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*Management Enabling the Future Internet for Changing Business and New Computing Services Grid and Cooperative Computing - GCC 2004 Beginning Sensor Networks with Arduino and Raspberry Pi Geomatics Canada, Technical Note 2 Open Source Systems: Adoption and Impact Beginning Sensor Networks with XBee, Raspberry Pi, and Arduino Small-Format Aerial Photography Architecture-Independent Programming for Wireless Sensor Networks Applications of Machine intelligence in Engineering Sensor Systems and Software Langford's Starting Photography Langford's Starting Photography Advanced Photography Light and Lens Complete Crime Scene Investigation Workbook Langford's Advanced Photography Image Processing and Data Analysis with ERDAS IMAGINE® Effects of Solar Ultraviolet Radiation on Biogeochemical Dynamics in Aquatic Environments GIS UTM Security with Fortinet Smart Sensing and Context Digital Masters: Travel Photography Basic Photographic Materials and Processes Advanced Photoshop Elements 6 for Digital Photographers Advanced Photoshop Elements 7 for Digital Photographers Software Design and Development: Concepts, Methodologies, Tools, and Applications Handbook of Sensor Networks Data Information Literacy Multisensor Data Fusion Advances in Semantic Media Adaptation and Personalization Pet Photography Image Sensors and Signal Processing for Digital Still Cameras In Public Restrooms Photographers at Work Nikon D7100 Digital Field Guide Aircraft Wake Vortex Spacing System (AVOSS) Performance Update and Validation Study Digital Cinematography Systems Aspects in Organic and Pervasive Computing - ARCS 2005 Cyberspace Security and Defense: Research Issues Distributed Computing in Sensor Systems*

*The book constitutes the refereed proceedings of the 6th International Conference on Distributed Computing in Sensor Systems, DCOSS 2010, held in Santa Barbara, CA, USA, in June 2010. The 28 revised full papers presented were carefully reviewed and selected from 76 submissions. The research contributions in this proceedings span important aspects of sensor systems, including energy management; communication; coverage and tracking; time synchronization and scheduling; key establishment and authentication; compression; medium access control; code update; and mobility. Innovative tools and techniques for the*

development and design of software systems are essential to the problem solving and planning of software solutions. *Software Design and Development: Concepts, Methodologies, Tools, and Applications* brings together the best practices of theory and implementation in the development of software systems. This reference source is essential for researchers, engineers, practitioners, and scholars seeking the latest knowledge on the techniques, applications, and methodologies for the design and development of software systems. Everything you need to know to take full advantage of your Nikon D7100 As a well-rounded, feature-rich dSLR, the new Nikon D7100 is a compact lightweight camera that is loaded with sophisticated features. This full-color guide is packed with expert advice that will both educate and inspire you to take amazing photographs with your Nikon D7100. Filled with stunning images by author and photographer J. Dennis Thomas, this guide goes beyond the owner's manual to offer you helpful tips, tricks, and techniques for using the camera's many features and explains when and how to use each function. Features a handy trim size so the book can go where you go, allowing you to frequently refer to the professional-level techniques for capturing memorable photos and handling tricky situations Includes full-color images of each menu screen to reinforce your understanding Contains a grey and color checker card to help you capture perfect white balance and color in any environment Shares helpful examples that offer advice on taking portraits, candid, sports, travel, macro photography, and much more Nikon D7100 Digital Field Guide is the perfect portable companion to your new Nikon D7100! An analysis has been performed on data generated from the two most recent field deployments of the Aircraft Wake Vortex Spacing System (AVOSS). The AVOSS provides reduced aircraft spacing criteria for wake vortex avoidance as compared to the FAA spacing applied under Instrument Flight Rules (IFR). Several field deployments culminating in a system demonstration at Dallas Fort Worth (DFW) International Airport in the summer of 2000 were successful in showing a sound operational concept and the system's potential to provide a significant benefit to airport operations. For DFW, a predicted average throughput increase of 6% was observed. This increase implies 6 or 7 more aircraft on the ground in a one-hour period for DFE operations. Several studies of performance correlations to system configuration options, and system inputs are also reported. The studies focus on the validation performance of the system. In Public Restrooms is a long-term observation on identity and meta data. **PHOTOGRAPHIC EQUIPMENT & TECHNIQUES.** As the craze for travel to new and exotic places increases, so does the desire to capture these experiences with digital camera in hand: the scenic vistas, the unique architecture, the people who

