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Sensor For Air

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Handbook of Wireless Sensor Networks: Issues and Challenges in Current Scenario's Determination of Avocado Fruit Ripening Stage Using an Electronic Nose with Fuzzy Logic Algorithm

Proceedings of ICECIT-2018

Proceedings of 3rd ICMETE 2019

Proceedings of ICECIT-2015

Proceedings of the 18th International Conference on Remote Engineering and Virtual Instrumentation

Proceedings of ICMEET 2017

Proceedings of the 2nd International Conference on Communication and Computing Systems (ICCCS 2018), December 1-2, 2018, Gurgaon, India

Innovations in Computer Science and Engineering Proceedings of ICTIS 2020, Volume 2

Emerging Trends in Electrical, Communications and Information Technologies

Communication and Computing Systems

Environmental, Chemical and Medical Sensors

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The Greenhouse Effect, Climatic Change, and
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Basic Understanding, Technology and
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Thermal Infrared Remote Sensing
Microelectronics, Electromagnetics and
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24th International Conference, ICONIP 2017,
Guangzhou, China, November 14–18, 2017,
Proceedings, Part V
The Earth's Biosphere
Sensors
Next Generation Information Processing System
Electronic Devices, Circuits, and Systems for

Biomedical Applications
Proceedings of International Conference on
Communication, Circuits, and Systems
Internet of Things and Connected Technologies
An Introductory Course
Proceeding of SSIC 2019
Micro-Electronics and Telecommunication
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KIRSTEN MYA

Handbook of
Wireless
Sensor
Networks:
Issues and
Challenges in
Current
Scenario's
Springer

There were two reasons that induced me to plan and to organize this book, the first was the lack of a text

entirely devoted to the subject of gas sensors, notwithstanding some books devoted to the various kind of chemical sensors have recently been published. The second reason was the need of introducing the basic topics of gas detection mechanisms to a growing number of researchers

active in research and development laboratories of industries and universities. The field of chemical sensors is indeed in fast and consistent growth, as it is proved by the increased number of participants to the congresses that were recently held on this subject, namely the

Third Meeting on Chemical Sensors (September 24 - 26, 1990, Cleveland), Transducers' 91 (June 24 - 27, 1991, S. Francisco) and EUROSENSOR S V (September 30 - October 3, 1991, Rome). Therefore, this book is mainly intended as a reference text for researchers with a MS degree in physics, chemistry and electrical engineering; it reports the last progresses in the R. & D.

and in the technology of gas sensors. I choose to deal specifically with the topic of gas sensors because these devices show a very large number of applications in the domestic and industrial field and they are characterized by a great effort of research and development. Determination of Avocado Fruit Ripening Stage Using an Electronic Nose with Fuzzy Logic Algorithm Elsevier Nanomaterials in Diagnostic

Tools and Devices provides a complete overview of the significance of nanomaterials in fabricating selective and performance enhanced nanodevices. It is an interdisciplinary reference that includes contributing subjects from nanomaterials , biosensors, materials science, biomedical instrumentation and medicinal chemistry. This book is authored by experts in the field of

nanomaterial synthesis, modeling, and biosensor applications, and provides insight to readers working in various science fields on the latest advancements in smart and miniaturized nanodevices. These devices enable convenient real-time diagnosis of diseases at clinics rather than laboratories, and include implantable devices that cause less irritation and have improved

functionality. Research in the field of nanomaterials is growing rapidly, creating a significant impact across different science disciplines and nanotechnology industries. This synthesis and modeling of nanomaterials has led to many technology breakthroughs and applications, especially in medical science. Provides a distinctive platform for the latest trends in the

synthesis of smart nanomaterials for nanodevices in disease diagnostics. Presents a broad range of advancements and applications of lateral-flow nanostrip for point-of-care applications. Examines smart-phone based nanodevices for field-based diagnosis with accurate information. Comprises more than 70 figures and illustrations that will help readers visualize and easily

understand the role of nanodevices in the field of nanomedicine. Serves as an ideal reference for those studying smart nanomaterials, biosensors, and nanodevices for real-time and in-situ clinical diagnosis and drug delivery. Proceedings of ICECIT-2018 Springer. A comprehensive overview of Earth's biosphere, written with scientific rigor and essay-like flair. In his latest book,

