

Advanced Fire Detection Using Multi Signature Alarm Algorithms

This book constitutes the refereed proceedings of the 4th International Symposium on Ubiquitous Computing Systems, UCS 2007, held in Tokyo, Japan, in November 2007. The 16 revised full papers and eight revised short papers presented were carefully reviewed and selected from 96 submissions. The papers are organized in topical sections on security and privacy, context awareness, sensing systems and sensor network, middleware, modeling and social aspects, smart devices, and network. Developed through an extensive process of consultation with leading professionals and health and safety institutions worldwide, the new, expanded, and long-awaited Fourth Edition of this well-respected reference provides comprehensive, timely, and accurate coverage of occupational health and safety. Aimed at the specialist and non-specialist alike, such as lawyers, doctors, nurses, engineers, toxicologists, regulators, and other safety professionals, this compendium is organized and designed to provide the most critical information in an easy-to-read format. It uses more than 1,000 illustrations, a new attractive layout, and provides thousands of cited references that provide up-to-date literature reviews. Indexes by subject, chemical name, and author make navigating through information quick and easy. The CD-ROM version includes the same information as the print volumes, plus the benefit of a powerful search and retrieval

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engine to make searching for information as easy as a mouse click. Here's a sampling of what's covered in each volume and the CD-ROM: Volume 1: The body, health care, management and policy, tools and approaches Volume 2: Psychological and organizational factors, hazards, the environment, accidents, and safety Volume 3: Chemicals, industries and occupations Volume 4: Index by subject, chemical name, author, cross-reference guide, directory of contributors.

Automatic sprinklers systems are the primary fire protection system in warehouse and storage facilities. The effectiveness of this strategy has come into question due to the challenges presented by modern warehouse facilities, including increased storage heights and areas, automated storage retrieval systems (ASRS), limitations on water supplies, and changes in firefighting strategies. The application of fire detection devices used to provide early warning and notification of incipient warehouse fire events is being considered as a component of modern warehouse fire protection. *Fire Detection in Warehouse Facilities* provides technical information to aid in the development of guidelines and standards for the use of fire detection technologies for modern warehouse fire protection. The authors share their thorough literature review, analyze characteristic fire hazards for modern warehouse facilities, and identify information gaps in the field. The book concludes with recommendations for the development of guidelines and standards for the use of detection technologies in warehouse fire protection design, including a research plan for implementation. This book is intended

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for practitioners seeking an understanding of the issues surrounding warehouse design and fire protection. The book will also prove valuable for fire hazard researchers and those involved with fire department response, applicable detection systems, and fire growth suppression.

Advanced Fire Detection Using Multi-Signature Alarm Algorithms Ubiquitous Computing Systems 4th International Symposium, UCS 2007, Tokyo, Japan, November 25-28, 2007, Proceedings Springer

The importance and ubiquity of wireless networks in the modern age justifies the depth and scope of the chapters included in this book, with its special focus on sensors. Topics covered include MAC protocols, with one contribution offering a literature review on them. Energy efficiency is also important, with several chapters addressing cooperative beamforming, modern spatial-diversity techniques and MEMS. Hardware issues are addressed by a batch of chapters, on extending network coverage areas, CMOS RF transceivers, the use of an accelerometer sensor module and a fall-detection monitoring system and a couple of contributions on hierarchical paradigms in wireless sensor networks. More mathematical approaches are also included, with chapters on data aggregation tree construction and distributed localization algorithms.

This book describes the signal, image and video processing methods and techniques for fire detection and provides a thorough and practical overview of this important subject, as a number of new methods are emerging. This book will serve as a reference

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for signal processing and computer vision, focusing on fire detection and methods for volume sensors. Applications covered in this book can easily be adapted to other domains, such as multi-modal object recognition in other safety and security problems, with scientific importance for fire detection, as well as video surveillance. Coverage includes: Camera Based Techniques Multi-modal/Multi-sensor fire analysis Pyro-electric Infrared Sensors for Flame Detection Large scale fire experiments Wildfire detection from moving aerial platforms The basics of signal, image and video processing based fire detection The latest fire detection methods and techniques using computer vision Non-conventional fire detectors: Fire detection using volumetric sensors Recent large-scale fire experiments and their results New and emerging technologies and areas for further research

