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Sensors
Applications

Volume 2

Sensors Applications Sensors In Intelligent Buildings Vol 2

Guido Tschulena,Andreas Lahrmann

Sensors Applications Sensors In Intelligent Buildings Vol 2:

Sensor Technologies for Civil Infrastructures, Volume 2 Jerome P. Lynch,Hoon Sohn,Ming L. Wang,2014-05-19 Sensors are used for civil infrastructure performance assessment and health monitoring and have evolved significantly through developments in materials and methodologies Sensor Technologies for Civil Infrastructure Volume II provides an overview of sensor data analysis and case studies in assessing and monitoring civil infrastructures Part one focuses on sensor data interrogation and decision making with chapters on data management technologies data analysis techniques for damage detection and structural damage detection Part two is made up of case studies in assessing and monitoring specific structures such as bridges towers buildings dams tunnels pipelines and roads Sensor Technologies for Civil Infrastructure provides a standard reference for structural and civil engineers electronics engineers and academics with an interest in the field Provides an in depth examination of sensor data management and analytical techniques for fault detection and localization looking at prognosis and life cycle assessment Includes case studies in assessing structures such as bridges buildings super tall towers dams tunnels wind turbines railroad tracks nuclear power plants offshore structures levees and pipelines   *Smart Buildings Digitalization, Two Volume Set* O.V. Gnana Swathika,K. Karthikeyan,Sanjeevikumar Padmanaban,2022-05-27 A smart building is the state of art in building with features that facilitates informed decision making based on the available data through smart metering and IoT sensors This set provides useful information for developing smart buildings including significant improvement of energy efficiency implementation of operational improvements and targeting sustainable environment to create an effective customer experience It includes case studies from industrial results which provide cost effective solutions and integrates the digital SCADE solution Describes complete implication of smart buildings via industrial commercial and community platforms Systematically defines energy efficient buildings employing power consumption optimization techniques with inclusion of renewable energy sources Covers data centre and cyber security with excellent data storage features for smart buildings Includes systematic and detailed strategies for building air conditioning and lighting Details smart building security propulsion This set is aimed at graduate students researchers and professionals in building systems architectural and electrical engineering   **Sensors in Household Appliances** Guido Tschulena,Andreas Lahrmann,2006-03-06 Taken as a whole this series covers all major fields of application for commercial sensors as well as their manufacturing techniques and major types As such the series does not treat bulk sensors but rather places strong emphasis on microsensors microsystems and integrated electronic sensor packages Each of the individual volumes is tailored to the needs and queries of readers from the relevant branch of industry A competent and comprehensive survey of current and future sensors applied in electronic household devices Engineers and scientists will find here reports of an increase in product safety efficiency and consumer comfort coupled with a decrease in power consumption and water wastewater The book also looks at the customer appeal of advanced intelligent appliances

