Low-Power Wireless Infrared Communications

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Low Power Wireless Infrared Communications:

Low-Power Wireless Infrared Communications Rob Otte,Leo P. de Jong,Arthur H.M. van Roermund,2013-04-17 Today wireless infrared transmission has entered our homes offices industry and health care with applications in the field of remote control telemetry and local communication This book is about the underlying technology As it is an outgrowth of my Ph D thesis the emphasis is on fundamental aspects rather than industrial aspects like the standardization effort by the IrDA 7 I guess that this is not a drawback as eventually the laws of physics apply to all of us As the applied radiation is not necessarily in the infrared throughout the book we usually prefer the term optical transmission As most equipment is battery powered the emphasis is on power optimiza tion of the optical transmission system System parameters as well as environ mental parameters that determine the eventual transmission quality are iden tified to facilitate well reasoned system design Many design rules based on calculations measurements and simulations are presented to help the designer push the performance close to the limits set by nature and the available tech nology The first chapters introduce the subject and the present the scope of the book Then the basic transmission link is introduced in chapter 3 and strate gies to optimize its signal to noise ratio are discussed Lighting flicker is identi fied as a possible source of interference Then receiver noise and bandwidth are discussed in chapter 4 mainly based on the material presented in 66 67 69 **Low-Power Wireless Infrared Communications** Rob Otte,Leo P. De Jong,Arthur Van Roermund,2014-01-15 **Wireless Infrared Communications** John R. Barry,2012-10-08 The demand for wireless access to network services is growing in virtually all communications and computing applications Once accustomed to unteathered opera tion users resent being tied to a desk or a fixed location but will endure it when there is some substantial benefit such as higher resolution or bandwidth Recent technolog ical advances however such as the scaling of VLSI the development of low power circuit design techniques and architectures increasing battery energy capacity and advanced displays are rapidly improving the capabilities of wireless devices Many of the technological advances contributing to this revolution pertain to the wireless medium itself There are two viable media radio and optical In radio spread spectrum techniques allow different users and services to coexist in the same bandwidth and new microwave frequencies with plentiful bandwidth become viable as the speed of the supporting low cost electronics increases Radio has the advantage of being available ubiquitously indoors and outdoors with the possibility of a seam less system infrastructure that allows users to move between the two There are unan swered but likely to be benign biological effects of microwave radiation at higher power densities Optical communications is enhanced by advances in photonic devices such as semiconductor lasers and detectors Optical is primarily an indoor technology where it need not compete with sunlight and offers advantages such as the immediate availability of a broad bandwidth without the need for regulatory approval

Optical Wireless Communications Roberto Ramirez-Iniguez,Sevia M. Idrus,Ziran Sun,2008-04-03 Over the last three decades interest in Infrared IR technology as a medium to convey information has grown considerably This is reflected by the

increasing number of devices such as laptops PDAs and mobile phones that incorporate optical wireless transceivers and also by the increasing number of optical wireless links available for indoor and **Wireless Optical Communication Systems** Steve Hranilovic,2006-01-16 This volume addresses the problem of designing efficient signalling and provides a link between the areas of communication theory and modem design for amplitude constrained linear optical intensity channel It provides practical guidelines for the design of signalling sets for wireless optical intensity channels **The Fifth Generation (5G) of Wireless Communication** Ahmed Kishk,2019 The Fifth Generation 5G of Wireless Communication is a collection of reviewed and relevant research chapters offering a comprehensive overview of recent developments in the field of Electrical and Electronic Engineering The book comprises single chapters authored by various researchers and edited by an expert active in the Electrical and Electronic Engineering research area All chapters are complete in itself but united under a common research study topic This publication aims at providing a thorough overview of the latest research efforts by international authors on the fifth generation 5G of wireless communication and open new possible research paths for further novel developments Power-efficient Coded Modulation for Wireless Infrared Communication David Chien Min Lee,1998 **Numerical Analysis** Jan Awrejcewicz,2011-09-09 Numerical Analysis Theory and Application is an edited book divided into two parts Part I devoted to Theory and Part II dealing with Application The presented book is focused on introducing theoretical approaches of numerical analysis as well as applications of various numerical methods to either study or solving numerous theoretical and engineering problems Since a large number of pure theoretical research is proposed as well as a large amount of applications oriented numerical simulation results are given the book can be useful for both theoretical and applied research aimed on numerical simulations In addition in many cases the presented approaches can be applied directly either by theoreticians or engineers **Handbook of Algorithms for Wireless Networking and Mobile Computing** Azzedine Boukerche,2005-11-28 The Handbook of Algorithms for Wireless Networking and Mobile Computing focuses on several aspects of mobile computing particularly algorithmic methods and distributed computing with mobile communications capability It provides the topics that are crucial for building the foundation for the design and construction of future generations of mobile and wireless networks including cellular wireless ad hoc sensor and ubiquitous networks Following an analysis of fundamental algorithms and protocols the book offers a basic overview of wireless technologies and networks Other topics include issues related to mobility aspects of QoS provisioning in wireless networks future applications and much more UWB Communication Systems Maria-Gabriella Di Benedetto,2006 Ultrawideband UWB communication systems offer an unprecedented opportunityto impact the future communication world The enormous available bandwidth the wide scope of the data rate rangetrade off as well as the potential for very low cost operation leading topervasive usage all present a unique opportunity for UWB systems to impactthe way people and intelligent machines communicate and interact with theirenvironment The aim of this book is to provide an overview of the state of the art of UWBsystems from

