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Cryptography

Recent Advances and Future Developments

BoD - Books on Demand Despite being 2000 years old, cryptography is still a very active field of research. New needs and application fields, like privacy, the Internet of Things (IoT), physically unclonable functions (PUFs), post-quantum cryptography, and quantum key distribution, will keep fueling the work in this field. This book discusses quantum cryptography, lightweight cryptography for IoT, PUFs, cryptanalysis, and more. It provides a snapshot of some recent research results in the field, providing readers with some useful tools and stimulating new ideas and applications for future investigation.

Side-Channel Analysis of Embedded Systems

An Efficient Algorithmic Approach

Springer Nature It has been more than 20 years since the seminal publications on side-channel attacks. They aim at extracting secrets from embedded systems while they execute cryptographic algorithms, and they consist of two steps, measurement and analysis. This book tackles the analysis part, especially under situations where the targeted device is protected by random masking. The authors explain advances in the field and provide the reader with mathematical formalizations. They present all known analyses within the same notation framework, which allows the reader to rapidly understand and learn contrasting approaches. It will be useful as a graduate level introduction, also for self-study by researchers and professionals, and the examples are taken from real-world datasets.

Cryptographic Hardware and Embedded Systems -- CHES 2011

13th International Workshop, Nara, Japan, September 28 -- October 1, 2011, Proceedings

Springer This book constitutes the proceedings of the 13th International Workshop on Cryptographic Hardware and Embedded Systems, CHES 2011, held in Nara, Japan, from September 28 until October 1, 2011. The 32 papers presented together with 1 invited talk were carefully reviewed and selected from 119 submissions. The papers are organized in topical sections named: FPGA implementation; AES; elliptic curve cryptosystems; lattices; side channel attacks; fault attacks; lightweight symmetric algorithms, PUFs; public-key cryptosystems; and hash functions.

Cryptographic Hardware and Embedded Systems -- CHES 2011

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Cryptographic Hardware and Embedded Systems -- CHES 2013

15th International Workshop, Santa Barbara, CA, USA, August 20-23, 2013, Proceedings

Springer This book constitutes the proceedings of the 15th International Workshop on Cryptographic Hardware and Embedded Systems, CHES 2013, held in Santa Barbara, CA, USA, in August 2013. The 27 papers presented were carefully reviewed and selected from 132 submissions. The papers are organized in the following topical sections: side-channel attacks; physical unclonable function; lightweight cryptography; hardware implementations and fault attacks; efficient and secure implementations; elliptic curve cryptography; masking; side-channel attacks and countermeasures.

Data-Driven Mining, Learning and Analytics for Secured Smart Cities

Trends and Advances

Springer Nature This book provides information on data-driven infrastructure design, analytical approaches, and technological solutions with case studies for smart cities. This book aims to attract works on multidisciplinary research spanning across the computer science and engineering, environmental studies, services, urban planning and development, social sciences and industrial engineering on technologies, case studies, novel approaches, and visionary ideas related to data-driven innovative solutions and big data-powered applications to cope with the real world challenges for building smart cities.

Handbook of Signal Processing Systems

Springer Science & Business Media Handbook of Signal Processing Systems is organized in three parts. The first part motivates representative applications that drive and apply state-of-the art methods for design and implementation of signal processing systems; the second part discusses architectures for implementing these applications; the third part focuses on compilers and simulation tools, describes models of computation and their associated design tools and methodologies. This handbook is an essential tool for professionals in many fields and researchers of all levels.

Security of Block Ciphers

From Algorithm Design to Hardware Implementation

John Wiley & Sons A comprehensive evaluation of information security analysis spanning the intersection of cryptanalysis and side-channel analysis. Written by authors known within the academic cryptography community, this book presents the latest developments in current research. Unique in its combination of both algorithmic-level design and hardware-level implementation; this all-round approach - algorithm to implementation - covers security from start to completion. Deals with AES (Advanced Encryption standard), one of the most used symmetric-key ciphers, which helps the reader to learn the fundamental theory of cryptanalysis and practical applications of side-channel analysis.