Integrating Scale in Remote Sensing and GIS serves as the most comprehensive documentation of the scientific and methodological advances that have taken place in integrating scale and remote sensing data. This work addresses the invariants of scale, the ability to change scale, measures of the impact of scale, scale as a parameter in process models, and the implementation of multiscale approaches as methods and techniques for integrating multiple kinds of remote sensing data collected at varying spatial, temporal, and radiometric scales. Researchers, instructors, and students alike will benefit from a guide that has been pragmatically divided into four thematic groups: scale issues and multiple scaling; physical scale as applied to natural resources; urban

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scale; and human health/social scale. Teeming with insights that elucidate the significance of scale as a foundation for geographic analysis, this book is a vital resource to those seriously involved in the field of GIScience.

The Instrument and Automation Engineers' Handbook (IAEH) is the #1 process automation handbook in the world. Volume two of the Fifth Edition, Analysis and Analyzers, describes the measurement of such analytical properties as composition. Analysis and Analyzers is an invaluable resource that describes the availability, features, capabilities, and selection of analyzers used for determining the quality and compositions of liquid, gas, and solid products in many processing industries. It is the first time that a separate volume is devoted to analyzers in the IAEH. This is because, by converting the handbook into an international one, the coverage of analyzers has almost doubled since the last edition. Analysis and Analyzers: Discusses the advantages and disadvantages of various process analyzer designs Offers application- and method-specific guidance for choosing the best analyzer Provides tables of analyzer capabilities and other practical information at a glance Contains detailed descriptions of domestic and overseas products, their features, capabilities, and suppliers, including suppliers' web addresses Complete with 82 alphabetized chapters and a thorough index for quick access to specific information, Analysis and Analyzers is a must-have reference for instrument and automation engineers working in the chemical, oil/gas, pharmaceutical, pollution, energy, plastics, paper, wastewater, food, etc. industries. About the eBook The most important new feature of the IAEH, Fifth Edition is its availability as an eBook. The eBook provides the same content as the print edition, with the addition of thousands of web addresses so that readers can reach suppliers or reference books and articles on the hundreds

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of topics covered in the handbook. This feature includes a complete bidders' list that allows readers to issue their specifications for competitive bids from any or all potential product suppliers.

This volume, in conjunction with the two volumes CICS 0002 and LNAI 4682, constitutes the refereed proceedings of the Third International Conference on Intelligent Computing held in Qingdao, China, in August 2007. The 139 full papers published here were carefully reviewed and selected from among 2,875 submissions. Collectively, these papers represent some of the most important findings and insights into the field of intelligent computing.

This book constitutes the refereed proceedings of the 4th International Conference on Progress in Cultural Heritage Preservation, EuroMed 2012, held in Lemesos, Cyprus, in October/November 2012. The 95 revised full papers were carefully reviewed and selected from 392 submissions. The papers are organized in topical sections on digital data acquisition technologies and data processing in cultural heritage, 2D and 3D data capture methodologies and data processing in cultural heritage, 2D and 3D GIS in cultural heritage, virtual reality in archaeology and historical research, standards, metadata, ontologies and semantic processing in cultural heritage, data management, archiving and presentation of cultural heritage content, ICT assistance in monitoring and restoration, innovative topics related to the current and future implementation, use, development and exploitation of the EU CH identity card, innovative technologies to assess, monitor and adapt to climate change, digital data acquisition technologies and data processing in cultural heritage, 2D and 3D data capture methodologies and data processing in cultural heritage, on-site and remotely sensed data collection, reproduction techniques and rapid prototyping in cultural heritage, 2D and 3D GIS in cultural

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heritage, innovative graphics applications and techniques, libraries and archives in cultural heritage, tools for education, documentation and training in CH, standards, metadata, ontologies and semantic processing in cultural heritage, damage assessment, diagnoses and monitoring for the preventive conservation and maintenance of CH, information management systems in CH, European research networks in the field of CH, non-destructive diagnosis technologies for the safe conversation and traceability of cultural assets.

