interested in the rise of mobile technology in financial systems.

New Applications in IT Standards: Developments and Progress

Developments and Progress

[IGI Global](#) Provides essential research on developing, teaching, and implementing standards in global organizations and institutions.

Aanwinsten van de Centrale Bibliotheek (Queteletfonds)

The International Radio Regulations

The Case for Reform

[Springer Nature](#) This book provides an in-depth introduction to the International Telecommunication Union (ITU) Radio Regulations (RR) and the policies that govern them. Established in 1906, these regulations define the allocation of different frequency bands to different radio services, the mandatory technical parameters to be observed by radio stations, especially transmitters, and the procedures for spectrum use coordination at the international level. The book analyzes the interactions between different national policies and the ITU RR, noting how these interactions influence spectrum policy on the national level, setting up a comparative framework within which to view these regulations and their effects. Beginning with an overview of the history of the origins ITU RR, the book takes a deep dive into the components of spectrum management including radio communication service allocation, wireless technology selection, radio usage rights, and spectrum rights assignment, placing each analysis within the context of the push and pull between national and international regulations. The book concludes with chapters discussing issues affecting the future of spectrum policy, including spectrum policy reform in developing countries, the WRC-19, and IMT-2020. Shedding light on the longest-running treaty documents in the history of modern telecommunications and arguing for reforms that allow it to address the needs of all nations, this book is useful to scholars and students of telecom policy, digital policy, ICT, governance, and development as well as telecom industry practitioners and regulators.

The Ubiquitous Internet

User and Industry Perspectives

[Routledge](#) This book presents state of the art theoretical and empirical research on the ubiquitous internet: its everyday users and its economic stakeholders. The book offers a 360-degree media analysis of the contemporary terrain of the internet by examining both user and industry perspectives and their relation to one another. Contributors consider user practices in terms of internet at your fingertips—the abundance, free flow, and interconnectivity of data. They then consider industry's use of user data and standards in commodification and value-creation.

Roadmap to Successful Digital Health Ecosystems

A Global Perspective

[Academic Press](#) Roadmap to Successful Digital Health Ecosystems: A Global Perspective presents evidence-based solutions found on adopting open platforms, standard information models, technology neutral data repositories, and computable clinical data and knowledge (ontologies, terminologies, content models, process models, and guidelines), resulting in improved patient, organizational, and global health outcomes. The book helps engaging countries and stakeholders take action and commit to a digital health strategy, create a global environment and processes that will facilitate and induce collaboration, develop processes for monitoring and evaluating national digital health strategies, and enable

learnings to be shared in support of WHO's global strategy for digital health. The book explains different perspectives and local environments for digital health implementation, including data/information and technology governance, secondary data use, need for effective data interpretation, costly adverse events, models of care, HR management, workforce planning, system connectivity, data sharing and linking, small and big data, change management, and future vision. All proposed solutions are based on real-world scientific, social, and political evidence. • Provides a roadmap, based on examples already in place, to develop and implement digital health systems on a large-scale that are easily reproducible in different environments • Addresses World Health Organization (WHO)-identified research gaps associated with the feasibility and effectiveness of various digital health interventions • Helps readers improve future decision-making within a digital environment by detailing insights into the complexities of the health system • Presents evidence from real-world case studies from multiple countries to discuss new skills that suit new paradigms

Smart Computing

Proceedings of the 1st International Conference on Smart Machine Intelligence and Real-Time Computing (SmartCom 2020), 26-27 June 2020, Pauri, Garhwal, Uttarakhand, India

CRC Press The field of SMART technologies is an interdependent discipline. It involves the latest burning issues ranging from machine learning, cloud computing, optimisations, modelling techniques, Internet of Things, data analytics, and Smart Grids among others, that are all new fields. It is an applied and multi-disciplinary subject with a focus on Specific, Measurable, Achievable, Realistic & Timely system operations combined with Machine intelligence & Real-Time computing. It is not possible for any one person to comprehensively cover all aspects relevant to SMART Computing in a limited-extent work. Therefore, these conference proceedings address various issues through the deliberations by distinguished Professors and researchers. The SMARTCOM 2020 proceedings contain tracks dedicated to different areas of smart technologies such as Smart System and Future Internet, Machine Intelligence and Data Science, Real-Time and VLSI Systems, Communication and Automation Systems. The proceedings can be used as an advanced reference for research and for courses in smart technologies taught at graduate level.