Cryptographic Hardware and Embedded Systems -- CHES 2014

16th International Workshop, Busan, South Korea, September 23-26, 2014, Proceedings

Springer This book constitutes the proceedings of the 16th International Workshop on Cryptographic Hardware and Embedded Systems, CHES 2014, held in Busan, South Korea, in September 2014. The 33 full papers included in this volume were carefully reviewed and selected from 127 submissions. They are organized in topical sections named: side-channel attacks; new attacks and constructions; countermeasures; algorithm specific SCA; ECC implementations; implementations; hardware implementations of symmetric cryptosystems; PUFs; and RNGs and SCA issues in hardware.

Progress in Cryptology - INDOCRYPT 2012

12th International Conference on Cryptology in India, Chennai, India, December 11-14, 2011, Proceedings 13th International Conference on Cryptology in India, Kolkata, India, December 9-12, 2012, Proceedings

Springer Science & Business Media This book constitutes the refereed proceedings of the 12th International Conference on Cryptology in India, INDOCRYPT 2011, held in Chennai, India, in December 2011. The 22 revised full papers presented together with the abstracts of 3 invited talks and 3 tutorials were carefully reviewed and selected from 127 submissions. The papers are organized in topical sections on side-channel attacks, secret-key cryptography, hash functions, pairings, and protocols.

New Frontiers in Cryptography

Quantum, Blockchain, Lightweight, Chaotic and DNA

Springer Nature This book provides comprehensive coverage of various Cryptography topics, while highlighting the most recent trends such as quantum, blockchain, lightweight, Chaotic and DNA cryptography. Moreover, this book covers cryptography primitives and its usage and applications and focuses on the fundamental principles of modern cryptography such as Stream Ciphers, block ciphers, public key algorithms and digital signatures. Readers will gain a solid foundation in cryptography and security. This book presents the fundamental mathematical concepts of cryptography. Moreover, this book presents hiding data techniques such as steganography and watermarking. The author also provides a comparative study of the different cryptographic methods, which can be used to solve security problems.

Side Channel Attacks

MDPI This Special Issue provides an opportunity for researchers in the area of side-channel attacks (SCAs) to highlight the most recent exciting technologies. The research papers published in this Special Issue represent recent progress in the field, including research on power analysis attacks, cache-based timing attacks, system-level countermeasures, and so on.

Security of Ubiquitous Computing Systems

Selected Topics

Springer Nature The chapters in this open access book arise out of the EU Cost Action project Cryptacus, the objective of which was to improve and adapt existent cryptanalysis methodologies and tools to the ubiquitous computing framework. The cryptanalysis implemented lies along four axes: cryptographic models, cryptanalysis of building blocks, hardware and software security engineering, and security assessment of real-world systems. The authors are top-class researchers in security and cryptography, and the contributions are of value to researchers and practitioners in these domains. This book is open access under a CC BY license.

Handbook of Computer Networks and Cyber Security

Principles and Paradigms

Springer Nature This handbook introduces the basic principles and fundamentals of cyber security towards establishing an understanding of how to protect computers from hackers and adversaries. The highly informative subject matter of this handbook, includes various concepts, models, and terminologies along with examples and illustrations to demonstrate substantial technical details of the field. It motivates the readers to exercise better protection and defense mechanisms to deal with attackers and mitigate

the situation. This handbook also outlines some of the exciting areas of future research where the existing approaches can be implemented. Exponential increase in the use of computers as a means of storing and retrieving security-intensive information, requires placement of adequate security measures to safeguard the entire computing and communication scenario. With the advent of Internet and its underlying technologies, information security aspects are becoming a prime concern towards protecting the networks and the cyber ecosystem from variety of threats, which is illustrated in this handbook. This handbook primarily targets professionals in security, privacy and trust to use and improve the reliability of businesses in a distributed manner, as well as computer scientists and software developers, who are seeking to carry out research and develop software in information and cyber security. Researchers and advanced-level students in computer science will also benefit from this reference.

