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DAMT & NCON 2020
Trends and Applications in Information Systems and Technologies
Programming with MicroPython
Recent Trends in Engineering and Technology (NCRTET-2017)
Internet of Things and Its Applications
7th International Conference on the Development of Biomedical Engineering in Vietnam (BME7)
Nature-Inspired Computation and Swarm Intelligence
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Recent Advances in Electrical Engineering, Electronics and Energy
Internet of Things and Its Applications
Proceedings of the International e-Conference on Intelligent Systems and Signal Processing
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Real-Time Data Analytics for Large Scale Sensor Data
Recent Developments in Data Science and Intelligent Analysis of Information
Emergence of Pharmaceutical Industry Growth with Industrial IoT Approach
Decision Intelligence Solutions

ANTONY COOLEY

DAMT & NCON 2020 CRC Press
This book provides insights into the Third International Conference on Intelligent Systems and Signal Processing (eISSP 2020) held By Electronics & Communication Engineering Department of G H Patel College of Engineering & Technology, Gujarat, India, during 28–30 December 2020. The book comprises contributions by the research scholars and academicians covering the topics in signal processing and communication engineering, applied electronics and emerging technologies, Internet of Things (IoT), robotics, machine learning, deep learning and artificial intelligence. The main emphasis of the book is on dissemination of information, experience and research results on the current topics of interest through in-depth discussions and contribution of researchers from all over world. The book is useful for research community, academicians, industrialists and postgraduate students across the globe.
Trends and Applications in Information Systems and Technologies Springer Nature
Nature-inspired computation and swarm intelligence have become popular and effective tools for solving problems in optimization, computational intelligence, soft computing and data science. Recently, the literature in the field has expanded rapidly, with new algorithms and applications emerging. Nature-Inspired Computation and Swarm Intelligence: Algorithms, Theory and Applications is a timely reference giving a comprehensive review of relevant state-of-the-art developments in algorithms, theory and applications of nature-inspired algorithms and swarm intelligence. It reviews and documents the new developments, focusing on nature-inspired algorithms and their theoretical analysis, as well as providing a guide to their implementation. The book includes case studies of diverse real-world applications, balancing explanation of the theory with practical implementation. Nature-Inspired Computation and Swarm Intelligence: Algorithms, Theory and Applications is suitable for researchers and graduate students in computer science, engineering, data science, and management science, who want a comprehensive review of algorithms, theory and implementation within the fields of nature inspired

computation and swarm intelligence.
Programming with MicroPython BoD – Books on Demand
It’s an exciting time to get involved with MicroPython, the re-implementation of Python 3 for microcontrollers and embedded systems. This practical guide delivers the knowledge you need to roll up your sleeves and create exceptional embedded projects with this lean and efficient programming language. If you’re familiar with Python as a programmer, educator, or maker, you’re ready to learn—and have fun along the way. Author Nicholas Tollervey takes you on a journey from first steps to advanced projects. You’ll explore the types of devices that run MicroPython, and examine how the language uses and interacts with hardware to process input, connect to the outside world, communicate wirelessly, make sounds and music, and drive robotics projects. Work with MicroPython on four typical devices: PyBoard, the micro:bit, Adafruit’s Circuit Playground Express, and ESP8266/ESP32 boards Explore a framework that helps you generate, evaluate, and evolve embedded projects that solve real problems Dive into practical MicroPython examples: visual feedback, input and sensing, GPIO, networking, sound and music, and robotics Learn how idiomatic MicroPython helps you express a lot with the minimum of resources Take the next step by getting involved with the Python community
Recent Trends in Engineering and Technology (NCRTET-2017) MDPI
Real-Time Data Analytics for Large-Scale Sensor Data covers the theory and applications of hardware platforms and architectures, the development of software methods, techniques and tools, applications, governance and adoption strategies for the use of massive sensor data in real-time data analytics. It presents the leading-edge research in the field and identifies future challenges in this fledging research area. The book captures the essence of real-time IoT based solutions that require a multidisciplinary approach for catering to on-the-fly processing, including methods for high performance stream processing, adaptively streaming adjustment, uncertainty handling, latency handling, and more. - Examines IoT applications, the design of real-time intelligent systems, and how to manage the rapid growth of the large volume of sensor data - Discusses intelligent management systems for applications such as healthcare, robotics and environment modeling - Provides a focused approach towards the design and implementation of real-time intelligent systems for the management of sensor data in large-scale environments
Internet of Things and Its Applications Springer Nature
This book gathers the proceedings of the IV International Conference on Biomedical and Health Informatics (ICBHI 2019), held on 17-20 April, 2019, in Taipei, Taiwan. Contributions span a range of topics, including medical imaging, biosignal processing, biodata management and analytics, public and personalized health systems, mobile health applications and many more. The IV conference edition gave a special emphasis to cybersecurity

issues and cutting-edge medical devices, as it is reflected in this book, which provides academics and professionals with extensive knowledge on and a timely snapshot of cutting-edge research and developments in the field of biomedical and health informatics.