Multimodal Transport Security

Frameworks and Policy Applications in Freight and Passenger Transport

Edward Elgar Publishing Rapid globalisation has led to the realization that the traditional modal approach to transporting people and goods is insufficient. Multimodal Transport Security illustrates the inevitable shift towards multimodal transportation systems, further enabled by modern technological innovations, and succinctly assesses the demanding and new security challenges that have accompanied this. The emergence of these complex transportation infrastructures has created exceedingly attractive terrorist targets owing to the potential for wide-scale disruption of global supply chains. Providing a conjoint analysis of key issues in both passenger and freight multimodal transportation security, expert contributors provide pivotal case studies highlighting the successes and failures of various policies and practices across several geographical regions. Adeptly drawing these strands together, the editors identify similarities and heterogeneities and in doing so, produce a practical illustration of the potential for further enhancement of multimodal security. An ever-increasing and worldwide concern with the improvement of security in transport places this unique and comprehensive text at the forefront of transportation literature. It will be of great value to students and scholars of public policy as well as policy makers in the fields of transportation and counter-terrorism.

The Open Classroom

Distance Learning in Schools

Routledge The 'e-revolution' that has swept the higher and further education sector over the last decade is now starting to make a real impact in school level teaching and learning around the world. There is a rapidly growing interest in, and demand for open and distance learning solutions for schools, not only in terms of improving access (for example, for the children of travellers, or for those in geographically remote areas) but also in terms of improving pedagogy for more 'conventional' teaching, by offering teachers, parents and pupils greater support and access to learning materials and resources. This ground-breaking book, with contributions from around the world including the UK, US, New Zealand, Canada and India, looks at the key areas of development in this new field, provides best practice examples and inspiring case studies and will increase the awareness of the opportunities and challenges in this potentially huge field.

Embedded Microprocessor Systems

IOS Press Embedded microprocessor systems are affecting our daily lives at a fast pace, mostly unrecognised by the general public. Most of us are aware of the part they are playing in increasing business efficiency through office applications such as personal computers, printers and copiers. Only a few people, however, fully appreciate the growing role of embedded systems in telecommunications and industrial environments, or even in everyday products like cars and home appliances. The challenge to engineers and managers is not only highlighted by the sheer size of the market, ' 1.5 billion microcontrollers and microprocessors are produced every year ' but also by the accelerating innovation in embedded systems towards higher complexity in hardware, software and tools as well as towards higher performance and lower consumption. To maintain competitiveness in this demanding environment, an optimum mix of innovation, time to market and system cost is required. Choosing the right options and strategies for products and companies is crucial and rarely obvious. In this book the editors have, therefore, skilfully brought together more than fifty contributions from some of the leading authorities in embedded systems. The papers are conveniently grouped in four sections.

Mobile Computing: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global "This multiple-volume publication advances the emergent field of mobile computing offering research on approaches, observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers"--Provided by publisher.

Ericsson Review

BIM Handbook

A Guide to Building Information Modeling for Owners, Designers, Engineers,

Contractors, and Facility Managers

[John Wiley & Sons](#) **Discover BIM: A better way to build better buildings** Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Wireless Data Services

Technologies, Business Models and Global Markets

[Cambridge University Press](#) **This book takes a deep look into why certain technologies, business models, and adoption strategies succeed while others fail, and how all these elements will impact the future of wireless communications.** With the help of examples, case studies and interviews with industry luminaries, the authors identify the key factors behind the success or failure of different blueprints and provide insights into strategies of matching wireless technology and services to global markets.

Design and Analysis of Wireless Networks

[Nova Publishers](#) **Summary: A compilation of articles that reviews the current design methodology and analytical models of wireless networks.**

Blockchain Applications for Healthcare Informatics

Beyond 5G

[Academic Press](#) **Blockchain Applications for Healthcare Informatics: Beyond 5G offers a comprehensive survey of 5G-enabled technology in healthcare applications. This book investigates the latest research in blockchain technologies and seeks to answer some of the practical and methodological questions surrounding privacy and security in healthcare. It explores the most promising aspects of 5G for healthcare industries, including how hospitals and healthcare systems can do better. Chapters investigate the detailed framework needed to maintain security and privacy in 5G healthcare services using blockchain technologies, along with case studies that look at various performance evaluation metrics, such as privacy preservation, scalability and healthcare legislation. Introduces the basic architecture and taxonomy of 5G-enabled blockchain technology Analyzes issues and challenges surrounding 5G-enabled blockchain-based systems in healthcare Investigates blockchain-based healthcare applications such as telemedicine, telesurgery, remote patient monitoring, networking of the Internet of Medical Things, and augmented and virtual reality tools for training in complex medical scenarios Includes case studies and real-world examples in each chapter to demonstrate the adoption of 5G-enabled blockchain technology across various healthcare domains**