Functional and Constraint Logic Programming

26th International Workshop, WFLP 2018,
Frankfurt/Main, Germany, September 6, 2018, Revised
Selected Papers

Springer This book constitutes the refereed post-conference proceedings of the 26th International Workshop on Functional and Constraint Logic Programming, WFLP 2018, held in Frankfurt/Main, Germany, in September 2018. From the 19 full papers submitted, 12 were accepted for presentation at the workshop. During a second review after the workshop, 10 papers were accepted for inclusion in this volume. The papers cover different programming areas of functional and logic programming, including code generation, verification, and debugging. They are organized in the following topical sections: compilers and code generation; debugging and testing; and foundations of functional logic programming.

Financial Cryptography and Data Security

17th International Conference, FC 2013, Okinawa, Japan,
April 1-5, 2013, Revised Selected Papers

Springer This book constitutes the thoroughly refereed post-conference proceedings of the 17th International Conference on Financial Cryptography and Data Security (FC 2013), held at Bankoku Shinryokan Busena Terrace Beach Resort, Okinawa, Japan, April 1-5, 2013. The 14 revised full papers and 17 short papers were carefully selected and reviewed from 125 submissions. The papers are grouped in the following topical sections: electronic payment (Bitcoin), usability aspects, secure computation, passwords, privacy primitives and non-repudiation, anonymity, hardware security, secure computation and secret sharing, authentication attacks and countermeasures, privacy of data and communication, and private data retrieval.

Document Image Processing

MDPI This book is a printed edition of the Special Issue "Document Image Processing" that was published in *J. Imaging*

Internet of Things and Secure Smart Environments
Successes and Pitfalls

CRC Press The main goal of Internet of Things (IoT) is to make secure, reliable, and fully automated smart environments. However, there are many technological challenges in deploying IoT. This includes connectivity and networking, timeliness, power and energy consumption dependability, security and privacy, compatibility and longevity, and network/protocol standards. Internet of Things and Secure Smart Environments: Successes and Pitfalls provides a comprehensive overview of recent research and open problems in the area of IoT research. Features: Presents cutting edge topics and research in IoT Includes contributions from leading worldwide researchers Focuses on IoT architectures for smart environments Explores security, privacy, and trust Covers data handling and management (accumulation, abstraction, storage, processing, encryption, fast retrieval, security, and privacy) in IoT for smart environments This book covers state-of-the-art problems, presents solutions, and opens research directions for researchers and scholars in both industry and academia.

Music Technology with Swing

13th International Symposium, CMMR 2017, Matosinhos,

Portugal, September 25-28, 2017, Revised Selected Papers

Springer This book constitutes the refereed proceedings of the 13th International Symposium on Music Technology with Swing, CMMR 2017, held in Matosinhos, Portugal, in September 2017. The 44 full papers presented were selected from 64 submissions. The papers are grouped in eight sections: music information retrieval, automatic recognition, estimation and classification, electronic dance music and rhythm, computational musicology, sound in practice: auditory guidance and feedback in the context of motor learning and motor adaptation, human perception in multimodal context, cooperative music networks and musical HClS, virtual and augmented reality, research and creation: spaces and modalities.

OpenMP: Memory, Devices, and Tasks

12th International Workshop on OpenMP, IWOMP 2016, Nara, Japan, October 5-7, 2016, Proceedings

Springer This book constitutes the proceedings of the 12th International Workshop on OpenMP, IWOMP 2016, held in Nara, Japan, in October 2016. The 24 full papers presented in this volume were carefully reviewed and selected from 28 submissions. They were organized in topical sections named: applications, locality, task parallelism, extensions, tools, accelerator programming, and performance evaluations and optimization.