*inhabit the landscape. In this magnificent new study, award-winning National Geographic photographer Bob Krist examines the technological aspects of shooting digitally on location and explains how to select the right equipment, from cameras and lenses to flashes and tripods. He offers tips for saving, backing up and sending images on the road and gets to the heart of what it takes to portray the true spirit of the subject. He poses such questions as: What makes a truly great photograph? How can you create a well-rounded portrait of a place through its geography, people and culture? The answers are all illustrated with the author's collection of stunning travel photographs to inspire along the way. The emerging technology of multisensor data fusion has a wide range of applications, both in Department of Defense (DoD) areas and in the civilian arena. The techniques of multisensor data fusion draw from an equally broad range of disciplines, including artificial intelligence, pattern recognition, and statistical estimation. With the rapid evolution of realizing the growing importance of semantic adaptation and personalization of media, the editors of this book brought together leading researchers and practitioners of the field to discuss the state-of-the-art, and explore emerging exciting developments. This volume comprises extended versions of selected papers presented at the 1st International Workshop on Semantic Media Adaptation and Personalization (SMAP 2006), which took place in Athens in December 2006. This essential guide for intermediate/advanced photographers has now been fully updated for Elements 7. Bestselling author and Elements guru Philip Andrews turns his expansive knowledge to this powerful application, delivering, once again, a practical approach in a crystal-clear writing style. For the advanced Elements user, this book offers a standalone guide to advancing knowledge of the software. For those with a little less experience, it works seamlessly in conjunction with Philip's other Elements guide: "Adobe Photoshop Elements 7: A visual introduction to digital photography". Philip expands on the solid foundation delivered by that title to deliver a master-guide that shows you just how powerful this deceptively simple software package can be. Throughout the book, Philip takes a pro's approach, emphasising a streamlined, non-destructive workflow. Diverse chapters cover the entire spectrum of photographic potential offered by the software, including key areas such as: darkroom techniques, advanced selection techniques, professional retouching, photo restoration, panoramas, collages, RAW processing and printing. Additionally, the content is supplemented by extra great learning tools available on a brand new website including; downloadable resources, and Elements vodcasts. Essential reading for all photographers using Elements 7. This specially developed workbook can be*

*used in conjunction with the Complete Crime Scene Investigation Handbook (ISBN: 978-1-4987-0144-0) in group training environments, or for individuals looking for independent, step-by-step self-study guide. It presents an abridged version of the Handbook, supplying both students and professionals with the most critical points and extensive hands-on exercises for skill enhancement. Filled with more than 350 full-color images, the Complete Crime Scene Investigation Workbook walks readers through self-tests and exercises they can perform to practice and improve their documentation, collection, and processing techniques. Most experienced crime scene investigators will tell you that it is virtually impossible to be an expert in every aspect of crime scene investigations. If you begin to "specialize" too soon, you risk not becoming a well-rounded crime scene investigator. Establishing a complete foundation to the topic, the exercises in this workbook reinforce the concepts presented in the Handbook with a practical, real-world application. As a crime scene investigator, reports need to be more descriptive than they are at the patrol officer level. This workbook provides a range of scenarios around which to coordinate multiple exercises and lab examples, and space is provided to write descriptions of observations. The book also supplies step-by-step, fully illustrative photographs of crime scene procedures, protocols, and evidence collection and testing techniques. This lab exercise workbook is ideal for use in conjunction with the Handbook, both in group training settings, as well as a stand-alone workbook for individuals looking for hands-on self-study. It is a must-have resource for crime scene technicians, investigators, and professionals who want a complete manual of crime scene collection and processing techniques. Shrinking pixel sizes along with improvements in image sensors, optics, and electronics have elevated DSCs to levels of performance that match, and have the potential to surpass, that of silver-halide film cameras. Image Sensors and Signal Processing for Digital Still Cameras captures the current state of DSC image acquisition and signal processing technology and takes an all-inclusive look at the field, from the history of DSCs to future possibilities. The first chapter outlines the evolution of DSCs, their basic structure, and their major application classes. The next few chapters discuss high-quality optics that meet the requirements of better image sensors, the basic functions and performance parameters of image sensors, and detailed discussions of both CCD and CMOS image sensors. The book then discusses how color theory affects the uses of DSCs, presents basic image processing and camera control algorithms and examples of advanced image processing algorithms, explores the architecture and required performance of signal processing engines, and explains how to evaluate image quality for each component described. The*