showing the heightened need for comprehensive information on their potentials and limitations **Advanced Control Systems for Electric Drives** Adel Merabet,2020-12-07 This book provides extensive information about advanced control techniques in electric drives Multiple control and estimation methods are studied for position and speed tracking in different drives Artificial intelligence tools such as fuzzy logic and neural networks are used for specific applications using electric drives , Smart City Networks Stamatina Th. Rassia,Panos M. Pardalos,2017-10-04 This book both analyzes and synthesizes new cutting edge theories and methods for future design implementations in smart cities through interdisciplinary synergizing of architecture technology and the Internet of Things IoT Implementation of IoT enables the collection and data exchange of objects embedded with electronics software sensors and network connectivity Recently IoT practices have moved into uniquely identifiable objects that are able to transfer data directly into networks This book features new technologically advanced ideas highlighting properties of smart future city networks Chapter contributors include theorists computer scientists mathematicians and interdisciplinary planners who currently work on identifying theories essential elements and practices where the IoT can impact the formation of smart cities and sustainability via optimization network analyses data mining mathematical modeling and engineering Moreover this book includes research based theories and real world practices aimed toward graduate researchers experts practitioners and the general public interested in architecture engineering mathematical modeling industrial design computer science technologies and related fields Sensors Update: Sensor Technology - Applications - Markets Henry Baltes,W. Göpel,J. Hesse,2003 **Intelligent Systems and Applications** Kohei Arai,Supriya Kapoor,Rahul Bhatia,2018-11-07 Gathering the Proceedings of the 2018 Intelligent Systems Conference IntelliSys 2018 this book offers a remarkable collection of chapters covering a wide range of topics in intelligent systems and computing and their real world applications The Conference attracted a total of 568 submissions from pioneering researchers scientists industrial engineers and students from all around the world These submissions underwent a double blind peer review process after which 194 including 13 poster papers were selected to be included in these proceedings As intelligent systems continue to replace and sometimes outperform human intelligence in decision making processes they have made it possible to tackle many problems more effectively This branching out of computational intelligence in several directions and the use of intelligent systems in everyday applications have created the need for such an international conference which serves as a venue for reporting on cutting edge innovations and developments This book collects both theory and application based chapters on all aspects of artificial intelligence from classical to intelligent scope Readers are sure to find the book both interesting and valuable as it presents state of the art intelligent methods and techniques for solving real world problems along with a vision of future research directions *Handbook of Humidity Measurement, Volume 2* Ghenadii Korotcenkov,2019-01-25 Because of unique water properties humidity affects many living organisms including humans and materials Humidity control is important in various fields from

production management to creating a comfortable living environment The second volume of The Handbook of Humidity Measurement is entirely devoted to the consideration of different types of solid state devices developed for humidity measurement This volume discusses the advantages and disadvantages about the capacitive resistive gravimetric hygrometric field ionization microwave Schottky barrier Kelvin probe field effect transistor solid state electrochemical and thermal conductivity based humidity sensors Additional features include Provides a comprehensive analysis of the properties of humidity sensitive materials used for the development of such devices Describes numerous strategies for the fabrication and characterization of humidity sensitive materials and sensing structures used in sensor applications Explores new approaches proposed for the development of humidity sensors Considers conventional devices such as phsychometers gravimetric mechanical hair electrolytic child mirror hygrometers etc which were used for the measurement of humidity for several centuries Handbook of Humidity Measurement Volume 2 Electronic and Electrical Humidity Sensors provides valuable information for practicing engineers measurement experts laboratory technicians project managers in industries and national laboratories as well as university students and professors interested in solutions to humidity measurement tasks as well as in understanding fundamentals of any gas sensor operation and development **Handbook of Force Transducers** Dan Mihai Stefanescu,2011-03-16 Part I introduces the basic Principles and Methods of Force Measurement according to a classification into a dozen of force transducers types resistive inductive capacitive piezoelectric electromagnetic electrodynamic magnetoelastic galvanomagnetic Hall effect vibrating wires micro resonators acoustic and gyroscopic Two special chapters refer to force balance techniques and to combined methods in force measurement Part II discusses the Strain Gauge Force Transducers Components evolving from the classical force transducer to the digital intelligent one with the incorporation of three subsystems sensors electromechanics and informatics The elastic element EE is the heart of the force transducer and basically determines its performance A 12 type elastic element classification is proposed stretched compressed column or tube bending beam bending and or torsion shaft middle bent bar with fixed ends shear beam bending ring yoke or frame diaphragm axial stressed torus axisymmetrical and voluminous EE with emphasis on the optimum location of the strain gauges The main properties of the associated Wheatstone bridge best suited for the parametrical transducers are examined together with the appropriate electronic circuits for SGFTs The handbook fills a gap in the field of Force Measurement both experts and newcomers no matter of their particular interest finding a lot of useful and valuable subjects in the area of Force Transducers in fact it is the first specialized monograph in this inter and multidisciplinary field Proceedings of the XV International symposium Symorg 2016 Ondrej Jaško,Sanja Marinković,2016-06-03 **Applications of Artificial Intelligence in 5G and Internet of Things** Vinod M. Kapse,Lalit Garg,Pavan Kumar Shukla,Varadraj Gurupur,Amit Krishna Dwivedi,2025-04-30 This is the proceedings of the 1st International Conference on Applications of AI in 5G and IoT ICAAI5GI2024 It brings together ground breaking research and