This proceedings book presents state-of-the-art research innovations in computational vision and bio-inspired techniques. Due to the rapid advances in the emerging information, communication and computing technologies, the Internet of Things, cloud and edge computing, and artificial intelligence play a significant role in the computational vision context. In recent years, computational vision has contributed to enhancing the methods of controlling the operations in biological systems, like ant colony optimization, neural networks, and immune systems. Moreover, the ability of computational vision to process a large number of data streams by implementing new computing paradigms has been demonstrated in numerous studies incorporating computational techniques in the emerging bio-inspired models. The book reveals the theoretical and practical aspects of bio-inspired computing techniques, like machine learning, sensor-based models, evolutionary optimization, and big data modeling and management, that make use of effectual computing processes in the bio-inspired systems. As such it contributes to the novel research that focuses on developing bio-inspired computing solutions for various domains, such as human–computer interaction, image processing, sensor-based single processing, recommender systems, and facial recognition, which play an indispensable part in smart agriculture, smart city, biomedical and business intelligence

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applications.

Since the launch of the first of the Advanced Very High Resolution Radiometers (AVHRRs) in 1978, the data from these instruments has used for a wide range of non-meteorological applications. In this book, the author describes satellite system, AVHRRs, control of the spacecraft, and data- recovery arrangements. The book covers processing of the data to extract useful environmental information. The applications of the data to marine problems, based primarily on the study of sea-surface temperatures from the thermal-infrared channels of the instrument, are considered, as well as the study of vegetation and a whole variety of other land-based and hydrological applications.

This volume includes over 30 chapters, written by experts from around the world. It examines numerous management strategies for dealing with drought and scarcity. These strategies include management approaches for different regions, such as coastal, urban, rural, and agricultural areas. It offers multiple strategies for monitoring, assessing, and forecasting drought through the use of remote sensing and GIS tools. It also presents drought mitigation management strategies, such as groundwater management, rainwater harvesting, conservations practices, and more.

This book addresses direct application of mathematics to fire engineering problems Gives background interpretation for included mathematical methods Illustrates a step-by-step detailed solution to solving relevant problems Includes pictorial representation of the problems Discusses a comprehensive topic list in the realm of engineering mathematics topics including basic concepts of Algebra, Trigonometry and Statistics

Introduction Increasing conflagrations of forests and other lands throughout the world

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during the 1980s and 1990s have made fires in forest and other vegetation emerge as an important global concern. Both the number and severity of wildfires (accidental fires) and the application of fire for land-use change, seem to have increased dramatically compared to previous decades of the twentieth century. The adverse consequences of extensive wildfires cross national boundaries and have global impacts. Fire regimes are changing with climate variability and population dynamics. Satellite remote sensing technology has the potential to play an important role for monitoring fires and their consequences, as well as in operational fire management. In response to this need as well as to respond to other needs for more rapid progress in forest observation, in 1997 the Committee on Earth Observation Satellites (CEOS) initiated Global Observation of Forest Cover (GOFC) as an international pilot project to test the concepts of an Integrated Global Observing System. The GOFC program is currently part of the Global Terrestrial Observing System (GTOS). GOFC was designed to bring together data providers and information users to make information products from satellite and in-situ observations of forests more readily available worldwide. Fire Monitoring and Mapping was formed as one of three basic components of GOFC. This book contains eighteen contributions authored by scientists who represent the most active international research and development institutions, aiming at coordinating and improving international efforts for user-oriented systems and products. These papers were initially presented at a GOFC Fire Workshop held at the Joint Research Centre, Ispra. The

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volume is a contribution of the GOFC Forest Fire Monitoring and Mapping Implementation Team to the Interagency Task Force Working Group Wildland Fire of the UN International Strategy for Disaster Reduction (ISDR).

This book features the manuscripts accepted for the Special Issue “Applications in Electronics Pervading Industry, Environment and Society—Sensing Systems and Pervasive Intelligence” of the MDPI journal *Sensors*. Most of the papers come from a selection of the best papers of the 2019 edition of the “Applications in Electronics Pervading Industry, Environment and Society” (APPLEPIES) Conference, which was held in November 2019. All these papers have been significantly enhanced with novel experimental results. The papers give an overview of the trends in research and development activities concerning the pervasive application of electronics in industry, the environment, and society. The focus of these papers is on cyber physical systems (CPS), with research proposals for new sensor acquisition and ADC (analog to digital converter) methods, high-speed communication systems, cybersecurity, big data management, and data processing including emerging machine learning techniques. Physical implementation aspects are discussed as well as the trade-off found between functional performance and hardware/system costs.