theory to applications Due to the rapid progress of multidisciplinary UWB research such an overviewcan only be achieved by combining the areas of expertise of severalscientists in the field More than 30 leading UWB researchers and practitioners have contributed tothis book covering the major topics relevant to UWB These topics includeUWB signal processing UWB channel measurement and modeling higher layerprotocol issues spatial aspects of UWB signaling UWB regulation andstandardization implementation issues and UWB applications as well aspositioning The book is targeted at advanced academic researchers wireless designers and graduate students wishing to greatly enhance their knowledge of allaspects of UWB systems **Visible Light Communication** Shlomi Arnon,2015-03-05 Visible light communication VLC is an evolving communication technology for short range applications Exploiting recent advances in the development of high power visible light emitting LEDs VLC offers an energy efficient clean alternative to RF technology enabling the development of optical wireless communication systems that make use of existing lighting infrastructure Drawing on the expertise of leading researchers from across the world this concise book sets out the theoretical principles of VLC and outlines key applications of this cutting edge technology Providing insight into modulation techniques positioning and communication synchronisation and industry standards as well as techniques for improving network performance this is an invaluable resource for graduate students and researchers in the fields of visible light communication optical wireless communication and industrial practitioners in the field of telecommunications **Advanced Trends in Wireless Communications** Mutamed Khatib,2011-02-17 Physical limitations on wireless communication channels impose huge challenges to reliable communication Bandwidth limitations propagation loss noise and interference make the wireless channel a narrow pipe that does not readily accommodate rapid flow of data Thus researches aim to design systems that are suitable to operate in such channels in order to have high performance quality of service Also the mobility of the communication systems requires further investigations to reduce the complexity and the power consumption of the receiver This book aims to provide highlights of the current research in the field of wireless communications The subjects discussed are very valuable to communication researchers rather than researchers in the wireless related areas The book chapters cover a wide range of wireless communication topics Electronics, Communications and Networks IV Amir Hussain,Mirjana Ivanovic,2015-07-01 The 4th International Conference on Electronic Communications and Networks CECNet2014 inherits the fruitfulness of the past three conferences and lays a foundation for the forthcoming next year in Shanghai CECNet2014 was hosted by Hubei University of Science and Technology China with the main objective of providing a comprehensive global forum for experts and participants from acadamia to exchange ideas and presenting results of ongoing research in the most state of the art areas of Consumer Electronics Technology Communication Engineering and Technology Wireless Communications Enginneering and Technology and Computer Engineering and Technology In this event 13 famous scholars and Engineers have delivered the keynote speeches on their latest research including Prof Vijaykrishnan Narayanan a Fellow of the Institute