Cyber-Physical Systems

Digital Technologies and Applications

Springer Nature This book offers ideas to help improve digital technologies and increase their efficiency during implementation and application for researchers and practitioners. The outstanding position of the book among others is that it dwells with cyber-physical systems' progress and proposes ideas and finding around digital tools and technologies and their application. A distinguished contribution is in presenting results on Digital Twins development and application, enhancing approaches of communication and information transferring between cyber-physical systems connected within the Internet of things platforms, computer linguistic as a part of cyber-physical systems, intelligent cybersecurity and computer vision systems. The target audience of this book also includes practitioners and experts, as well as state authorities and representatives of manufacturing and industry who are interested in creating and implementing of cyber-physical systems in framework of digitalization projects.

Image Analysis and Modeling in Ophthalmology

CRC Press Digital fundus images can effectively diagnose glaucoma and diabetes retinopathy, while infrared imaging can show changes in the vascular tissues. Likening the eye to the conventional camera, Image Analysis and Modeling in Ophthalmology explores the application of advanced image processing in ocular imaging. This book considers how images can be used to effectively diagnose ophthalmologic problems. It introduces multi-modality image processing algorithms as a means for analyzing subtle changes in the eye. It details eye imaging, textural imaging, and modeling, and highlights specific imaging and modeling techniques. The book covers the detection of diabetes retinopathy, glaucoma, anterior segment eye abnormalities, instruments on detection of glaucoma, and development of human eye models using computational fluid dynamics and heat transfer principles to predict inner temperatures of the eye from its surface temperature. It presents an ultrasound biomicroscopy (UBM) system for anterior chamber angle imaging and proposes an automated anterior segment eye disease classification system that can be used for early disease diagnosis and treatment management. It focuses on the segmentation of the blood vessels in high-resolution retinal images and describes the integration of the image processing methodologies in a web-based framework aimed at retinal analysis. The authors introduce the A-Levelset algorithm, explore the ARGALI system to calculate the cup-to-disc ratio (CDR), and describe the Singapore Eye Vessel Assessment (SIVA) system, a holistic tool which brings together various technologies from image processing and artificial intelligence to construct vascular models from retinal images. The text furnishes the working principles of mechanical and optical instruments for the diagnosis and healthcare administration of glaucoma, reviews state-of-the-art CDR calculation detail, and discusses the existing methods and databases. Image Analysis and Modeling in Ophthalmology includes the latest research development in the field of eye modeling and the multi-modality image processing techniques in ocular imaging. It addresses the differences, performance measures, advantages and disadvantages of various approaches, and provides extensive reviews on related fields.

Programming Languages and Systems

30th European Symposium on Programming, ESOP 2021, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2021, Luxembourg City, Luxembourg, March 27 – April 1, 2021, Proceedings

Springer Nature This open access book constitutes the proceedings of the 30th European Symposium on Programming, ESOP 2021, which was held during March 27 until April 1, 2021, as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2021. The conference was planned to take place in Luxembourg and changed to an online format due to the COVID-19 pandemic. The 24 papers included in this volume were carefully reviewed and selected from 79 submissions. They deal with fundamental issues in the specification, design, analysis, and implementation of programming languages and systems.

Document Analysis Systems

14th IAPR International Workshop, DAS 2020, Wuhan, China, July 26–29, 2020, Proceedings

Springer Nature This book constitutes the refereed proceedings of the 14th IAPR International Workshop on Document Analysis Systems, DAS 2020, held in Wuhan, China, in July 2020. The 40 full papers presented in this book were carefully reviewed and selected from 57 submissions. The papers are grouped in the following topical sections: character and text recognition; document image processing; segmentation and layout analysis; word embedding and spotting; text detection; and font design and classification. Due to the Corona pandemic the conference was held as a virtual event.

