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Theory, Simulation and Deployment Cambridge University Press

Recentemente, tem sido observado um crescimento explosivo na utilização de redes de acesso local sem fio (Wireless Local Area Networks WLANs), utilizando equipamentos de nível de radiação restrito operando em bandas independentes de outorga de uso de rádio frequência, tanto para uso corporativo como doméstico e para prover acesso pago em ambientes públicos como aeroportos, hotéis, centros de convenções, campi universitários e mesmo restaurantes e cafés. Se estas redes serão complementares ou competidoras das redes celulares de terceira e quarta gerações é ainda uma questão polêmica e aberta. Os objetivos deste trabalho são o desenvolvimento um modelo de propagação de sinais na faixa de frequência de 2,4 GHz em ambientes fechados (indoor), para a previsão de cobertura de WLANs, e prover ao projetista de redes wireless uma metodologia um bom dimensionamento da rede. São apresentados os principais modelos semi-empíricos já existentes na literatura técnica e, a partir de medidas realizadas em diferentes ambientes, é proposto um ajuste de parâmetros de um modelo de propagação indoor bastante completo. As medidas realizadas incluem as perdas de penetração em paredes de diferentes materiais, o efeito de difração em quinas de paredes, efeito de movimentação de pessoas no ambiente, além do coeficiente de perda de propagação com a distância. Os modelos desenvolvidos foram implementados numa ferramenta de software para o planejamento de cobertura de redes wireless indoor que permite realizar o projeto a partir da planta baixa do ambiente disponibilizada em arquivos de imagem.

Indoor Radio Planning Information Gatekeepers Inc

Constraints have emerged as the basis of a representational and computational paradigm that draws from many disciplines and can be brought to bear on many problem domains. This volume contains papers dealing with all aspects of computing with constraints. In particular, there are several papers on applications of constraints, reflecting the practical usefulness of constraint programming. The papers were presented at the 1998 International Conference on Principles and Practice of Constraint Programming (CP'98), held in Pisa, Italy, 26-30 October, 1998. It is the fourth in this series of conferences, following conferences in Cassis (France), Cambridge (USA), and Schloss Hagenberg (Austria). We received 115 high quality submissions. In addition, 7 abstract submissions were not followed by a full paper, hence were not counted as submissions. The program committee selected 29 high quality papers after thorough refereeing by at least 3 experts and further discussion by committee members. We thank the referees and the program committee for the time and effort spent in reviewing the papers. The program committee invited three speakers: { Joxan Jararica { Peter Jeavons { Patrick Prosser Their papers are in this volume.

Artificial Intelligence and Computational Intelligence John Wiley & Sons

This book is a collection of selected papers from the 2011 International Conference on Communications, Electronics and Automation Engineering held in Xi'an, China, August 23-25, 2012. It presents some of the latest research findings in a broad range of interdisciplinary fields related to communications, electronics and automation engineering. Specific emphasis is placed on the following topics: automation control, data mining and statistics, simulation and mathematical modeling, human factors and cognitive engineering, web technology, optimization and algorithm, and network communications. The prime objective of the book is to familiarize the readers with cutting edge developments in the research of electronics and automation engineering with a variety of applications. Hopefully, the book can help researchers to identify research trends in many areas, to learn the new methods and tools, and to spark innovative ideas.

A Guide to the Wireless Engineering Body of Knowledge (WEBOK) Wiley

A comprehensive introduction to the basic principles, design techniques and analytical tools of wireless communications.

Inclusive Radio Communications for 5G and Beyond European Alliance for Innovation

IMDC-SDSP conference offers an exceptional platform and opportunity for practitioners, industry experts, technocrats, academics, information scientists, innovators, postgraduate students, and research scholars to share their experiences for the advancement of knowledge and obtain critical feedback on their work. The timing of this conference coincides with the rise of Big Data, Artificial Intelligence powered applications, Cognitive Communications, Green Energy, Adaptive Control and Mobile Robotics towards maintaining the Sustainable Development and Smart Planning and management of the future technologies. It is aimed at the knowledge generated from the integration of the different data sources related to a number of active real-time applications in supporting the smart planning and enhance and sustain a healthy environment. The conference also covers the rise of the digital health, well-being, home care, and patient-centred era for the benefit of patients and healthcare providers; in addition to how supporting the development of a platform of smart Dynamic Health Systems and self-management.

A Simulation-Aided Introduction with VisSim/Comm CRC Press

Why is high performance indoor wireless service needed, and how is it best implemented? As the challenge of providing better service and higher data speeds and quality for mobile applications intensifies, ensuring adequate in-building and tunnel coverage and capacity is increasingly important. A unique, single-source reference on the theoretical and practical knowledge behind indoor and tunnel radio planning, this book provides a detailed overview of mobile networks systems, coverage and capacity solutions with 2G, 3G and 4G cellular system technologies as a backdrop.