book closes with a look at future technologies and the challenges that must be overcome to realize them. With contributions from many active DSC experts, *Image Sensors and Image Processing for Digital Still Cameras* offers unparalleled real-world coverage and opens wide the door for future innovation. As the need for geographical data rapidly expands in the 21st century, so too do applications of small-format aerial photography for a wide range of scientific, commercial and governmental purposes. *Small-format Aerial Photography (SFAP)* presents basic and advanced principles and techniques with an emphasis on digital cameras. Unmanned platforms are described in considerable detail, including kites, helium and hot-air blimps, model airplanes, and paragliders. Several case studies, primarily drawn from the geosciences, are presented to demonstrate how SFAP is actually used in various applications. Many of these integrate SFAP with ground-based investigations as well as conventional large-format aerial photography, satellite imagery, and other kinds of geographic information. Full-color photographs throughout Case studies from around the globe Techniques presented allow for image resolution impossible to match via traditional aerial photography or satellite datasets Glossary clarifies key terms Today's successful cinematographer must be equal parts artist, technician, and business-person. The cinematographer needs to master the arts of lighting, composition, framing and other aesthetic considerations, as well as the technology of digital cameras, recorders, and workflows, and must know how to choose the right tools (within their budget) to get the job done. David Stump's *Digital Cinematography* focuses on the tools and technology of the trade, looking at how digital cameras work, the ramifications of choosing one camera versus another, and how those choices help creative cinematographers to tell a story. This book empowers the reader to correctly choose the appropriate camera and workflow for their project from today's incredibly varied options, as well as understand the ins and outs of implementing those options. Veteran ASC cinematographer David Stump has updated this edition with the latest technology for cameras, lenses, and recorders, as well as included a new section on future cinematographic trends. Ideal for advanced cinematography students as well as working professionals looking for a resource to stay on top of the latest trends, this book is a must read. Starting with the basics of camera control and moving on to shutter speeds, aperture, zoom and flash, Langford's *Starting Photography* gives you the only introduction to digital photography you'll ever need. Once you've mastered the basics, examples and projects allow you to explore the key methods for capturing a variety of subjects from portraits and pets to landscapes and sports photography, alongside

*straightforward advice on using editing software to get the best out of your digital shots, will have you producing unforgettable images in moments. More inspiring than a textbook, more interesting than a reference, and more in-depth than a photography class, Langford's Starting Photography is the only guide you need to start taking great images. This book constitutes the refereed proceedings of the 11th International IFIP WG 2.13 International Conference on Open Source Systems, OSS 2015, held in Florence, Italy, in May 2015. The 16 revised full papers presented were carefully reviewed and selected from 50 submissions. They have been organized in the following topical sections: open source software engineering; communication and collaboration; examples and case studies; adoption, use, and impact; and intellectual property and legal issues. Also included is an OSS 2015 PhD contest paper. A new chapter on digital workflow has been included and even more information added regarding digital photography while still retaining coverage for film camera users to widen the audience appeal. All the core basics are featured, as well as invaluable scanner and printing techniques. This new entry in the From Snapshots to Great Shots series will teach readers everything they need to know about photographing their pets. Like all books in the series, the book will offer instruction on basic photographic technique, discussing exposure settings, lighting, equipment, etc. Then the book will dive into working with various types of animals, posing them, capturing action shots, and working with multiple subjects. From Snapshots to Great Shots is a beautiful how-to photography series that provides the perfect blend of instruction, inspiration, and reference for specific camera models and photography concepts. Featuring a clear, elegant design; outstanding images that educate and inspire; and a friendly, accessible voice, this series helps photographers get great shots every time they pick up their camera. This book constitutes the refereed proceedings of the 18th International Conference on Architecture of Computing Systems, ARCS 2005, held in Innsbruck, Austria in March 2005. The 18 revised full papers presented were carefully reviewed and selected from 52 submissions. The papers are organized in topical sections on adaptation, power consumption, and scheduling; adaptation and agents; adaptation and services; application of adaptable systems; and pervasive computing and communication. In order to develop your artistic skills to the best of your ability, you first must understand the science and the fundamentals of photography. Whether you are a student of photography or a seasoned professional, this thoroughly updated edition of the classic text Basic Photographic Materials and Processes will provide all of the scientific information that you need. Full color throughout for the first time, this third edition covers new topics*

