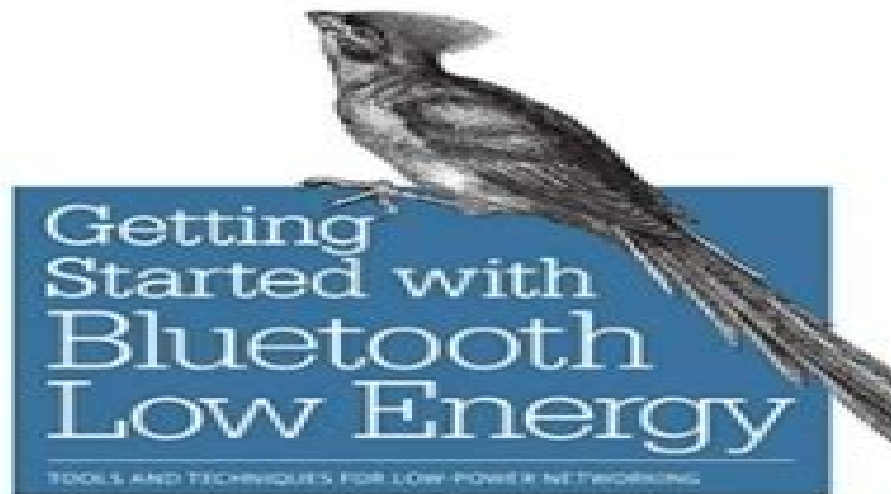


## Getting Started with Bluetooth Low Energy: Tools and Techniques for Low-Power Networking

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*Getting Started with Bluetooth Low Energy* ,2014 [Building Applications with iBeacon](#) Matthew S. Gast, 2014-09-26 High precision location information is increasingly useful for mobile application developers since it allows devices to interact with the world around them This practical book shows you how to achieve arm s reach accuracy with iBeacons simple transmitters that enable your applications to react to nearby surroundings and then deliver timely relevant information especially indoors where GPS and cell service are inaccurate Whether you re enabling a map giving users directions creating a game recommending purchases letting users check in or creating an immersive experience you ll learn how iBeacons provide precise location information empowering your applications to engage and interact with users nearby Get examples of several application types you can build with iBeacons Learn how iBeacons provide

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**Trade Perspectives in the Context of Safety, Security, Privacy and Loyalty** Blaženka Knežević, Sanda Renko, 2019-01-23 This book represents the work of a team of theorists and practitioners from various Central and Eastern European countries who offer a multidisciplinary approach to security and safety issues which companies in international and domestic trade as well as consumers are facing nowadays Contributions range from the topics of terrorism and piracy various aspects of theft and theft prevention to the challenges of security and privacy in electronic and mobile commerce Therefore the book is a powerful resource in solving problems because it not only considers security privacy and ethical issues among others but also discusses how to prevent them before they occur

Contact Tracing in Post-Covid World Pranab Chakraborty, Subhamoy Maitra, Mridul Nandi, Suprita Talnikar, 2020-11-16 This book discusses the state of the art techniques in the domain of contact tracing applications Well known in the field of medical science this topic has received attention from governments industries and academic communities due to the COVID 19 pandemic This book provides a link between new proposals related to contact tracing applications and a contextual literature review primarily from the cryptologic viewpoint As these applications are related to security and privacy of individuals analyzing them from cryptologic viewpoint is of utmost importance Therefore present developments from cryptologic aspects of most proposals around the world including Singapore Europe USA Australia and India have been discussed Providing an in depth study on the design rationale of each protocol this book is of value to researchers students and professionals alike

**Protocols and Applications for the Industrial Internet of Things** González García, Cristian, García-Díaz, Vicente, García-Bustelo, B. Cristina Pelayo, Lovelle, Juan Manuel Cueva, 2018-04-13 The Internet of Things IoT has become a major influence on the development of new technologies and innovations When utilized properly these applications can enhance business functions and make them easier to perform Protocols and Applications for the Industrial Internet of Things discusses and addresses the difficulties challenges and applications of IoT in industrial processes and production and work life Featuring coverage on a broad range of topics such as industrial process control machine learning and data mining this book is geared toward academicians computer engineers students researchers and professionals seeking current and relevant research on applications of the IoT