Noise and Vibration Mitigation for Rail Transportation Systems

Proceedings of the 13th International Workshop on Railway Noise, 16-20 September 2019, Ghent, Belgium

Springer Nature This book reports on the 13th International Workshop on Railway Noise (IWRN13), held on September 16-20, 2019, in Ghent, Belgium. It gathers original peer-reviewed papers describing the latest developments in railway noise and vibration, as well as state-of-the-art reviews written by authoritative experts in the field. The different papers cover a broad range of railway noise and vibration topics, such as rolling noise, wheel squeal, noise perception, prediction methods, measurements and monitoring, and vehicle interior noise. Further topics include rail roughness, rail corrugation and grinding, high-speed rail and aerodynamic noise, structure-borne noise, ground-borne noise and vibration, and resilient track forms. Policy, criteria and regulation are also discussed. Offering extensive and timely information to both scientists and engineers, this book will help them in their daily efforts to identify, understand and solve problems related to railway noise and vibration, and to achieve the ultimate goal of reducing the environmental impact of railway systems.

Social Signal Processing

Cambridge University Press This book provides comprehensive, authoritative surveys covering the modeling, automatic detection, analysis, and synthesis of nonverbal social signals.

Wireless and Satellite Systems

11th EAI International Conference, WiSATS 2020, Nanjing, China, September 17-18, 2020, Proceedings,

Part I

Springer Nature This two-volume set LNICST 357-358 constitutes the post-conference proceedings of the 11th EAI International Conference on Wireless and Satellite Services, WiSATS 2020, held in Nanjing, China, in September 2020. The 91 full papers and workshop papers were carefully reviewed and selected from 200 submissions. Part I - LNICST 357 - details original research and results of wireless and satellite technology for a smarter global communication architecture. The theme of WiSATS 2020 is "Intelligent Wireless and Satellite Communications for Beyond 5G". Part II - LNICST 358 - presents 6 workshop papers: High Speed Space Communication and Space Information Networks (HSSCSIN); Integrated Space and Onboard Networks (ISON); Intelligent Satellite Operations, Managements, and Applications (ISOMA); Intelligent Satellites in Future Space Networked System (ISFSNS); Satellite Communications, Networking and Applications (SCNA); Satellite Internet of Things; Trusted Data Sharing, Secure Communication (SIOTDSSC).

Mobile Mapping Technologies

MDPI Mobile Mapping technologies have seen a rapid growth of research activity and interest in the last years, due to the increased demand of accurate, dense and geo-referenced 3D data. Their main characteristic is the ability of acquiring 3D information of large areas dynamically. This versatility has expanded their application fields from the civil engineering to a broader range (industry, emergency response, cultural heritage...), which is constantly widening. This increased number of needs, some of them specially challenging, is pushing the Scientific Community, as well as companies, towards the development of innovative solutions, ranging from new hardware / open source software approaches and integration with other devices, up to the adoption of artificial intelligence methods for the automatic extraction of salient features and quality assessment for performance verification. The aim of the present book is to cover the most relevant topics and trends in Mobile Mapping Technology, and also to introduce the new tendencies of this new paradigm of geospatial science.

Intelligent Virtual Agents

11th International Conference, IVA 2011, Reykjavik, Iceland, September 15-17, 2011. Proceedings

Springer This book constitutes the refereed proceedings of the 11th International Conference on Intelligent Virtual Agents, IVA 2011, held in Reykjavik, Island, in September 2011. The 18 revised full papers and 27 revised short papers presented together with 25 poster papers were carefully reviewed and selected from 91 submissions. The papers are organized in topical sections on social and dramatic interaction; guides and relational agents; nonverbal behavior; adaptation and coordination; listening and feedback; frameworks and tools; cooperation and copresence; emotion; poster abstracts.