Vaclav Smil tells the story of the Earth's biosphere from its origins to its near and long-term future. He explains the workings of its parts and what is known about their interactions. With essay-like flair, he examines the biosphere's physics, chemistry, biology, geology, oceanography, energy, climatology, and ecology, as well as the changes caused by human activity. He

provides both the basics of the story and surprising asides illustrating critical but often neglected aspects of biospheric complexity. Smil begins with a history of the modern idea of the biosphere, focusing on the development of the concept by Russian scientist Vladimir Vernadsky. He explores the probability of life elsewhere in the universe, life's evolution and metabolism,

and the biosphere's extent, mass, productivity, and grand-scale organization. Smil offers fresh approaches to such well-known phenomena as solar radiation and plate tectonics and introduces lesser-known topics such as the quarter-power scaling of animal and plant metabolism across body sizes and metabolic pathways. He also examines two sets of fundamental relationships

that have profoundly influenced the evolution of life and the persistence of the biosphere: symbiosis and the role of life's complexity as a determinant of biomass productivity and resilience. And he voices concern about the future course of human-caused global environmental change, which could compromise the biosphere's integrity and threaten the survival of modern civilization.

Proceedings of 3rd ICMETE 2019
Springer
Science & Business Media
Electronic Devices, Circuits, and Systems for Biomedical Applications: Challenges and Intelligent Approaches explains the latest information on the design of new technological solutions for low-power, high-speed efficient biomedical devices, circuits and systems. The book outlines new methods

to enhance system performance, provides key parameters to explore the electronic devices and circuit biomedical applications, and discusses innovative materials that improve device performance, even for those with smaller dimensions and lower costs. This book is ideal for graduate students in biomedical engineering and medical informatics, biomedical engineers, medical

device designers, and researchers in signal processing. Presents major design challenges and research potential in biomedical systems Walks through essential concepts in advanced biomedical system design Focuses on healthcare system design for low power-efficient and highly-secured biomedical electronics *Proceedings of ICECIT-2015* Springer Gas Sensors Based on

Conducting Metal Oxides: Basic Understanding , Technology and Applications focuses on two distinct types of gas sensors based on conducting metal oxides. Ion conduction, applied in so-called solid-state electrolytic sensors for one, and electronic conduction used in semiconductivity gas sensors for the other. The well-known λ -probe, a key component to optimize

combustion in car engines, is an example of the former type, and the in-cabin car air-quality control SnO₂ and WO₂ sensor array stands for the semiconductivity type. Chapters cover basic aspects of functioning principles and describe the technologies and challenges of present and future sensors. Provides reader background and context on sensors, principles, fabrication

and applications Includes chapters on specific technological applications, such as exhaust sensors, environmental sensors, explosive gases alarms and more Presents a structured presentation that allows for quick reference of vital information
Proceedings of the 18th International Conference on Remote Engineering and Virtual Instrumentation Springer

This book comprises selected papers presented at the International Conference on Wireless Communication (ICWiCOM 2021), which is organized by the Department of Electronics and Telecommunication Engineering, D. J. Sanghvi College of Engineering, Mumbai, India, during October 8–9, 2021. The book focuses on specific topics of wireless communication

n, like signal and image processing applicable to wireless domains, networking, microwave and antenna design, and telemedicine systems. Covering three main areas - Antenna Design, Networking & Signal Processing, Embedded Systems and Internet of Things (IoT) - it is a valuable resource for postgraduate and doctoral students.

Proceedings of ICMEET 2017 Springer

Nature Semiconductor Gas Sensors, Second Edition, summarizes recent research on basic principles, new materials and emerging technologies in this essential field. Chapters cover the foundation of the underlying principles and sensing mechanisms of gas sensors, include expanded content on gas sensing characteristics, such as response, sensitivity and

cross-sensitivity, present an overview of the nanomaterials utilized for gas sensing, and review the latest applications for semiconductor gas sensors, including environmental monitoring, indoor monitoring, medical applications, CMOS integration and chemical warfare agents. This second edition has been completely updated, thus ensuring it reflects

current literature and the latest materials systems and applications. Includes an overview of key applications, with new chapters on indoor monitoring and medical applications Reviews developments in gas sensors and sensing methods, including an expanded section on gas sensor theory Discusses the use of nanomaterials in gas sensing, with new chapters on single-layer

graphene sensors, graphene oxide sensors, printed sensors, and much more
Proceedings of the 2nd International Conference on Communication and Computing Systems (ICCCS 2018), December 1-2, 2018, Gurgaon, India Springer Nature
 We are delighted to introduce the proceeding of the first edition of the International Conference on Science and