*Smart Sensors Networks* Fatos Xhafa, Fang-Yie Leu, Li-Ling Hung, 2017-06-14 Smart Sensors Networks Communication Technologies and Intelligent Applications explores the latest sensor and sensor networks techniques and applications showing how networked wireless sensors are used to monitor and gather intelligence from our surrounding environment It provides a systematic look at the unique characteristics of wireless sensor networks through their usage in a broad range of areas including healthcare for the elderly energy consumption industrial automation intelligent transportation systems smart

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*Implementing Data Analytics and Architectures for Next Generation Wireless Communications* Bhatt, Chintan,Kumar, Neeraj,Bashir, Ali Kashif,Alazab, Mamoun,2021-08-13 Wireless communication is continuously evolving to improve and be a part of our daily communication This leads to improved quality of services and applications supported by networking technologies We are now able to use LTE LTE Advanced and other emerging technologies due to the enormous efforts that are made to improve the quality of service in cellular networks As the future of networking is uncertain the use of deep learning and big data analytics is a point of focus as it can work in many capacities at a variety of levels for wireless communications *Implementing Data Analytics and Architectures for Next Generation Wireless Communications* addresses the existing and emerging theoretical and practical challenges in the design development and implementation of big data algorithms protocols architectures and applications for next generation wireless communications and their applications in smart cities The chapters of this book bring together academics and industrial practitioners to exchange discuss and implement the latest innovations and applications of data analytics in advanced networks Specific topics covered include key encryption techniques smart home appliances fog communication networks and security in the internet of things This book is valuable for technologists data analysts networking experts practitioners researchers academicians and students

**Advances on P2P, Parallel, Grid, Cloud and Internet Computing** Fatos Xhafa,Santi Caballé,Leonard Barolli,2017-11-02 This book presents the latest innovative research findings on P2P Parallel Grid Cloud and Internet Computing It gathers the Proceedings of the 12th International Conference on P2P Parallel Grid Cloud and Internet Computing held on November 8 10 2017 in Barcelona Spain These computing technologies have rapidly established themselves as breakthrough paradigms for solving complex problems by enabling the aggregation and sharing of an increasing variety of distributed computational resources at large scale Grid Computing originated as a paradigm for high performance computing offering an alternative to expensive supercomputers through different forms of large scale distributed computing while P2P Computing emerged as a new paradigm after client server and web based computing and has shown to be useful in the development of social networking B2B Business to Business B2C Business to Consumer B2G Business to Government B2E Business to Employee and so on Cloud Computing has been defined as a computing paradigm

where the boundaries of computing are determined by economic rationale rather than technical limits Cloud computing has quickly been adopted in a broad range of application domains and provides utility computing at large scale Lastly Internet Computing is the basis of any large scale distributed computing paradigm it has very rapidly developed into a flourishing field with an enormous impact on today's information societies serving as a universal platform comprising a large variety of computing forms such as Grid P2P Cloud and Mobile computing The aim of the book *Advances on P2P Parallel Grid Cloud and Internet Computing* is to provide the latest findings methods and development techniques from both theoretical and practical perspectives and to reveal synergies between these large scale computing paradigms *Building Enterprise IoT Applications* Chandrasekar Vuppalapati, 2019-12-12 McKinsey Global Institute predicts Internet of Things IoT could generate up to 11.1 trillion a year in economic value by 2025 Gartner Research Company expects 20 billion inter connected devices by 2020 and as per Gartner the IoT will have a significant impact on the economy by transforming many enterprises into digital businesses and facilitating new business models improving efficiency and increasing employee and customer engagement It's clear from above and our research that the IoT is a game changer and will have huge positive impact in foreseeable future In order to harvest the benefits of IoT revolution the traditional software development paradigms must be fully upgraded The mission of our book is to prepare current and future software engineering teams with the skills and tools to fully utilize IoT capabilities The book introduces essential IoT concepts from the perspectives of full scale software development with the emphasis on creating niche blue ocean products It also Outlines a fundamental full stack architecture for IoT Describes various development technologies in each IoT layer Explains IoT solution development from Product management perspective Extensively covers security and applicable threat models as part of IoT stack The book provides details of several IoT reference architectures with emphasis on data integration edge analytics cluster architectures and closed loop responses