Written by leading global experts, including pioneers in the field, the four-volume set on *Hyperspectral Remote Sensing of Vegetation, Second Edition*, reviews existing state-of-the-art knowledge, highlights advances made in different areas, and provides guidance

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for the appropriate use of hyperspectral data in the study and management of agricultural crops and natural vegetation. Volume IV, *Advanced Applications in Remote Sensing of Agricultural Crops and Natural Vegetation* discusses the use of hyperspectral or imaging spectroscopy data in numerous specific and advanced applications, such as forest management, precision farming, managing invasive species, and local to global land cover change detection. It emphasizes the importance of hyperspectral remote sensing tools for studying vegetation processes and functions as well as the appropriate use of hyperspectral data for vegetation management practices. The concluding chapter provides readers with useful guidance on the highlights and essence of Volume IV through the editors' perspective. *Key Features of Volume IV: Guides readers to harness the capabilities of the most recent advances in applying hyperspectral remote sensing technology to the study of terrestrial vegetation. Includes specific applications on agriculture, crop management practices, study of crop stress and diseases, crop characteristics based on inputs (e.g., nitrogen, irrigation), study of vegetation impacted by heavy metals, gross and net primary productivity studies, light use efficiency studies, crop water use and actual evapotranspiration studies, phenology monitoring, land use and land cover studies, global change studies, plant species detection, wetland and forest characterization and mapping, crop productivity and crop water productivity mapping, and modeling. Encompasses hyperspectral or imaging spectroscopy data in narrow wavebands used across visible,*

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red-edge, near-infrared, far-infrared, shortwave infrared, and thermal portions of the spectrum. Explains the implementation of hyperspectral remote sensing data processing mechanisms in a standard, fast, and efficient manner for their applications. Discusses cloud computing to overcome hyperspectral remote sensing massive big data challenges. Provides hyperspectral analysis of rocky surfaces on the earth and other planetary systems.

Learn the ins and outs of fire protection system hardware! Comprised of 37 illustrated chapters from the recently published Fire Protection Handbook, the new Operation of Fire Protection Systems helps you make better, more informed decisions about safety. Over 30 leading fire protection experts contributed their expertise to this comprehensive look at how fire detection, alarm, and suppression systems work, and what you need to do to keep them operational. You'll be able to oversee outside contractors, perform in-house tasks, and conduct inspections, with: Coverage of detection and alarm systems including notification appliances, fire alarm system interfaces, and gas and vapor detection systems and monitors Guidance on automatic sprinklers, water spray protection, standpipe and hose systems, and hazards such as Microbiologically Influenced Corrosion (MIC) Facts about direct halon replacement agents, foam, and all types of extinguishing agents and systems Facility managers, AHJ's, and fire service pros gain the knowledge needed to keep equipment online and pass promotional exams.

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The International Conference on Electronics, Information Technology and Intellectualization (ICEITI2014) was dedicated to build a high-level international academic communication forum for international experts and scholars. This first conference of an annual series was held in Pengcheng, Shenzhen, China 16-17 August 2014. Many prestigious experts

This book constitutes the refereed proceedings of the 12th Latin American Robotics Symposium and Third Brazilian Symposium on Robotics, LARS 2015 / SBR 2015, held in Uberlândia, Brazil, in October/November 2015. The 17 revised full papers presented were carefully reviewed and selected from 80 submissions. The selected papers present a complete and solid reference of the state-of-the-art of intelligent robotics and automation research, covering the following areas: autonomous mobile robots, tele-operated and telepresence robots, human-robot interaction, trajectory control for mobile robots, autonomous vehicles, service-oriented robotic systems, semantic mapping, environment mapping, visual odometry, applications of RGB-D sensors, humanoid and biped robots, Robocup soccer robots, robot control, path planning, multiple vehicles and teams of robots. /div

The Cleantech conference, which runs parallel with NSTI's Nanotech, is designed to promote advancements in traditional technologies, emerging technologies, and clean business practices, covering important developments in renewable energy, clean technologies, business and policy, bio-energy, and novel technologies, as well as

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Remote sensing data and techniques have been widely used for disaster monitoring and assessment. In particular, recent advances in sensor technologies and artificial intelligence-based modeling are very promising for disaster monitoring and readying responses aimed at reducing the damage caused by disasters. This book contains eleven scientific papers that have studied novel approaches applied to a range of natural disasters such as forest fire, urban land subsidence, flood, and tropical cyclones.