including digital resolution, digital sensor technology, scanner technology, color management, and tone reproduction. We are delighted to present the proceedings of the 12th Asia-Pacific Network Operations and Management Symposium (APNOMS 2009), which was held in Jeju, Korea, during September 23–25, 2009. Recently, various convergences in wired and wireless networks, and convergence of telecommunications and broadcastings, are taking place for ubiquitous multimedia service provisioning. For example, broadband IP/MPLS wired networks are actively converged with IEEE 802.11e wireless LAN, IEEE 802.16 Wireless MAN, 3G/4G wireless cellular networks, and direct multimedia broadcast (DMB) networks. For efficient support of service provisioning for ubiquitous multimedia services on the broadband convergence networks, well-designed and implemented network operations and management functions with QoS-guaranteed traffic engineering are essential. The converged network will open the way for a new world with emerging new businesses and computing services. The Organizing Committee (OC) selected “Management Enabling the Future Internet for Changing Business and New Computing Services” as the timely theme of APNOMS 2009. Contributions from academia, industry and research institutions met these challenges with 173 papers submissions, from which 41 high-quality papers (23.7% of the submissions) were selected for technical sessions as full papers, and 32 papers were selected as short papers. In addition, we had nine papers in innovation sessions for on-going research. Diverse topics were covered, including Traffic Trace Engineering, Configuration and Fault Management, Management of IP-Based Networks, Autonomous and Distributed Control, Sensor Network and P2P Management, Converged Networks and Traffic Engineering, SLA and QoS Management, Active and Security Management, Wireless and Mobile Network Management, and Security Management. Given the increasing attention to managing, publishing, and preserving research datasets as scholarly assets, what competencies in working with research data will graduate students in STEM disciplines need to be successful in their fields? And what role can librarians play in helping students attain these competencies? In addressing these questions, this book articulates a new area of opportunity for librarians and other information professionals, developing educational programs that introduce graduate students to the knowledge and skills needed to work with research data. The term “data information literacy” has been adopted with the deliberate intent of tying two emerging roles for librarians together. By viewing information literacy and data services as complementary rather than separate activities, the contributors seek to leverage the progress made and the lessons learned in each service area. The intent

of the publication is to help librarians cultivate strategies and approaches for developing data information literacy programs of their own using the work done in the multiyear, IMLS-supported Data Information Literacy (DIL) project as real-world case studies. The initial chapters introduce the concepts and ideas behind data information literacy, such as the twelve data competencies. The middle chapters describe five case studies in data information literacy conducted at different institutions (Cornell, Purdue, Minnesota, Oregon), each focused on a different disciplinary area in science and engineering. They detail the approaches taken, how the programs were implemented, and the assessment metrics used to evaluate their impact. The later chapters include the "DIL Toolkit," a distillation of the lessons learned, which is presented as a handbook for librarians interested in developing their own DIL programs. The book concludes with recommendations for future directions and growth of data information literacy. More information about the DIL project can be found on the project's website: [datainfoilit.org](http://datainfoilit.org).