of Electrical and ElectronicsEngineers Prof Han Chieh Chao the Director of the Computer Center for Ministry of Education Taiwan from September 2008 to July 2010 Prof Borko Furht the founder of the Journal of Multimedia Tools and Applications Prof Kevin Deng who served as Acting Director of Hong Kong APAS R D Center in 2010 and Prof Minho Jo the Professor of Department of Computer and Information Science Korea University   *Selected Papers from the 5th International Electronic Conference on Sensors and Applications* Francisco Falcone,Stefano Mariani,Francesco Ciucci,Dirk Lehmhus,Thomas B. Messervey,Alberto Vallan,Stefan Bosse,2020-12-29 This Special Issue comprises selected papers from the proceedings of the 5th International Electronic Conference on Sensors and Applications held on 15 30 November 2018 on sciforum net an online platform for hosting scholarly e conferences and discussion groups In this 5th edition of the electronic conference contributors were invited to provide papers and presentations from the field of sensors and applications at large resulting in a wide variety of excellent submissions and topic areas Papers which attracted the most interest on the web or that provided a particularly innovative contribution were selected for publication in this collection These peer reviewed papers are published with the aim of rapid and wide dissemination of research results developments and applications We hope this conference series will grow rapidly in the future and become recognized as a new way and venue by which to electronically present new developments related to the field of sensors and their applications   *MSP430-based Robot Applications* Dan Harres,2013-02-22 This book provides a careful explanation of the basic areas of electronics and computer architecture along with lots of examples to demonstrate the interface sensor design programming and microcontroller peripheral setup necessary for embedded systems development With no need for mechanical knowledge of robots the book starts by demonstrating how to modify a simple radio controlled car to create a basic robot The fundamental electronics of the MSP430 are described along with programming details in both C and assembly language and full explanations of ports timing and data acquisition Further chapters cover inexpensive ways to perform circuit simulation and prototyping Key features include Thorough treatment of the MSP430 s architecture and functionality along with detailed application specific guidance Programming and the use of sensor technology to build an embedded system A learn by doing experience With this book you will learn The basic theory for electronics design Analog circuits Digital logic Computer arithmetic Microcontroller programming How to design and build a working robot Assembly language and C programming How to develop your own high performance embedded systems application using an on going robotics application Teaches how to develop your own high performance embedded systems application using an on going robotics application Thorough treatment of the MSP430 s architecture and functionality along with detailed application specific guidance Focuses on electronics programming and the use of sensor technology to build an embedded system Covers assembly language and C programming   **Handbook of Signal Processing Systems** Shuvra S. Bhattacharyya,Ed F. Deprettere,Rainer Leupers,Jarmo Takala,2010-09-10 It gives me immense pleasure to introduce this timely handbook to the research velopment communities in the eld of signal processing

systems SPS This is the rst of its kind and represents state of the arts coverage of research in this eld The driving force behind information technologies IT hinges critically upon the major advances in both component integration and system integration The major breakthrough for the former is undoubtedly the invention of IC in the 50 s by Jack S Kilby the Nobel Prize Laureate in Physics 2000 In an integrated circuit all components were made of the same semiconductor material Beginning with the pocket calculator in 1964 there have been many increasingly complex applications followed In fact processing gates and memory storage on a chip have since then grown at an exponential rate following Moore s Law Moore himself admitted that Moore s Law had turned out to be more accurate longer lasting and deeper in impact than he ever imagined With greater device integration various signal processing systems have been realized for many killer IT applications Further breakthroughs in computer sciences and Internet technologies have also catalyzed large scale system integration All these have led to today s IT revolution which has profound impacts on our lifestyle and overall prospect of humanity It is hard to imagine life today without mobiles or Internets The success of SPS requires a well concerted integrated approach from mul ple disciplines such as device design and application *An Introduction to Optical Wireless Mobile Communication* Harald Haas,Mohamed Sufyan Islim,Cheng Chen,Hanaa Abumarshoud,2021-09-30 The use of the optical spectrum for wireless communications has gained significant interest in recent years Applications range from low rate simplex transmission links using existing embedded CMOS cameras in smartphones referred to as optical camera communications OCC mobile light fidelity LiFi networking in homes offices urban and sub sea environments to free space gigabit interconnects in data centers and point to point long range wireless backhaul links outdoors and in space This exciting book focuses on the use of optical wireless communications OWC for mobile use cases The book discusses existing conventional radio frequency RF based wireless access technology and presents the challenges that can impact the requirements of the future wave of new wireless services in the context of artificial intelligence AI driven autonomous systems and machine type communications The relationship between visible light communications VLC and light fidelity LiFi is explored and the major advantages of VLC and LiFi such as security and data density and discuss existing research challenges are also introduced Channel modeling techniques are provided for mobile multiuser scenarios and will introduce key building blocks to achieve LiFi cellular networks achieving orders of magnitude improvements of area spectral efficiency compared to state of the art Challenges that arise from moving from a static point to point visible light link to a LiFi network that is capable of serving hundreds of mobile and fixed nodes are discussed An overview of recent standardization activities and the commercialization challenges of this disruptive technology is also provided **New Knowledge in Information Systems and Technologies** Álvaro Rocha,Hojjat Adeli,Luís Paulo Reis,Sandra Costanzo,2019-03-29 This book includes a selection of articles from The 2019 World Conference on Information Systems and Technologies WorldCIST 19 held from April 16 to 19 at La Toja Spain WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations current