Assuming only neighbor-neighbor interaction among vehicles, this monograph develops distributed consensus strategies that ensure that the information states of all vehicles in a network converge to a common value. Readers learn to deal with groups of autonomous vehicles in aerial, terrestrial, and submarine environments. Plus, they get the tools needed to overcome impaired communication by using constantly updated neighbor-neighbor interchange.

This book presents selected papers from the 2021 International Conference on Electrical and Electronics Engineering (ICEEE 2020), held on January 2, 2021. The book focuses on the current developments in various fields of electrical and electronics engineering, such as power generation, transmission and distribution; renewable energy sources and technologies; power electronics and applications; robotics; artificial intelligence and IoT; control, automation and instrumentation; electronics devices,

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circuits and systems; wireless and optical communication; RF and microwaves; VLSI; and signal processing. The book is a valuable resource for academics and industry professionals alike.

The rapid growth of the world population has resulted in an exponential expansion of both urban and agricultural areas. Identifying and managing such earthly changes in an automatic way poses a worth-addressing challenge, in which remote sensing technology can have a fundamental role to answer—at least partially—such demands. The recent advent of cutting-edge processing facilities has fostered the adoption of deep learning architectures owing to their generalization capabilities. In this respect, it seems evident that the pace of deep learning in the remote sensing domain remains somewhat lagging behind that of its computer vision counterpart. This is due to the scarce availability of ground truth information in comparison with other computer vision domains. In this book, we aim at advancing the state of the art in linking deep learning methodologies with remote sensing image processing by collecting 20 contributions from different worldwide scientists and laboratories. The book presents a wide range of methodological advancements in the deep learning field that come with different applications in the remote sensing landscape such as wildfire and postdisaster damage detection, urban forest mapping, vine disease and pavement marking detection, desert road mapping, road and building outline extraction, vehicle and vessel detection, water identification, and text-to-image matching.

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This volume presents the proceedings of the Fourth International Conference on the Development of Biomedical Engineering in Vietnam which was held in Ho Chi Minh City as a Mega-conference. It is kicked off by the Regenerative Medicine Conference with the theme “BUILDING A FACE” USING A REGENERATIVE MEDICINE APPROACH”, endorsed mainly by the Tissue Engineering and Regenerative Medicine International Society (TERMIS). It is followed by the Computational Medicine Conference, endorsed mainly by the Computational Surgery International Network (COSINE) and the Computational Molecular Medicine of German National Funding Agency; and the General Biomedical Engineering Conference, endorsed mainly by the International Federation for Medical and Biological Engineering (IFMBE). It featured the contributions of 435 scientists from 30 countries, including: Australia, Austria, Belgium, Canada, China, Finland, France, Germany, Hungary, India, Iran, Italy, Japan, Jordan, Korea, Malaysia, Netherlands, Pakistan, Poland, Russian Federation, Singapore, Spain, Switzerland, Taiwan, Turkey, Ukraine, United Kingdom, United States, Uruguay and Viet Nam.

Coal and Peat Fires: A Global Perspective, Volumes 1–4, presents a fascinating collection of research about prehistoric and historic coal and peat fires. Magnificent illustrations of fires and research findings from countries around the world are featured—a totally new contribution to science. This third of four volumes in the collection, Coal Fires – Case Studies, examines in detail specific coal fires chronicled in

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a number of locations around the world including Brazil, the Czech Republic, Germany, Malawi, Poland, Russia, Spain, Tajikistan, the United States, Venezuela, and others. Authored by world-renowned experts in coal and peat fires Global in scope—countries from around the world are represented Includes beautiful color illustrations, lively presentations, important research data, and informative videos

This book constitutes the refereed proceedings of the 12th International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2010, held in Changchun, China, in August 2010. The 78 revised full papers presented were carefully reviewed and selected from 144 submissions. The papers are organized in topical sections on image processing and analysis; segmentation and edge detection; 3D and depth; algorithms and optimizations; video processing; surveillance and camera networks; machine vision; remote sensing; and recognition, classification and tracking.