practical insights into integrating Artificial Intelligence within 5G and the Internet of Things IoT This compilation highlights the latest advancements and innovative solutions emerging at the intersection of AI 5G and IoT technologies It also delves into a wide array of topics including the role of AI in enhancing 5G network efficiency the development of intelligent IoT devices and the creation of smart environments powered by these cutting edge technologies It further showcases key findings on AI driven applications in 5G for seamless communication improved connectivity and advanced data processing techniques along with IoT solutions for smart cities industrial automation healthcare and beyond It would be a valuable read for researchers engineers and professionals in AI 5G IoT and related fields It serves as an essential resource for those seeking to stay at the forefront of technological advancements in these rapidly evolving domains *Security Issues in Communication Devices, Networks and Computing Models* Budati Anil Kumar,Akella Ramakrishna,Goutham Makkena,Gheorghita Ghinea,2025-05-08 The importance of addressing security issues in communication devices networks and computing models in Industry 5 0 cannot be overstated Industry 5 0 represents the next phase in the evolution of manufacturing and industrial processes characterized by increased connectivity automation and the integration of smart technologies Here are several reasons why security is crucial in this context Industry 5 0 involves the convergence of information technology IT and operational technology OT making industrial control systems susceptible to cyber threats A breach in security could compromise critical infrastructure such as power grids transportation systems and water treatment plants Securing computing models and networks is vital for protecting critical infrastructure and ensuring the safety and stability of essential services Industry 5 0 encourages the use of advanced technologies such as the Industrial Internet of Things IIoT and edge computing leading to increased data exchange and collaboration Security issues could result in the theft or manipulation of intellectual property proprietary designs and sensitive business information Robust security measures are necessary to safeguard intellectual property maintain a competitive edge and foster innovation within Industry 5 0 ecosystems Communication devices and networks in Industry 5 0 transmit vast amounts of sensitive data including production data supply chain information and operational metrics Ensuring the integrity and confidentiality of this data is crucial for informed decision making and maintaining a competitive advantage Security breaches could lead to data manipulation unauthorized access and exposure of sensitive information jeopardizing the trust of stakeholders and partners Industry 5 0 involves interconnected supply chains where multiple entities collaborate and share data Weaknesses in communication devices and networks can be exploited to compromise the integrity of the entire supply chain impacting product quality and safety Securing communication channels and computing models is vital for maintaining the trustworthiness of the supply chain ensuring product quality and minimizing the risk of counterfeit components In summary addressing security issues in communication devices networks and computing models is fundamental to the successful implementation of Industry 5 0 It not only protects the assets and operations of organizations but also contributes to the

overall safety reliability and sustainability of advanced industrial systems **Fundamentals of Sensor Network Programming** S. Sitharama Iyengar,Nandan Parameshwaran,Vir V. Phoha,Narayanaswamy Balakrishnan,Chuka D. Okoye,2011-03-29 This book provides the basics needed to develop sensor network software and supplements it with many case studies covering network applications It also examines how to develop onboard applications on individual sensors how to interconnect these sensors and how to form networks of sensors although the major aim of this book is to provide foundational principles of developing sensor networking software and critically examine sensor network applications