trends professional experiences and challenges in modern information systems and technologies research together with their technological development and applications The book covers a number of topics including A Information and Knowledge Management B Organizational Models and Information Systems C Software and Systems Modeling D Software Systems Architectures Applications and Tools E Multimedia Systems and Applications F Computer Networks Mobility and Pervasive Systems G Intelligent and Decision Support Systems H Big Data Analytics and Applications I Human Computer Interaction J Ethics Computers K Health Informatics L Information Technologies in Education M Information Technologies in Radiocommunications and N Technologies for Biomedical Applications *Natural and Artificial Computation in Engineering and Medical Applications* Jose Manuel Ferrandez Vicente,Jose Ramon Alvarez Sanchez,Felix de la Paz Lopez,Fco. Javier Toledo Moreo,2013-06-03 The two volume set LNCS 7930 and LNCS 7931 constitutes the refereed proceedings of the 5th International Work Conference on the Interplay between Natural and Artificial Computation IWINAC 2013 held in Mallorca Spain in June 2013 The 92 revised full papers presented in LNCS 7930 and LNCS 7931 were carefully reviewed and selected from numerous submissions The first part LNCS 7930 entitled Natural and Artificial Models in Computation and Biology includes all the contributions mainly related to the methodological conceptual formal and experimental developments in the fields of neurophysiology and cognitive science The second part LNCS 7931 entitled Natural and Artificial Computation in Engineering and Medical Applications contains the papers related to bioinspired programming strategies and all the contributions related to the computational solutions to engineering problems in different application domains specially Health applications including the CYTED Artificial and Natural Computation for Health CANS research network papers In addition this two volume set reflects six interesting areas cognitive robotics natural computing wetware computation quality of life technologies biomedical and industrial perception applications and Web intelligence and neuroscience

Agriculture 5.0 Latief Ahmad,Firasath Nabi,2021-03-24 Agriculture 5 0 Artificial Intelligence IoT Machine Learning provides an interdisciplinary integrative overview of latest development in the domain of smart farming It shows how the traditional farming practices are being enhanced and modified by automation and introduction of modern scalable technological solutions that cut down on risks enhance sustainability and deliver predictive decisions to the grower in order to make agriculture more productive An elaborative approach has been used to highlight the applicability and adoption of key technologies and techniques such WSN IoT AI and ML in agronomic activities ranging from collection of information analysing and drawing meaningful insights from the information which is more accurate timely and reliable It synthesizes interdisciplinary theory concepts definitions models and findings involved in complex global sustainability problem solving making it an essential guide and reference It includes real world examples and applications making the book accessible to a broader interdisciplinary readership This book clarifies hoe the birth of smart and intelligent agriculture is being nurtured and driven by the deployment of tiny sensors or AI ML enabled UAV s or low powered Internet of Things setups for the

sensing monitoring collection processing and storing of the information over the cloud platforms This book is ideal for researchers academics post graduate students and practitioners of agricultural universities who want to embrace new agricultural technologies for Determination of site specific crop requirements future farming strategies related to controlling of chemical sprays yield price assessments with the help of AI ML driven intelligent decision support systems and use of agri robots for sowing and harvesting The book will be covering and exploring the applications and some case studies of each technology that have heavily made impact as grand successes The main aim of the book is to give the readers immense insights into the impact and scope of WSN IoT AI and ML in the growth of intelligent digital farming and Agriculture revolution 5 0 The book also focuses on feasibility of precision farming and the problems faced during adoption of precision farming techniques its potential in India and various policy measures taken all over the world The reader can find a description of different decision support tools like crop simulation models their types and application in PA Features Detailed description of the latest tools and technologies available for the Agriculture 5 0 Elaborative information for different type of hardware platforms and machine learning techniques for use in smart farming Elucidates various types of predictive modeling techniques available for intelligent and accurate agricultural decision making from real time collected information for site specific precision farming Information about different type of regulations and policies made by all over the world for the motivation farmers and innovators to invest and adopt the AI and ML enabled tools and farming systems for sustainable production

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