Technology (ICoST) that was held in Claro Hotel, May 2-3, 2019. It was organized by Faculty of Science and Technology, Universitas Islam Negeri Alauddin Makassar in partnership with Forum Dekan Fakultas Sains dan Teknologi PTKIN. The theme of the ICoST is "Roles and Challenges of Science and Technology in Guaranteeing Halal Products in the Industrial Revolution 4.0". The

Indonesian government has begun to respond this industrial change by launching the roadmap of 'Making Indonesia 4.0' as a strategy to ease Indonesia's steps to become one of the new powers in Asia in April 2018. This roadmap provides a clear direction for the movement of the national industry in the future, including a focus on developing priority sectors that will become

Indonesia's strength towards Industry 4.0. The proceeding of ICoST contains the scientific research, written by the academicians, researchers, practitioners, and government elements who have the same thoughts about the effort to develop the society's ability to adapt the advancement of science and technology in the global competition to face the industrial

revolution 4.0. We are also very grateful to all keynote speakers and committee members, willing to act as referee for their time and efforts to keep our conference going well. In the future, we expect the ICoST will be able to provide another scientific atmosphere and stimulate more participants to join this conference. Innovations in Computer Science and Engineering CRC Press

This book presents selected papers from the 3rd International Conference on Micro-Electronics and Telecommunication Engineering, held at SRM Institute of Science and Technology, Ghaziabad, India, on 30-31 August 2019. It covers a wide variety of topics in micro-electronics and telecommunication engineering, including micro-electronic engineering, computational remote sensing, computer science and intelligent systems, signal and image processing, and information and communication technology. *Proceedings of ICTIS 2020, Volume 2* Springer Nature. The book proposes new technologies and discusses innovative solutions to various problems in the field of communication, circuits, and systems, as reflected in high-quality papers presented at International Conference on Communication, Circuits, and Systems (IC3S 2020) held at KIIT, Bhubaneswar, India from 16 - 18 October 2020. It brings together new works from academicians, scientists, industry professionals, scholars, and students together to exchange research outcomes and open up new horizons in the areas of signal

processing, communications, and devices. Emerging Trends in Electrical, Communications and Information Technologies MIT Press
 The field of medical instrumentation is interdisciplinary, having interest groups both in medical and engineering professions. The number of professionals associated directly with the medical instrumentation field is increasing rapidly due to

intensive penetration of medical instruments in the health care sector. In addition, the necessity and desire to know about how instruments work is increasingly apparent. Most dictionaries/encyclopedias do not illustrate properly the details of the bio-medical instruments which can add to the knowledge base of the person on those instruments. Often, the technical terms are not

covered in the dictionaries. Unless there is a seamless integration of the physiological bases and engineering principles underlying the working of a wide variety of medical instruments in a publication, the curiosity of the reader will not be satisfied. The purpose of this book is to provide an essential reference which can be used both by the engineering as well as medical communities

<p>to understand the technology and applications of a wide range of medical instruments. The book is so designed that each medical instrument/technology will be assigned one or two pages, and approximately 450 medical instruments are referenced in this edition. <i>Communication and Computing Systems</i> European Alliance for Innovation CLOUD AND IOT-BASED VEHICULAR</p>	<p>AD HOC NETWORKS This book details the architecture behind smart cars being fitted and connected with vehicular cloud computing, IoT and VANET as part of the intelligent transport system (ITS). As technology continues to weave itself more tightly into everyday life, socioeconomic development has become intricately tied to ever-evolving innovations. An example of this is the</p>	<p>technology being developed to address the massive increase in the number of vehicles on the road, which has resulted in more traffic congestion and road accidents. This challenge is being addressed by developing new technologies to optimize traffic management operations. This book describes the state-of-the-art of the recent developments of Internet of</p>
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Things (IoT) and cloud computing-based concepts that have been introduced to improve Vehicular Ad-Hoc Networks (VANET) with advanced cellular networks such as 5G networks and vehicular cloud concepts. 5G cellular networks provide consistent, faster and more reliable connections within the vehicular mobile nodes. By 2030, 5G networks will deliver the

virtual reality content in VANET which will support vehicle navigation with real time communications capabilities, improving road safety and enhanced passenger comfort. In particular, the reader will learn: A range of new concepts in VANETs, integration with cloud computing and IoT, emerging wireless networking and computing models New VANET