### **Democratization of Artificial Intelligence for the Future of Humanity** Chandrasekar Vuppalapati, 2021-01-17

Artificial intelligence AI stands out as a transformational technology of the digital age Its practical applications are growing very rapidly One of the chief reasons AI applications are attaining prominence is in its design to learn continuously from real world use and experience and its capability to improve its performance It is no wonder that the applications of AI span from complex high technology equipment manufacturing to personalized exclusive recommendations to end users Many deployments of AI software given its continuous learning need require computation platforms that are resource intense and have sustained connectivity and perpetual power through central electrical grid In order to harvest the benefits of AI revolution to all of humanity traditional AI software development paradigms must be upgraded to function effectively in environments that have resource constraints small form factor computational devices with limited power devices with intermittent or no connectivity and or powered by non perpetual source or battery power The aim this book is to prepare current and future software engineering teams with the skills and tools to fully utilize AI capabilities in resource constrained

devices The book introduces essential AI concepts from the perspectives of full scale software development with emphasis on creating niche Blue Ocean small form factored computational environment products      **Critical Infrastructure Protection**

**XI** Mason Rice,Sujeet Sheno,2017-11-20 The information infrastructure comprising computers embedded devices networks and software systems is vital to operations in every sector chemicals commercial facilities communications critical manufacturing dams defense industrial base emergency services energy financial services food and agriculture government facilities healthcare and public health information technology nuclear reactors materials and waste transportation systems and water and wastewater systems Global business and industry governments indeed society itself cannot function if major components of the critical information infrastructure are degraded disabled or destroyed Critical Infrastructure Protection XI describes original research results and innovative applications in the interdisciplinary field of critical infrastructure protection Also it highlights the importance of weaving science technology and policy in crafting sophisticated yet practical solutions that will help secure information computer and network assets in the various critical infrastructure sectors Areas of coverage include Infrastructure Protection Infrastructure Modeling and Simulation Industrial Control System Security and Internet of Things Security This book is the eleventh volume in the annual series produced by the International Federation for Information Processing IFIP Working Group 11 10 on Critical Infrastructure Protection an international community of scientists engineers practitioners and policy makers dedicated to advancing research development and implementation efforts focused on infrastructure protection The book contains a selection of sixteen edited papers from the Eleventh Annual IFIP WG 11 10 International Conference on Critical Infrastructure Protection held at SRI International Arlington Virginia USA in the spring of 2017 Critical Infrastructure Protection XI is an important resource for researchers faculty members and graduate students as well as for policy makers practitioners and other individuals with interests in homeland security

**Intelligent Internet of Things** Farshad Firouzi,Krishnendu Chakrabarty,Sani Nassif,2020-01-21 This holistic book is an invaluable reference for addressing various practical challenges in architecting and engineering Intelligent IoT and eHealth solutions for industry practitioners academic and researchers as well as for engineers involved in product development The first part provides a comprehensive guide to fundamentals applications challenges technical and economic benefits and promises of the Internet of Things using examples of real world applications It also addresses all important aspects of designing and engineering cutting edge IoT solutions using a cross layer approach from device to fog and cloud covering standards protocols design principles reference architectures as well as all the underlying technologies pillars and components such as embedded systems network cloud computing data storage data processing big data analytics machine learning distributed ledger technologies and security In addition it discusses the effects of Intelligent IoT which are reflected in new business models and digital transformation The second part provides an insightful guide to the design and deployment of IoT solutions for smart healthcare as one of the most important applications of IoT Therefore the second part targets smart