Think you've exhausted all of the possibilities in Adobe's awesome Photoshop Elements software? Think again. In this fully updated essential guide, Philip Andrews delves deeper into the software than ever before with advanced tips, tricks, and techniques to help the experienced Elements user take their skills to the next level. Move beyond the basics and learn how to work with raw files. Create stunning panoramas without breaking the bank on a pano camera using the Elements Photomerge technology. Create professional-quality multimedia projects in no time. Using easy-to-follow step-by-step instructions as well as full color, inspirational images to demonstrate techniques, Philip shows you how to do all this and more in *Advanced Photoshop Elements 6 for Digital Photographers*. Don't fall behind the learning curve - instead, let Philip show you how to get one step ahead! This book constitutes the thoroughly refereed post-conference proceedings of the Second International ICST Conference on Sensor Systems and Software, S-Cube 2010, held in Miami, Florida, USA, in December 2010. The 17 revised full papers presented were carefully reviewed and selected and cover a wide range of topics including sensor application programming paradigms, novel sensor applications, sensor network middleware, trust security and privacy, wireless sensor network management and monitoring, and sensor application development support systems. *The State Of The Art Of Sensor Networks* Written by an international team of recognized experts in sensor networks from prestigious organizations such as Motorola, Fujitsu, the Massachusetts Institute of Technology, Cornell University, and the University of Illinois, *Handbook of Sensor Networks: Algorithms and Architectures* tackles important challenges and presents the latest trends and

*innovations in this growing field. Striking a balance between theoretical and practical coverage, this comprehensive reference explores a myriad of possible architectures for future commercial, social, and educational applications, and offers insightful information and analyses of critical issues, including: \* Sensor training and security \* Embedded operating systems \* Signal processing and medium access \* Target location, tracking, and sensor localization \* Broadcasting, routing, and sensor area coverage \* Topology construction and maintenance \* Data-centric protocols and data gathering \* Time synchronization and calibration \* Energy scavenging and power sources* With exercises throughout, students, researchers, and professionals in computer science, electrical engineering, and telecommunications will find this an essential read to bring themselves up to date on the key challenges affecting the sensors industry. This volume constitutes the revised papers of the 4th European Conference on Smart Sensing and Context, Euro SSC 2009, held in Guilford, UK, in September 2009. This volume consists of 16 full papers. Each paper received at least three peer reviews. The conference and proceedings were structured into 6 main tracks which discussed the key themes addressed by EuroSCC 2009: activity recognition, information aspects of context-aware sensor and actuator systems, context-aware service platforms, context processing, reasoning and fusion, real-world experiences with deployed systems, and context-aware frameworks in mobile environments.

*Advanced Photography is a practical book for students and serious enthusiasts who wish to achieve more professional looking results. From choosing lenses and camera equipment, to film types and technical data, lighting and tone control, processing management and colour printing; the book offers technical solutions and practical advice on all aspects of professional photography. The book has now been fully revised, to include not just the latest camera equipment and films, but explains how new digital methods can be used alongside silver halide systems - allowing the reader to benefit from the best practical features of each. Written as a companion volume to the international bestseller Basic Photography this book has enjoyed a long established reputation as a technical 'bible' for new professionals. It will appeal to anyone wishing to improve on their basic skills in practical photography - enabling you to achieve a higher standard of work and to deal more professionally with clients, agents and suppliers. The late Michael Langford was Former Photography Course Director at the Royal College of Art in London. He was intimately involved with photography courses at all levels and as a result fully understood what a student needed. His other books for Focal Press are: 'Basic Photography', 'Story of Photography' and 'Starting Photography'. New automated, application-independent*