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Wireless Communications John Wiley & Sons

Why is indoor coverage needed, and how it is best implemented? As the challenge of providing higher data speeds and quality for mobile applications intensifies, ensuring adequate in-building and tunnel coverage and capacity is increasingly important. A unique, single-source reference on the theoretical and practical knowledge behind indoor and tunnel radio planning, Indoor Radio Planning, Second Edition provides an overview of mobile networks systems and coverage solutions with GSM, UMTS, HSPA and LTE cellular systems technologies as a backdrop. All of the available solutions, from basic passive distributed antenna systems (DAS) through to advanced fiber optic systems supporting MIMO and LTE, are discussed in detail to give the reader a good understanding. In addition, there is a section covering multi-operator systems, as this becomes a more and more utilized approach. Systematically moving from the basic considerations through to advanced indoor planning, aspects such as upgrading passive DAS from 2G to 3G, noise analysis, link budgets, traffic calculations and software tools that can be used to help create in-building designs are also covered. Femtocells, outdoor DAS and tunnel radio planning are newly included in this edition. • A new version of the bestseller, updated with an introduction to LTE and treatments of modulation principle, DAS systems for MIMO/LTE, designing repeater systems and elevator coverage • Addresses the challenge of providing coverage inside train, and high speed rail • Outlines the key parameters and metrics for designing DAS for GSM, DCS, UMTS, HSPA & LTE • Essential reading for engineering and planning personnel at mobile operators, also giving a sound grounding in indoor radio planning for equipment manufacturers • Written by a leading practitioner in the field with more than 20 years of practical experience

Wireless Networking: Know It All IGI Global

This book describes the technology used for effective sensing of our physical world and intelligent processing techniques for sensed information, which are essential to the success of Internet of Things (IoT). The authors provide a multidisciplinary view of sensor technology from materials, process, circuits, and big data domains and showcase smart sensor systems in real applications including smart home, transportation, medical, environmental, agricultural, etc. Unlike earlier books on sensors, this book provides a "global" view on smart sensors covering abstraction levels from device, circuit, systems, and algorithms.

Wireless Telecommunications Cambridge University Press

This book highlights cutting-edge research into emergency early warning management and decision-making for severe accidents. Using toxic gas leakages as examples, it puts forward new design methods for emergency early warning systems, as well as a systematic description of emergency early warning information communication mechanisms and characteristics of regional evacuation, based on a wide range of theories, including safety engineering, information engineering, communication, behaviorology and others. The book applies a range of methods, such as case analysis, questionnaire interviews, and multi-objective optimization modeling. Drawing on this basis, it subsequently proposes a multi-objective optimization modeling and algorithm for emergency path selection, together with an evacuation risk assessment method. Divided into six chapters prepared by an international team of researchers, the book addresses the design of early warning systems, communication and dissemination mechanisms of early warning information, characteristics of regional evacuation, multi-objective optimization of emergency paths, and evacuation risk assessment. The book offers an essential reference guide for engineering technicians and researchers in a wide range of fields, including emergency management, safety science and engineering, disaster relief engineering, and transportation optimization, as well as graduate students in related majors at colleges and universities.

Wireless Internet Of Things: Principles And Practice Springer Nature

Indoor Wireless Communications: From Theory to Implementation provides an in-depth reference for design engineers, system planners and post graduate students interested in the vastly popular field of indoor wireless communications. It contains wireless applications and services for in-building scenarios and knowledge of key elements in the design and implementation of these systems. Technologies such as Wireless Local Area Networks, Bluetooth, ZigBee, Indoor Optical Communications, WiMAX, UMTS and GSM for indoor environments are fully explained and illustrated with examples. Antennas and propagation issues for in-building scenarios are also discussed, emphasizing models and antenna types specifically developed for indoor communications. An exhaustive survey on indoor wireless communication equipment is also presented, covering all available technologies including antennas, distribution systems, transceivers and base stations.

Industry 4.0 - Shaping The Future of The Digital World Springer Science & Business Media

Why is high performance indoor wireless service needed, and how is it best implemented? As the challenge of providing better service and higher data speeds and quality for mobile applications intensifies, ensuring adequate in-building and tunnel coverage and capacity is increasingly important. A unique, single-source reference on the theoretical and practical knowledge behind indoor and tunnel radio planning, this book provides a detailed overview of mobile networks systems, coverage and capacity solutions with 2G, 3G and 4G cellular system technologies as a backdrop.