Advances and Applications of DSmT for Information Fusion (Collected Works. Volume 5) Florentin Smarandache,Jean Dezert,Albena Tchamova,2023-12-27 This fifth volume on Advances and Applications of DSmT for Information Fusion collects theoretical and applied contributions of researchers working in different fields of applications and in mathematics and is available in open access The collected contributions of this volume have either been published or presented after disseminating the fourth volume in 2015 available at fs unm edu DSmT book4 pdf or www onera fr sites default files 297 2015 DSmT Book4 pdf in international conferences seminars workshops and journals or they are new The contributions of each part of this volume are chronologically ordered First Part of this book presents some theoretical advances on DSmT dealing mainly with modified Proportional Conflict Redistribution Rules PCR of combination with degree of intersection coarsening techniques interval calculus for PCR thanks to set inversion via interval analysis SIVIA rough set classifiers canonical decomposition of dichotomous belief functions fast PCR fusion fast inter criteria analysis with PCR and improved PCR5 and PCR6 rules preserving the quasi neutrality of quasi vacuous belief assignment in the fusion of sources of evidence with their Matlab codes Because more applications of DSmT have emerged in the past years since the apparition of the fourth book of DSmT in 2015 the second part of this volume is about selected applications of DSmT mainly in building change detection object recognition quality of data association in tracking perception in robotics risk assessment for torrent protection and multi criteria decision making multi modal image fusion coarsening techniques recommender system levee characterization and assessment human heading perception trust assessment robotics biometrics failure detection GPS systems inter criteria analysis group decision human activity recognition storm prediction data association for autonomous vehicles identification of maritime vessels fusion of support vector machines SVM Silx Furtif RUST code library for information fusion including PCR rules and network for ship classification Finally the third part presents interesting contributions related to belief functions in general published or presented along the years since 2015 These contributions are related with decision making under uncertainty belief approximations probability transformations new distances between belief functions non classical multi criteria decision making problems with belief functions generalization of Bayes theorem image processing data association entropy and cross entropy measures fuzzy evidence numbers negator of belief mass human activity recognition information fusion for breast cancer therapy imbalanced data classification and hybrid techniques

mixing deep learning with belief functions as well We want to thank all the contributors of this fifth volume for their research works and their interests in the development of DSmT and the belief functions We are grateful as well to other colleagues for encouraging us to edit this fifth volume and for sharing with us several ideas and for their questions and comments on DSmT through the years We thank the International Society of Information Fusion www isif org for diffusing main research works related to information fusion including DSmT in the international fusion conferences series over the years Florentin Smarandache is grateful to The University of New Mexico U S A that many times partially sponsored him to attend international conferences workshops and seminars on Information Fusion Jean Dezert is grateful to the Department of Information Processing and Systems DTIS of the French Aerospace Lab Office National d E tudes et de Recherches Ae rospatiales Palaiseau France for encouraging him to carry on this research and for its financial support Albena Tchamova is first of all grateful to Dr Jean Dezert for the opportunity to be involved during more than 20 years to follow and share his smart and beautiful visions and ideas in the development of the powerful Dezert Smarandache Theory for data fusion She is also grateful to the Institute of Information and Communication Technologies Bulgarian Academy of Sciences for sponsoring her to attend international conferences on Information Fusion *Smart Buildings Digitalization* O.V. Gnana Swathika,K. Karthikeyan,Sanjeevikumar Padmanaban,2022-02-24 This book discusses various artificial intelligence and machine learning applications concerning smart buildings It includes how renewable energy sources are integrated into smart buildings using suitable power electronic devices The deployment of advanced technologies with monitoring protection and energy management features is included along with a case study on automation Overall the focus is on architecture and related applications such as power distribution microgrids photovoltaic systems and renewable energy aspects The chapters define smart building concepts and their related benefits FEATURES Discusses various aspects of the role of the Internet of things IoT and machine learning in smart buildings Explains pertinent system architecture and focuses on power generation and distribution Covers power enabling technologies for smart cities Includes photovoltaic system integrated smart buildings This book is aimed at graduate students researchers and professionals in building systems engineering architectural engineering and electrical engineering *Building Blocks for IoT Analytics Internet-of-Things Analytics* John Soldatos,2022-09-01 Internet of Things IoT Analytics are an integral element of most IoT applications as it provides the means to extract knowledge drive actuation services and optimize decision making IoT analytics will be a major contributor to IoT business value in the coming years as it will enable organizations to process and fully leverage large amounts of IoT data which are nowadays largely underutilized The Building Blocks of IoT Analytics is devoted to the presentation the main technology building blocks that comprise advanced IoT analytics systems It introduces IoT analytics as a special case of BigData analytics and accordingly presents leading edge technologies that can be deployed in order to successfully confront the main challenges of IoT analytics applications Special emphasis is paid in the presentation of technologies for IoT streaming and