Handbook of Augmented Reality

Springer Science & Business Media Augmented Reality (AR) refers to the merging of a live view of the physical, real world with context-sensitive, computer-generated images to create a mixed reality. Through this augmented vision, a user can digitally interact with and adjust information about their surrounding environment on-the-fly. Handbook of Augmented Reality provides an extensive overview of the current and future trends in Augmented Reality, and chronicles the dramatic growth in this field. The book includes contributions from world experts in the field of AR from academia, research laboratories and private industry. Case studies and examples throughout the handbook help introduce the basic concepts of AR, as well as outline the Computer Vision and Multimedia techniques most commonly used today. The book is intended for a wide variety of readers including academicians, designers, developers, educators, engineers, practitioners, researchers, and graduate students. This book can also be beneficial for business managers, entrepreneurs, and investors.

Index of Conference Proceedings

Annual cumulation

Intelligent Control and Innovative Computing

Springer Science & Business Media A large international conference on Advances in Intelligent Control and Innovative Computing was held in Hong Kong, March 16-18, 2011, under the auspices of the International MultiConference of Engineers and Computer Scientists (IMECS 2010). The IMECS is organized by the International Association of Engineers (IAENG). Intelligent Control and Computer Engineering contains 25 revised and extended research articles written by prominent researchers participating in the conference. Topics covered include artificial intelligence, control engineering, decision supporting systems, automated planning, automation systems, systems identification, modelling and simulation, communication systems, signal processing, and industrial applications. Intelligent Control and Innovative Computing offers the state of the art of tremendous advances in intelligent control and computer engineering and also serves as an excellent reference text for researchers and graduate students, working on intelligent

control and computer engineering.

The Mathematics of Language

12th Biennial Conference, MOL 12, Nara, Japan, September 6-8, 2011, Proceedings

Springer Science & Business Media This book constitutes the proceedings of the 12th Biennial Meeting on Mathematics in Language, MOL 12, held in Nara, Japan, in September 2011. Presented in this volume are 12 carefully selected papers, as well as the paper of the invited speaker Andreas Maletti. The papers cover such diverse topics as formal languages (string and tree transducers, grammar-independent syntactic structures, probabilistic and weighted context-free grammars, formalization of minimalist syntax), parsing and unification, lexical and compositional semantics, statistical language models, and theories of truth.

Memoirs of the Institute of Scientific and Industrial Research, Osaka University

Sensing and Signal Processing in Smart Healthcare

MDPI In the last decade, we have witnessed the rapid development of electronic technologies that are transforming our daily lives. Such technologies are often integrated with various sensors that facilitate the collection of human motion and physiological data and are equipped with wireless communication modules such as Bluetooth, radio frequency identification, and near-field communication. In smart healthcare applications, designing ergonomic and intuitive human-computer interfaces is crucial because a system that is not easy to use will create a huge obstacle to adoption and may significantly reduce the efficacy of the solution. Signal and data processing is another important consideration in smart healthcare applications because it must ensure high accuracy with a high level of confidence in order for the applications to be useful for clinicians in making diagnosis and treatment decisions. This Special Issue is a collection of 10 articles selected from a total of 26 contributions. These contributions span the areas of signal processing and smart healthcare systems mostly contributed by authors from Europe, including Italy, Spain, France, Portugal, Romania, Sweden, and Netherlands. Authors from China, Korea, Taiwan, Indonesia, and Ecuador are also included.

ECUMICT 2014

Proceedings of the European Conference on the Use of Modern Information and Communication Technologies, Gent, March 2014

Springer Science & Business Media This proceeding present the outcome of the 6th. European Conference on the Use of Modern Information and Communication Technologies. The ECUMICT 2014 was hold in Gent in March 2014 and presented recent research, that has a close relationship with practical implementation of Security for mobile communications and data access Interface technology for mobile devices Application development for mobile devices Positioning and localization, asset tracking and tracing Design and applications of RFID systems Developments in the framework of IoT and M2M communications Design and applications of WSNs Embedded programming for WSNs New developments and applications of WPAN/WLAN standards Mobile multimedia systems Wireless telecommunication networks and mobile services Optimization techniques in wireless networks Developments in ad-hoc and mesh networks Applications of digital signal processing for mobile applications Applications of MEMs in WSNs