architecture, technology gap, business opportunities, future applications, worldwide applicability, challenges and drawbacks Details of the significance of 5G Networks in VANET, vehicular cloud computing, edge (fog) computing based on VANET. Audience The book will be widely used by researchers, automotive industry engineers, technology developers,

system architects, IT specialists, policymakers and students. **Environmental, Chemical and Medical Sensors** Springer
Sensors: An Introductory Course provides an essential reference on the fundamentals of sensors. The book is designed to help readers in developing skills and the understanding required in order to implement a wide range of sensors that are commonly used in our

daily lives. This book covers the basic concepts in the sensors field, including definitions and terminologies. The physical sensing effects are described, and devices which utilize these effects are presented. The most frequently used organic and inorganic sensors are introduced and the techniques for implementing them are discussed. R Machine Learning By Example Springer Science &

Business Media
Understand the fundamentals of machine learning with R and build your own dynamic algorithms to tackle complicated real-world problems successfully
About This Book Get to grips with the concepts of machine learning through exciting real-world examples
Visualize and solve complex problems by using power-packed R constructs and

its robust packages for machine learning. Learn to build your own machine learning system with this example-based practical guide. Who This Book Is For If you are interested in mining useful information from data using state-of-the-art techniques to make data-driven decisions, this is a go-to guide for you. No prior experience with data science is required, although basic

knowledge of R is highly desirable. Prior knowledge in machine learning would be helpful but is not necessary. What You Will Learn Utilize the power of R to handle data extraction, manipulation, and exploration techniques. Use R to visualize data spread across multiple dimensions and extract useful features. Explore the underlying mathematical and logical concepts that

drive machine learning algorithms. Dive deep into the world of analytics to predict situations correctly. Implement R machine learning algorithms from scratch and be amazed to see the algorithms in action. Write reusable code and build complete machine learning systems from the ground up. Solve interesting real-world problems using machine learning and R as the journey

unfolds
Harness the
power of
robust and
optimized R
packages to
work on
projects that
solve real-
world
problems in
machine
learning and
data science
In Detail Data
science and
machine
learning are
some of the
top buzzwords
in the
technical
world today.
From retail
stores to
Fortune 500
companies,
everyone is
working hard
to making
machine
learning give

them data-
driven insights
to grow their
business. With
powerful data
manipulation
features,
machine
learning
packages, and
an active
developer
community, R
empowers
users to build
sophisticated
machine
learning
systems to
solve real-
world data
problems. This
book takes
you on a data-
driven journey
that starts
with the very
basics of R
and machine
learning and
gradually
builds upon

the concepts
to work on
projects that
tackle real-
world
problems.
You'll begin by
getting an
understanding
of the core
concepts and
definitions
required to
appreciate
machine
learning
algorithms
and concepts.
Building upon
the basics,
you will then
work on three
different
projects to
apply the
concepts of
machine
learning,
following
current trends
and cover
major

algorithms as well as popular R packages in detail. These projects have been neatly divided into six different chapters covering the worlds of e-commerce, finance, and social-media, which are at the very core of this data-driven revolution. Each of the projects will help you to understand, explore, visualize, and derive insights depending upon the domain and algorithms. Through this

book, you will learn to apply the concepts of machine learning to deal with data-related problems and solve them using the powerful yet simple language, R. Style and approach The book is an enticing journey that starts from the very basics to gradually pick up pace as the story unfolds. Each concept is first defined in the larger context of things succinctly, followed by a detailed

explanation of their application. Each topic is explained with the help of a project that solves a real-world problem involving hands-on work thus giving you a deep insight into the world of machine learning. The Greenhouse Effect, Climatic Change, and Ecosystems Springer Nature This book discusses various machine learning & cognitive

science approaches, presenting high-throughput research by experts in this area. Bringing together machine learning, cognitive science and other aspects of artificial intelligence to help provide a roadmap for future research on intelligent systems, the book is a valuable reference resource for students, researchers and industry practitioners wanting to keep abreast

of recent developments in this dynamic, exciting and profitable research field. It is intended for postgraduate students, researchers, scholars and developers who are interested in machine learning and cognitive research, and is also suitable for senior undergraduate courses in related topics. Further, it is useful for practitioners dealing with advanced data processing,

applied mathematicians, developers of software for agent-oriented systems and developers of embedded and real-time systems. *ICOST 2019*
Apress
Learn how to use a Raspberry Pi in conjunction with an Arduino to build a basic robot with advanced capabilities. Getting started in robotics does not have to be difficult. This book is an insightful and rewarding introduction to robotics and a