7th International Conference on the Development of Biomedical Engineering in Vietnam (BME7) CRC Press

This book features high-quality research papers presented at the First Doctoral Symposium on Human Centered Computing (HUMAN 2023), jointly organized by Computer Society of India, Kolkata Chapter and Techno India University, West Bengal, on February 25, 2023. This book discusses the topics of modern human centered computing and its applications. The book showcases the fusion of human sciences (social and cognitive) with computer science (human–computer interaction, signal processing, machine learning, and ubiquitous computing).

Nature-Inspired Computation and Swarm Intelligence Academic Press

The evolution of technological advances in infrared sensor technology, image processing, "smart" algorithms, knowledge-based databases, and their overall system integration has resulted in new methods of research and use in medical infrared imaging. The development of infrared cameras with focal plane arrays no longer requiring cooling, added a new dimension to this modality. Medical Infrared Imaging: Principles and Practices covers new ideas, concepts, and technologies along with historical background and clinical applications. The book begins by exploring worldwide advances in the medical applications of thermal imaging systems. It covers technology and hardware including detectors, detector materials, un-cooled focal plane arrays, high performance systems, camera characterization, electronics for on-chip image processing, optics, and cost-reduction designs. It then discusses the physiological basis of the thermal signature and its interpretation in a medical setting. The book also covers novel and emerging techniques, the complexities and importance of protocols for effective and reproducible results, storage and retrieval of thermal images, and ethical obligations. Of interest to both the medical and biomedical engineering communities, the book explores many opportunities for developing and conducting multidisciplinary research in many areas of medical infrared imaging. These range from clinical quantification to intelligent image processing for enhancement of the interpretation of images, and for further development of user-friendly high-resolution thermal cameras. These would enable the wide use of infrared imaging as a viable, noninvasive, low-cost, first-line detection modality.

Proceedings of the Third International Conference on Computational Intelligence and Informatics John Wiley & Sons

La 4e de couverture indique : "Whether your picosatellite is watching the Earth or gazing at the stars, you need to know what you're sensing. This do-it-yourself guide

explains what you can measure---and the constraints on those measurements---when you're orbiting the Earth. Learn exactly what physical quantities you can measure, and how to plan your sensor loadout. The perfect follow-up to DIY Satellite Platforms (our primer for designing and building a picosatellite), this book takes you beyond just flying a camera in space and shows you what data you can gather and play with using your own personal satellite. Learn about all the sensors you can select for your mission; get acquainted with key electronic communications protocols; I2C, TTL, SPI, analog, and digital; find out how much more your instruments can "see" when they're above the atmosphere; Understand how to calibrate sensors and how to pick the signal out of the noise; determine the optimal data acquisition rate for your available bandwith; [and] look at off-the-shelf sensor hardware and CPU choices (such as Arduino)"

Periodic Pattern Mining College of Computing, Informatics and Mathematics

This volume presents the proceedings of the 7th International Conference on the Development of Biomedical Engineering in Vietnam which was held from June 27-29, 2018 in Ho Chi Minh City. The volume reflects the progress of Biomedical Engineering and discusses problems and solutions. It aims to identify new challenges, and shaping future directions for research in biomedical engineering fields including medical instrumentation, bioinformatics, biomechanics, medical imaging, drug delivery therapy, regenerative medicine and entrepreneurship in medical devices.

Compartmental Distribution Of Radiotracers Springer Nature

This book offers a holistic approach to the Internet of Things (IoT) model, covering both the technologies and their applications, focusing on uniquely identifiable objects and their virtual representations in an Internet-like structure. The authors add to the rapid growth in research on IoT communications and networks, confirming the scalability and broad reach of the core concepts. The book is filled with examples of innovative applications and real-world case studies. The authors also address the business, social, and legal aspects of the Internet of Things and explore the critical topics of security and privacy and their challenges for both individuals and organizations. The contributions are from international experts in academia, industry, and research.

DIY Instruments for Amateur Space Springer Nature

The availability of isotopic varieties of the chemical elements has had a strong impact on many branches of science. For some procedures isotopic tracers make possible methods that are simply easier or more accurate or more convenient than other methods. More importantly, however, there are some processes, particularly those involving steady-state conditions, that before the advent of isotopic tracers were considered to be not accessible to investigation, but which can be studied with these tracers. In biological studies the radioactive tracers have been especially useful because external detection methods can be employed

in noninvasive or minimally invasive studies.