*methodology for designing and deploying sensor networks* Following this book's clear explanations, examples, and illustrations, domain experts can design and deploy nontrivial networked sensing applications without much knowledge of the low-level networking aspects of deployment. This new approach is based on the Abstract Task Graph (ATaG), a data-driven programming model and an innovative methodology for architecture-independent programming and automatic software synthesis for sensor networks. ATaG programs are concise, understandable, and network-independent descriptions of global application functionality that can be automatically compiled onto any target deployment. The book begins with an overview chapter that addresses the important issues of programming methodologies and compares various programming models for sensor networks. Next, the authors set forth everything you need for designing and deploying sensor networks using ATaG, including: Detailed description of the ATaG model's features System-level support for architecture-independent programming Examination of the graphical programming and software synthesis environment for ATaG Case study illustrating the process of end-to-end application development and software synthesis using ATaG Throughout the book, the authors provide code excerpts and figures to help clarify key concepts and explain each step. For programmers, the graphical formalism of the ATaG program, coupled with the fact it uses an existing language (Java), means that no special training is needed to start developing and deploying applications in ATaG. Everything you need to know is clearly set forth in this book. In the tumultuous, ever-shifting terrain of the digital age, this groundbreaking introductory book offers the strength and stability of the fundamental aesthetic and technical building blocks necessary to create visually stimulating and thought-provoking digitally based photographs. Remotely sensed data, in the form of digital images captured from spaceborne and airborne platforms, provide a rich analytical and observational source of information about the current status, as well as changes occurring in, on, and around the Earth's surface. The data products, or simply images processed from these platforms, provide an additional advantage in that geographic areas or regions of interest can be revisited on a regular cycle. This revisit cycle allows geospatial analysts and natural resource managers to explore changing conditions over time. *Image Processing and Data Analysis with ERDAS IMAGINE®* explains the principles behind the processing of remotely sensed data in a simple, easy to understand, and "how-to" format. Organized as a step-by-step guide with exercises adapted from original research and using publicly available imagery, such as NASA Landsat, ESA Sentinel-2, Orthophotos, and others, this book gives readers the ability to

*quickly gain the practical experience needed to navigate the ERDAS IMAGINE® software as well as learn certain applications in Esri's ArcMap ArcGIS for Desktop software and Quantum the GIS (QGIS) open source applications package. It also helps readers to easily move beyond the information presented in this book and tackle more advanced skills. Written by two professors with long experience in remote sensing and image processing, this book is a useful guide and reference for both undergraduate and graduate students, researchers, instructors, managers, and agency professionals who are involved in the study of Earth systems and the environment. Offers practical information and guidance for professional photographers, including working with models, legal and safety issues of working on location, securing clients and work, and handling the complex finances of a business. Cyberspace security is a critical subject of our times. On one hand the development of Internet, mobile communications, distributed computing, computer software and databases storing essential enterprise information has helped to conduct business and personal communication between individual people. On the other hand it has created many opportunities for abuse, fraud and expensive damage. This book is a selection of the best papers presented at the NATO Advanced Research Workshop dealing with the Subject of Cyberspace Security and Defense. The level of the individual contributions in the volume is advanced and suitable for senior and graduate students, researchers and technologists who wish to get some feeling of the state of the art in several sub-disciplines of Cyberspace security. Several papers provide a broad-brush description of national security issues and brief summaries of technology states. These papers can be read and appreciated by technically enlightened managers and executives who want to understand security issues and approaches to technical solutions. An important question of our times is not "Should we do something for enhancing our digital assets security", the question is "How to do it". Beginning Sensor Networks with Arduino and Raspberry Pi teaches you how to build sensor networks with Arduino, Raspberry Pi, and XBee radio modules, and even shows you how to turn your Raspberry Pi into a MySQL database server to store your sensor data! First you'll learn about the different types of sensors and sensor networks, including how to build a simple XBee network. Then you'll walk through building an Arduino-based temperature sensor and data collector, followed by building a Raspberry Pi-based sensor node. Next you'll learn different ways to store sensor data, including writing to an SD card, sending data to the cloud, and setting up a Raspberry Pi MySQL server to host your data. You even learn how to connect to and interact with a MySQL database server directly from an Arduino! Finally you'll learn how to put it*