catalyst for further directed study. You'll be led step by step through the process of building a robot that uses the power of a Linux based computer paired with the simplicity of Arduino. You'll learn why the Raspberry Pi is a great choice for a robotics platform; its strengths as well as its shortcomings; how to overcome these limitations by implementing an Arduino; and the basics

of the Python programming language as well as some of the more powerful features. With the Raspberry Pi you can give your project the power of a Linux computer, while Arduino makes interacting with sensors and motors very easy. These two boards are complimentary in their functions; where one falters the other performs admirably. The book also includes

references to other great works to help further your growth in the exciting, and now accessible, field of smart robotics. As a bonus, the final chapter of the book demonstrates the real power of the Raspberry Pi by implementing a basic vision system. Using OpenCV and a standard USB web cam, you will build a robot that can chase a ball. What You'll Learn Install Raspbian, the operating system that

drives the Raspberry Pi Drive motors through an I2C motor controller Read data through sensors attached to an Arduino Who This Book Is For Hobbyists and students looking for a rapid start in robotics. It assumes no technical background. Readers are guided to pursue the areas that interest them in more detail as they learn. *Emerging Trends in Electrical, Communicatio ns, and*

Information Technologies Springer Nature The book features original papers from the 2nd International Conference on Smart IoT Systems: Innovations and Computing (SSIC 2019), presenting scientific work related to smart solution concepts. It discusses computational collective intelligence, which includes interactions between smart devices, smart environments

and smart interactions, as well as information technology support for such areas. It also describes how to successfully approach various government organizations for funding for business and the humanitarian technology development projects. Thanks to the high-quality content and the broad range of the topics covered, the book appeals to researchers pursuing advanced

studies.
Proceedings of
 ICCET 2020,
 Volume 2
 Springer
 This book
 presents the
 proceedings of
 the
 International
 Conference on
 Computer
 Networks, Big
 Data and IoT
 (ICCBI-2018),
 held on
 December
 19-20, 2018
 in Madurai,
 India. In
 recent years,
 advances in
 information
 and
 communicatio
 n technologies
 [ICT] have
 collectively
 aimed to
 streamline the
 evolution of
 internet

applications.
 In this
 context,
 increasing the
 ubiquity of
 emerging
 internet
 applications
 with an
 enhanced
 capability to
 communicate
 in a
 distributed
 environment
 has become a
 major need for
 existing
 networking
 models and
 applications.
 To achieve
 this, Internet
 of Things [IoT]
 models have
 been
 developed to
 facilitate a
 smart
 interconnectio
 n and
 information

exchange
 among
 modern
 objects -
 which plays an
 essential role
 in every
 aspect of our
 lives. Due to
 their
 pervasive
 nature,
 computer
 networks and
 IoT can easily
 connect and
 engage
 effectively
 with their
 network users.
 This vast
 network
 continuously
 generates
 data from
 heterogeneou
 s devices,
 creating a
 need to utilize
 big data,
 which
 provides new

and unprecedented opportunities to process these huge volumes of data. This International Conference on Computer Networks, Big Data, and Internet of Things [ICCBI] brings together state-of-the-art research work, which briefly describes advanced IoT applications in the era of big data. As such, it offers valuable insights for researchers and scientists involved in

developing next-generation, big-data-driven IoT applications to address the real-world challenges in building a smartly connected environment. *Basic Understanding, Technology and Applications* Springer The volume contains 94 best selected research papers presented at the Third International Conference on Micro Electronics, Electromagnetics and

Telecommunications (ICMEET 2017) The conference was held during 09-10, September, 2017 at Department of Electronics and Communication Engineering, BVRIT Hyderabad College of Engineering for Women, Hyderabad, Telangana, India. The volume includes original and application based research papers on microelectronics, electromagnet

ics, telecommunications, wireless communications, signal/speech/video processing and embedded systems.

Semiconductor or Gas Sensors
Springer Science & Business Media
This book explores various challenging problems and applications areas of wireless sensor networks (WSNs), and identifies the current issues and future research challenges. Discussing the latest developments and advances, it covers all aspects of in WSNs, from architecture to protocols design, and from algorithm development to synchronization issues. As such the book is an essential reference resource for undergraduate and postgraduate students as well as scholars and academics working in the field.

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