Johan van Benthem on Logic and Information Dynamics

Springer This book illustrates the program of Logical-Informational Dynamics. Rational agents exploit the information available in the world in delicate ways, adopt a wide range of epistemic attitudes, and in that process, constantly change the world itself. Logical-Informational Dynamics is about logical systems putting such activities at center stage, focusing on the events by which we acquire information and change attitudes. Its contributions show many current logics of information and change at work, often in multi-agent settings where social behavior is essential, and often stressing Johan van Benthem's pioneering work in establishing this program. However, this is not a Festschrift, but a rich tapestry for a field with a wealth of strands of its own. The reader will see the state of the art in such topics as information update, belief change, preference, learning over time, and strategic interaction in games. Moreover, no tight boundary has been enforced, and some chapters add more general mathematical or philosophical foundations or links to current trends in computer science. The theme of this book lies at the interface of many disciplines. Logic is the main methodology, but the various chapters cross easily between mathematics, computer science, philosophy, linguistics, cognitive and social sciences, while also ranging from pure theory to empirical work. Accordingly, the authors of this book represent a wide variety of original thinkers from different research communities. And their interconnected themes challenge at the same time how we think of logic.

philosophy and computation. Thus, very much in line with van Benthem's work over many decades, the volume shows how all these disciplines form a natural unity in the perspective of dynamic logicians (broadly conceived) exploring their new themes today. And at the same time, in doing so, it offers a broader conception of logic with a certain grandeur, moving its horizons beyond the traditional study of consequence relations.

Biometric Systems

MDPI Because of the accelerating progress in biometrics research and the latest nation-state threats to security, this book's publication is not only timely but also much needed. This volume contains seventeen peer-reviewed chapters reporting the state of the art in biometrics research: security issues, signature verification, fingerprint identification, wrist vascular biometrics, ear detection, face detection and identification (including a new survey of face recognition), person re-identification, electrocardiogram (ECT) recognition, and several multi-modal systems. This book will be a valuable resource for graduate students, engineers, and researchers interested in understanding and investigating this important field of study.

Sensor Networks for Sustainable Development

CRC Press Recent advances in technology and manufacturing have made it possible to create small, powerful, energy-efficient, cost-effective sensor nodes for specialized telecommunication applications—nodes "smart" enough to be capable of adaptation, self-awareness, and self-organization. *Sensor Networks for Sustainable Development* examines sensor network technologies that increase the quality of human life and encourage societal progress with minimal effect on the earth's natural resources and environment. Organized as a collection of articles authored by leading experts in the field, this valuable reference captures the current state of the art and explores applications where sensor networks are used for sustainable development in: Agriculture Environment Energy Healthcare Transportation Disaster management Beneficial to designers and planners of emerging telecommunication networks, researchers in related industries, and students and academia seeking to learn about the impact of sensor networks on sustainable development, *Sensor Networks for Sustainable Development* provides scientific tutorials and technical information about smart sensor networks and their use in everything from remote patient monitoring to improving safety on the roadways and beyond.

Advances in Dynamic Games

Theory, Applications, and Numerical Methods for Differential and Stochastic Games

Springer Science & Business Media This book focuses on various aspects of dynamic game theory, presenting state-of-the-art research and serving as a testament to the vitality and growth of the field of dynamic games and their applications. Its contributions, written by experts in their respective disciplines, are outgrowths of presentations originally given at the 14th International Symposium of Dynamic Games and Applications held in Banff. *Advances in Dynamic Games* covers a variety of topics, ranging from evolutionary games, theoretical developments in game theory and algorithmic methods to applications, examples, and analysis in fields as varied as mathematical biology, environmental management, finance and economics, engineering, guidance and control, and social interaction. Featured throughout are valuable tools and resources for researchers, practitioners, and graduate students interested in dynamic games and their applications to mathematics, engineering, economics, and management science.