*all together by connecting your Arduino sensor node to your new Raspberry Pi database server. If you want to see how well Arduino and Raspberry Pi can get along, especially to create a sensor network, then Beginning Sensor Networks with Arduino and Raspberry Pi is just the book you need. The Global Conference on Artificial Intelligence and Applications (GCAIA 2021) provides a prominent venue for researchers, engineers, entrepreneurs, and scholar students to share their research ideas in the area of AI. Academic researchers would reveal the results and conclusions of laboratory based investigations via the GCAIA 21 platform, which bridges the gap between academia, industry, and government ethics. The GCAIA 21 platform will also bring together regional and worldwide issues to explore current advancements in contemporary Computation Intelligence. This Conference Proceedings volume contains the written versions of most of the contributions presented during the conference of GCAIA 2021. The conference has provided an excellent chance for researchers from diverse locations to present and debate their work in the field of artificial intelligence and its applications. It includes a selection of 62 papers. All accepted papers were subjected to strict peer-review by 2–4 expert referees. The papers have been selected for this volume because of their quality and their relevance to the theme of the conference. Build sensor networks with Python and MicroPython using XBee radio modules, Raspberry Pi, and Arduino boards. This revised and updated edition will put all of these together to form a sensor network, and show you how to turn your Raspberry Pi into a MySQL database server to store your sensor data! You'll review the different types of sensors and sensor networks, along with new technology, including how to build a simple XBee network. You'll then walk through building an sensor nodes on the XBee, Raspberry Pi, and Arduino, and also learn how to collect data from multiple sensor nodes. The book also explores different ways to store sensor data, including writing to an SD card, sending data to the cloud, and setting up a Raspberry Pi MySQL server to host your data. You'll even learn how to connect to and interact with a MySQL database server directly from an Arduino! Finally you'll see how to put it all together by connecting your sensor nodes to your new Raspberry Pi database server. If you want to see how well XBee, Raspberry Pi, and Arduino can get along, especially to create a sensor network, then Beginning Sensor Networks with XBee, Raspberry Pi, and Arduino is just the book you need. What You'll LearnCode your sensor nodes with Python and MicroPython Work with new XBee 3 modulesHost your data on Raspberry PiGet started with MySQLCreate sophisticated sensor networks Who This Book Is For Those interested in building or experimenting with sensor networks and IoT solutions,*

including those with little or no programming experience. A secondary target includes readers interested in using XBee modules with Raspberry Pi and Arduino, those interested in controlling XBee modules with MicroPython. The second edition of this introductory GIS textbook is thoroughly rewritten and updated to respond to the demand for critical engagement with technologies that address relevant issues across several disciplines preparing students for higher-level work in geotechnologies. Chapters are arranged to (1) build competence in fundamental skills, (2) explore applications of higher-level managerial and analytical functions that are typically called upon in public, nonprofit, and private sector milieu, and (3) propose and detail a template for organizing, executing, and completing a GIS project successfully. This interests all users from beginners to experienced professionals. Features: Uses the latest version of ArcGIS Pro (3.0) to present a fully rewritten and updated text with diverse perspectives. Includes many real-world examples with urban planning, environmental, and social justice foci. Presents new discussions, examples, and lab materials on open-source GIS projects. Junior and senior level undergraduate students taking courses in remote sensing and GIS applications, studying in the fields of Geography, Environmental Sciences, Computer Science, Urban Studies, Public Health, and Social Disciplines, as well as researchers and academics in the same fields, will all benefit from the information provided in the updated version of this book. Whether you're a serious enthusiast, a student or a training professional, this book covers it all; from genres, cameras, lenses, digital imaging sensors and films to insights into photography as an industry. Traditionally, network security (firewalls to block unauthorized users, Intrusion Prevention Systems (IPS) to keep attackers out, Web filters to avoid misuse of Internet browsing, and antivirus software to block malicious programs) required separate boxes with increased cost and complexity. Unified Threat Management (UTM) makes network security less complex, cheaper, and more effective by consolidating all these components. This book explains the advantages of using UTM and how it works, presents best practices on deployment, and is a hands-on, step-by-step guide to deploying Fortinet's FortiGate in the enterprise. Provides tips, tricks, and proven suggestions and guidelines to set up FortiGate implementations Presents topics that are not covered (or are not covered in detail) by Fortinet's documentation Discusses hands-on troubleshooting techniques at both the project deployment level and technical implementation area This book constitutes the joint refereed proceedings of five international workshops held in association with the Third International Conference on Grid and Cooperative Computing, GCC 2004, in Wuhan, China in October 2004. The 95 revised

*workshop papers presented were carefully reviewed and selected from a total of 154 submissions. In accordance with the workshop titles, the papers are organized in topical sections on the information grid and knowledge grid; storage grid and technologies; information security and survivability for the grid; agents, autonomic computing, and grid enabled virtual organization; and visualization and visual steering.*

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