healthcare wearable sensors body area sensors advanced pervasive healthcare systems and big data analytics that are aimed at providing connected health interventions to individuals for healthier lifestyles Dependable IoT for Human and Industry Vyacheslav Kharchenko,Ah Lian Kor,Andrzej Rucinski,2022-09-01 There are numerous publications which introduce and discuss the Internet of Things IoT In the midst of these this work has several unique characteristics which should change the reader s perspective and in particular provide a more profound understanding of the impact of the IoT on society Dependable IoT for Human and Industry covers the main aspects of Internet of Things and IoT based systems such as global issues of applications modeling development and implementation of dependable IoT for different human and industry domains Technical topics discussed in the book include Introduction in Internet of vital and trust Things Modelling and assessment techniques for dependable and secure IoT systems Architecting and development of IoT systems Implementation of IoT for smart cities and drone fleets business and blockchain transport and industry Training courses and education experience on Internet and Web of ThingThe book contains chapters which have their roots in the International Conference IDAACS 2017 and Workshop on Cyber Physical Systems and IoT Dependability CyberIoT DESSERT 2017 Proceedings of SAI Intelligent Systems Conference (IntelliSys) 2016 Yaxin Bi,Supriya Kapoor,Rahul Bhatia,2017-08-19 These proceedings of the SAI Intelligent Systems Conference 2016 IntelliSys 2016 offer a remarkable collection of chapters on a wide range of topics in intelligent systems artificial intelligence and their applications to the real world Authors hailing from 56 countries on 5 continents submitted 404 papers to the conference attesting to the global importance of the conference s themes After being reviewed 222 papers were accepted for presentation and 168 were ultimately selected for these proceedings Each has been reviewed on the basis of its originality novelty and rigorousness The papers not only present state of the art methods and valuable experience from researchers in the related research areas they also outline the field s future development

**Academic Press Library in Mobile and Wireless Communications** Katie Wilson,Stephen G. Wilson,2016-08-04 This book edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in wireless communications and transmission techniques The reader will Quickly grasp a new area of research Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Reviews important and emerging topics of research in wireless technology in a quick tutorial format Presents core principles in wireless transmission theory Provides reference content on core principles technologies algorithms and applications Includes comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge *Multimedia Communications, Services and Security* Andrzej Dziech,Mikołaj Leszczuk,Remigiusz Baran,2015-12-01 This volume constitutes the refereed proceedings of the 8th International Conference on Multimedia Communications Services and Security MCSS 2015 held in Krakow Poland in November 2015 The 16 full papers included in the volume were selected from 39 submissions The papers



cover ongoing research activities in the following topics multimedia services intelligent monitoring audio visual systems biometric applications experiments and deployments

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*eWork and eBusiness in Architecture, Engineering and Construction* Jan Karlshøj, Raimar Scherer, 2018-09-03 *eWork and eBusiness in Architecture Engineering and Construction 2018* collects the papers presented at the 12th European Conference on Product and Process Modelling ECPPM 2018 Copenhagen 12-14 September 2018 The contributions cover complementary thematic areas that hold great promise towards the advancement of research and technological development in the modelling of complex engineering systems encompassing a substantial number of high quality contributions on a large spectrum of topics pertaining to ICT deployment instances in AEC FM including Information and Knowledge Management Construction Management Description Logics and Ontology Application in AEC Risk Management 5D nD Modelling Simulation and Augmented Reality Infrastructure Condition Assessment Standardization of Data Structures Regulatory and Legal Aspects Multi Model and distributed Data Management System Identification Industrialized Production Smart Products and Services Interoperability Smart Cities Sustainable Buildings and Urban Environments Collaboration and Teamwork BIM Implementation and Deployment Building Performance Simulation Intelligent Catalogues and Services *eWork and eBusiness in Architecture Engineering and Construction 2018* represents a

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