The papers included in this issue of ECS Transactions were originally presented in the symposium ¿Sensor Arrays and Multi-Dimensional Sensor Systems¿, held during the 212th meeting of The Electrochemical Society, in Washington, DC, from October 7 to 12, 2007.

This volume serves as the post-conference proceedings for the Second GeoSensor Networks Conference that was held in Boston, Massachusetts in October 2006. The conference addressed issues related to the collection,

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management, processing, analysis, and delivery of real-time geospatial data using distributed geosensor networks. This represents an evolution of the traditional static and centralized geocomputational paradigm, to support the collection of both temporally and spatially high-resolution, up-to-date data over a broad geographic area, and to use sensor networks as actuators in geographic space. Sensors in these environments can be static or mobile, and can be used to passively collect information about the environment or, eventually, to actively influence it. The research challenges behind this novel paradigm extend the frontiers of traditional GIS research further into computer science, addressing issues like data stream processing, mobile computing, location-based services, temporal-spatial queries over geosensor networks, adaptable middleware, sensor data integration and mining, automated updating of geospatial databases, VR modeling, and computer vision. In order to address these topics, the GSN 2006 conference brought together leading experts in these fields, and provided a three-day forum to present papers and exchange ideas.

Land Remote Sensing and Global Environmental Change: The Science of ASTER and MODIS is an edited compendium of contributions dealing with ASTER and MODIS satellite sensors aboard NASA's Terra and Aqua platforms launched as part of the Earth Observing System fleet in 1999 and 2002

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respectively. This volume is divided into six sections. The first three sections provide insights into the history, philosophy, and evolution of the EOS, ASTER and MODIS instrument designs and calibration mechanisms, and the data systems components used to manage and provide the science data and derived products. The latter three sections exclusively deal with ASTER and MODIS data products and their applications, and the future of these two classes of remotely sensed observations.

This book provides a comprehensive and advanced overview of the basic theory of thermal remote sensing and its application in hydrology, agriculture, and forestry. Specifically, the book highlights the main theory, assumptions, advantages, drawbacks, and perspectives of these methods for the retrieval and validation of surface temperature/emissivity and evapotranspiration from thermal infrared remote sensing. It will be an especially valuable resource for students, researchers, experts, and decision-makers whose interest focuses on the retrieval and validation of surface temperature/emissivity, the estimation and validation of evapotranspiration at satellite pixel scale, and the application of thermal remote sensing. Both Prof. Huajun Tang and Prof. Zhao-Liang Li work at the Chinese Academy of Agricultural Sciences (CAAS), China.

Chemical vapor sensing arrays have grown in popularity over the past two

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decades, finding applications for tasks such as process control, environmental monitoring, and medical diagnosis. This is the first in-depth analysis of the process of choosing materials and components for these "electronic noses", with special emphasis on computational methods. For a view of component selection with an experimental perspective, readers may refer to the complementary volume of Integrated Microanalytical Systems entitled "Combinatorial Methodologies for Sensor Materials."

Advanced Remote Sensing: Terrestrial Information Extraction and Applications, Second Edition, is a thoroughly updated application-based reference that provides a single source on the mathematical concepts necessary for remote sensing data gathering and assimilation. It presents state-of-the-art techniques for estimating land surface variables from a variety of data types, including optical sensors like RADAR and LIDAR. The book provides scientists in a number of different fields, including geography, geophysics, geology, atmospheric science, environmental science, planetary science and ecology with access to critically-important data extraction techniques and their virtually unlimited applications. While rigorous enough for the most experienced of scientists, the techniques presented are well designed and integrated, making the book's content intuitive and practical in its implementation. Provides a comprehensive overview of many

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practical methods and algorithms Offers descriptions of the principles and procedures of the state-of-the-art in remote sensing Includes real-world case studies and end-of-chapter exercises Contains thoroughly revised chapters, newly developed applications and updated examples

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