Brain Informatics John Wiley & Sons

This book discusses online engineering and virtual instrumentation, typical working areas for today's engineers and inseparably connected with areas such as Internet of Things, cyber-physical systems, collaborative networks and grids, cyber cloud technologies, and service architectures, to name just a few. It presents the outcomes of the 14th International Conference on Remote Engineering and Virtual Instrumentation (REV2017), held at Columbia University in New York from 15 to 17 March 2017. The conference addressed fundamentals, applications and experiences in the field of online engineering and virtual instrumentation in the light of growing interest in and need for teleworking, remote services and collaborative working environments as a result of the globalization of education. The book also discusses guidelines for education in university-level courses for these topics.

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Proceedings of the 14th International Conference on Remote Engineering and Virtual Instrumentation REV 2017, held 15-17 March 2017, Columbia University, New York, USA Springer Nature

This volume proceedings contains revised selected papers from the 4th International Conference on Artificial Intelligence and Computational Intelligence, AICI 2012, held in Chengdu, China, in October 2012. The total of 163 high-quality papers presented were carefully reviewed and selected from 724 submissions. The papers are organized into topical sections on applications of artificial intelligence, applications of computational intelligence, data mining and knowledge discovery, evolution strategy, expert and decision support systems, fuzzy computation, information security, intelligent control, intelligent image processing, intelligent information fusion, intelligent signal processing, machine learning, neural computation, neural networks, particle swarm optimization, and pattern recognition.

Architectures, Algorithms and Applications John Wiley & Sons

Indoor Wireless Communications From Theory to Implementation John Wiley & Sons

Interior, Environment, and Related Agencies Appropriations for 2007 Media Digital

The book presents innovations in green computing technologies. A large number of computing devices and cellular phones being produced and discarded is hurtling us toward a global environmental disaster. In the last fifty years, the earth has experienced rapid changes in climate, increasingly severe droughts, rising seawater levels, seawater acidification, increased depletion of groundwater reserves, and the global rise of temperature. Green computing technologies are crucial in protecting our universe from environmental hazards and pollution. Over four sections, this book examines green computing industries and technologies. Chapters cover such topics as wideband systems, Internet connectivity, the environment, and more.

Official Gazette of the United States Patent and Trademark Office BoD - Books on Demand

This volume constitutes the refereed post-conference proceedings of the 11th International Conference on Simulation Tools and Techniques, SIMUTools 2019, held in Chengdu, China, in August 2019. The 97 revised full papers were carefully selected from 156 submissions. The papers focus on simulation methods, simulation techniques, simulation software, simulation performance, modeling formalisms, simulation verification and widely used frameworks.

14th International Conference, BI 2021, Virtual Event, September 17-19, 2021, Proceedings Elsevier

This book constitutes the refereed proceedings of the 14th International Conference on Brain Informatics, BI 2021, held in September 2021. The conference was held virtually due to the COVID-19 pandemic. The 49 full and 2 short papers together with 18 abstract papers were carefully reviewed and selected from 90 submissions. The papers are organized in the following topical sections: cognitive and computational foundations of brain science; investigations of human information processing systems; brain big data analytics, curation and management; informatics paradigms for brain and mental health research; and brain-machine intelligence and brain-inspired computing.

Bluetooth and Other Technologies Springer Science & Business Media

The WLAN is a preferred choice of technology for internet connection in the building environment. The indoor models, reported in the literature are mostly studied in the 900 MHz band of cellular standard and quite scarce in the 2.4 GHz frequency band of WLAN 802.11 standard. The frequency band is also dedicated for the WiMAX technology in which deployment in the office environment is essential. In this thesis, the semi-empirical indoor Multi Wall Classic Extended (MWCE) channel model is proposed. The model is compared and evaluated with the empirical OS and other semi-empirical Multi Wall models obtained from the literature; the Multi Wall Classic (MWC) and Multi Wall Linear (MWL). The models are evaluated based on the accuracy of prediction at two floors of office environment in one of the telecommunication company building. The validity of the proposed model is evaluated through comparison with different models of similar type from the literature. The optimized model coefficients for all models, particularly for the wood/glass and brick/concrete the common wall obstacles in the building, are found. The behavior and characterization of all the models studied are investigated by evaluating the variation of the prediction error at several locations of the same propagation condition. The prediction from the MWCE model is significantly improved compared to the OS model. The MWCE model is also observed to have a high and consistent accuracy prediction, comparable with the MWC and MWL models. The accuracy of the MWCE model is also shown to compare closely with different models of similar type from the literature. With simple formulation without invoking too many details and high consistent accuracy prediction, the proposed MWCE model is suitable for prediction of WLAN signal in the indoor environment to be incorporated in the software planning tool.

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REVIEW OF INDOOR PLANNING SOFTWARE WIRELESS INDOOR PLANNING SOLUTIONS

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