semantic interoperability across diverse IoT streams Furthermore the role of cloud computing and BigData technologies in IoT analytics are presented along with practical tools for implementing deploying and operating non trivial IoT applications Along with the main building blocks of IoT analytics systems and applications the book presents a series of practical applications which illustrate the use of these technologies in the scope of pragmatic applications Technical topics discussed in the book include Cloud Computing and BigData for IoT analyticsSearching the Internet of ThingsDevelopment Tools for IoT Analytics ApplicationsIoT Analytics as a ServiceSemantic Modelling and Reasoning for IoT AnalyticsIoT analytics for Smart BuildingsIoT analytics for Smart CitiesOperationalization of IoT analyticsEthical aspects of IoT analyticsThis book contains both research oriented and applied articles on IoT analytics including several articles reflecting work undertaken in the scope of recent European Commission funded projects in the scope of the FP7 and H2020 programmes These articles present results of these projects on IoT analytics platforms and applications Even though several articles have been contributed by different authors they are structured in a well thought order that facilitates the reader either to follow the evolution of the book or to focus on specific topics depending on his her background and interest in IoT and IoT analytics technologies The compilation of these articles in this edited volume has been largely motivated by the close collaboration of the co authors in the scope of working groups and IoT events organized by the Internet of Things Research Cluster IERC which is currently a part of EU s Alliance for Internet of Things Innovation AIOTI   *IoT and Analytics in Renewable Energy Systems (Volume 1)* O.V. Gnana Swathika,K. Karthikeyan,Sanjeevikumar Padmanaban,2023-08-11 Smart grid technologies include sensing and measurement technologies advanced components aided with communications and control methods along with improved interfaces and decision support systems Smart grid techniques support the extensive inclusion of clean renewable generation in power systems Smart grid use also promotes energy saving in power systems Cyber security objectives for the smart grid are availability integrity and confidentiality Five salient features of this book are as follows AI and IoT in improving resilience of smart energy infrastructure IoT smart grids and renewable energy an economic approach AI and ML towards sustainable solar energy Electrical vehicles and smart grid Intelligent condition monitoring for solar and wind energy systems   Hybrid Wireless-Power Line Communications for Indoor IoT Networks Xu Zhu,Kainan Zhu,Mohammad Heggo,2020-04-30 This exciting resource covers the fundamentals of wireless and PLC technologies Different types of wireless and PLC technologies used for indoor IoT applications are described The channel models for both wireless and power line communications are introduced highlighting the main challenges for these types of communications inside the indoor environment The book explores the hybrid technologies with television white space TVWS very high frequency VHF wireless technology and broadband PLC BPLC for indoor high speed IoT networks A TVWS standardized BPLC system is proposed which integrates the requirement of primary user sensing and the permissible transmission power spectral density PSD for TVWS users into BPLC standard regarding VHF band access The hybrid ultra high frequency UHF

wireless powerline sensor networks with a focus on enlarging the network lifetime via cross layer optimization is presented Hybrid video sensor networks HVSNs with high data rate requirement are explored Through the joint design of video encoding rate aggregate power consumption channel access control along with link rate allocation a distributed algorithm is developed which divides the computational burden among all nodes with much lower communication overhead The effectiveness of the cross layer designs are evaluated through extensive simulation results   *Machine Learning and Intelligent Communications* Xuemai Gu,Gongliang Liu,Bo Li,2018-01-20 This two volume set constitutes the refereed post conference proceedings of the Second International Conference on Machine Learning and Intelligent Communications MLICOM 2017 held in Weihai China in August 2017 The 143 revised full papers were carefully selected from 225 submissions The papers are organized thematically in machine learning intelligent positioning and navigation intelligent multimedia processing and security intelligent wireless mobile network and security cognitive radio and intelligent networking intelligent internet of things intelligent satellite communications and networking intelligent remote sensing visual computing and three dimensional modeling green communication and intelligent networking intelligent ad hoc and sensor networks intelligent resource allocation in wireless and cloud networks intelligent signal processing in wireless and optical communications intelligent radar signal processing intelligent cooperative communications and networking

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