Security in Computing and Communications

8th International Symposium, SSCC 2020, Chennai, India, October 14–17, 2020,
Revised Selected Papers

Springer Nature This book constitutes revised selected papers of the 8th International Symposium on Security in Computing and Communications, SSCC 2020, held in Chennai, India, in October 2020. Due to the COVID-19 pandemic the conference was held online. The 13 revised full papers and 8 revised short papers presented were carefully reviewed and selected from 42 submissions. The papers cover wide research fields including cryptography, database and storage security, human and societal aspects of security and privacy.

Software Radio Architecture

Object-Oriented Approaches to Wireless Systems Engineering

John Wiley & Sons A software radio is a radio whose channel modulation waveforms are defined in software. All wireless telephones are controlled by this software. Written by the leader in the field, this book covers the technology that will allow cellular telephones to greatly expand the types of data they can transmit.

People in Control

The Second International Conference on Human Interfaces in Control Rooms, Cockpits and Command Centres, 19-21 June 2001 : Venue, UMIST, Manchester, UK

Inst of Engineering & Technology This work contains the conference proceedings from the 2nd International Conference on Human Interfaces in Control Rooms, Cockpits and Command Centres (PIC 2001).

Insights Into Mobile Multimedia Communications

Morgan Kaufmann Describes the state-of-the-art in digital multimedia communications. This text presents an integrated view of advanced radio systems, network architectures and source coding.

Mobile Telemedicine

A Computing and Networking Perspective

CRC Press The concept of medical treatment from a distance (in absentia care) is actually quite ancient, dating back to tribal days where smoke signals were used to warn of serious disease in a community. Nowadays, telemedicine is used to facilitate treatment in rural areas, where the nearest doctor is miles away, through various forms of information

technology, including videoconferencing and digital imaging. It can also be used to conveniently monitor chronically ill patients through electronic devices so that they can enjoy a better quality of life. But despite the strides that have been made in utilizing the telemedicine technology, there remain a number of limitations and weaknesses that must be overcome before this treatment paradigm can reach its full potential. In *Mobile Telemedicine: A Computing and Network Perspective*, noted computer scientists Yang Xiao and Hui Chen examine those computing and networking dilemmas arising from wireless and mobile telemedicine. Comprised of the contributions of many prominent international researchers, the book discusses the relative merits and limitations of the existing technology and sheds light on future developments. It begins with a discussion of patient care and monitoring through items such as personal alarm systems. It then reviews the current methods available to monitor cardiac and diabetic patients, analyzes the security and privacy considerations that arise with respect to the transmission of sensitive information, and examines issues relating to networking support. Finally, it concludes with a section on the opportunities and challenges faced by those involved at this intersection of healthcare and communications. By bridging the fields of medicine and information technology, this volume serves as a useful springboard for those pioneering IT researchers looking for a comprehensive reference. The book also provides information for those involved with either communications or healthcare who want to learn about the current state and potential use of this technology.

Yearbook of International Organizations 2013-2014

Organization Descriptions and Cross-references

Brill Academic Pub **Volume 1 (A and B) of the Yearbook of International Organizations covers international organizations throughout the world, comprising their aims, activities and events**

From GSM to LTE-Advanced

An Introduction to Mobile Networks and Mobile Broadband

John Wiley & Sons **This revised edition of Communication Systems from GSM to LTE: An Introduction to Mobile Networks and Mobile Broadband Second Edition (Wiley 2010) contains not only a technical description of the different wireless systems available today, but also explains the rationale behind the different mechanisms and implementations; not only the 'how' but also the 'why'. In this way, the advantages and also limitations of each technology become apparent. Offering a solid introduction to major global wireless standards and comparisons of the different wireless technologies and their applications, this edition has been updated to provide the latest directions and activities in 3GPP standardization up to Release 12, and importantly includes a new chapter on Voice over LTE (VoLTE). There are new sections on Building Blocks of a Voice Centric Device, Building Blocks of a Smart Phone, Fast Dormancy, IMS and High-Speed Downlink Packet Access, and Wi-Fi-Protected Setup. Other sections have been considerably updated in places reflecting the current state of the technology. • Describes the different systems based on the standards, their practical implementation and design assumptions, and the performance and capacity of each system in practice is analyzed and explained • Questions at the end of each chapter and answers on the accompanying website make this book ideal for self-study or as course material**