7th International Conference on the Development of Biomedical Engineering in Vietnam (BME7) MITP-Verlags GmbH & Co. KG

The author compiles everything a student or experienced developmental engineer needs to know about the supporting technologies associated with the rapidly evolving field of robotics.From the table of contents: Design Considerations * Dead Reckoning * Odometry Sensors * Doppler and Inertial Navigation * Typical Mobility Configurations * Tactile and

Arduino Springer

This book constitutes the proceedings of the XVIII International Conference on Data Science and Intelligent Analysis of Information (ICDSIAI'2018), held in Kiev, Ukraine on June 4-7, 2018. The conference series, which dates back to 2001 when it was known as the Workshop on Intelligent Analysis of Information, was renamed in 2008 to reflect the broadening of its scope and the composition of its organizers and participants. ICDSIAI'2018 brought together a large number of participants from numerous countries in Europe, Asia and the USA. The papers presented addressed novel theoretical developments in methods, algorithms and implementations for the broadly perceived areas of big data mining and intelligent analysis of data and information, representation and processing of uncertainty and fuzziness, including contributions on a range of applications in the fields of decision-making and decision support, economics, education, ecology, law, and various areas of technology. The book is dedicated to the memory of the conference founder, the late Professor Tetiana Taran, an outstanding scientist in the field of artificial intelligence whose research record, vision and personality have greatly contributed to the development of Ukrainian artificial intelligence and computer science.

The Psychology of Touch "O'Reilly Media, Inc."

This book outlines the background and overall vision for the Internet of Things (IoT) and Machine-to-Machine (M2M) communications and services, including major standards. Key technologies are described, and include everything from physical instrumentation of devices to the cloud infrastructures used to collect data. Also included is how to derive information and knowledge, and how to integrate it into enterprise processes, as well as system architectures and regulatory requirements. Real-world service use case studies provide the hands-on knowledge needed to successfully develop and implement M2M and IoT technologies sustainably and profitably. Finally, the future vision for M2M technologies is described, including prospective changes in relevant standards. This book is written by experts in the technology and business aspects of Machine-to-Machine and Internet of Things, and who have experience in implementing solutions. Standards included: ETSI M2M, IEEE 802.15.4, 3GPP (GPRS, 3G, 4G), Bluetooth Low Energy/Smart, IETF 6LoWPAN, IETF CoAP, IETF RPL, Power Line Communication, Open Geospatial Consortium (OGC) Sensor Web Enablement (SWE), ZigBee, 802.11, Broadband Forum TR-069,

Open Mobile Alliance (OMA) Device Management (DM), ISA100.11a, WirelessHART, M-BUS, Wireless M-BUS, KNX, RFID, Object Management Group (OMG) Business Process Modelling Notation (BPMN) Key technologies for M2M and IoT covered: Embedded systems hardware and software, devices and gateways, capillary and M2M area networks, local and wide area networking, M2M Service Enablement, IoT data management and data warehousing, data analytics and big data, complex event processing and stream analytics, knowledge discovery and management, business process and enterprise integration, Software as a Service and cloud computing Combines both technical explanations together with design features of M2M/IoT and use cases. Together, these descriptions will assist you to develop solutions that will work in the real world Detailed description of the network architectures and technologies that form the basis of M2M and IoT Clear guidelines and examples of M2M and IoT use cases from real-world implementations such as Smart Grid, Smart Buildings, Smart Cities, Participatory Sensing, and Industrial Automation A description of the vision for M2M and its evolution towards IoT

The Fusion of Internet of Things, Artificial Intelligence, and Cloud Computing in Health Care Academic Press

This book constitutes the proceedings of the XV Multidisciplinary International Congress on Science and Technology (CIT 2020), held in Quito, Ecuador, on 26–30 October 2020, proudly organized by Universidad de las Fuerzas Armadas ESPE in collaboration with GDEON. CIT is an international event with a multidisciplinary approach that promotes the dissemination of advances in Science and Technology research through the presentation of keynote conferences. In CIT, theoretical, technical, or application works that are research products are presented to discuss and debate ideas, experiences, and challenges. Presenting high-quality, peer-reviewed papers, the book discusses the following topics: • Electrical and Electronic• Energy and Mechanics

Anatomy of the Heart by Multislice Computed Tomography Academic Press

Infrared Thermography (IRT) is commonly as a NDE tool to identify damages and provide remedial action. The fields of application are vast, such as, materials science, life sciences and applied engineering. This book offers a collection of ten chapters with three major sections - relating to application of infrared thermography to study problems in materials science, agriculture, veterinary and sports fields as well as in engineering applications. Both mathematical modeling and experimental aspects of IRT are evenly discussed in this book. It is our sincere hope that the book meets the requirements of researchers in the domain and inspires more researchers to study IRT.

Advanced Computing "O'Reilly Media, Inc."

This book features high-quality papers presented at the International Conference on Computational Intelligence and Informatics (ICCII 2018), which was held on 28–29 December 2018 at the Department of Computer Science and Engineering, JNTUH College of

Engineering, Hyderabad, India. The papers focus on topics such as data mining, wireless sensor networks, parallel computing, image processing, network security, MANETS, natural language processing and Internet of things.

From Machine-to-Machine to the Internet of Things
Allied Publishers
This book reviews the convergence technologies like cloud computing, artificial intelligence (AI) and Internet of Things (IoT) in healthcare and how they can help all stakeholders in the healthcare sector. The book is a proficient guide on the relationship between AI, IoT and healthcare and gives examples into how IoT is changing all aspects of the healthcare industry. Topics include remote patient monitoring, the telemedicine ecosystem, pattern imaging analytics using AI, disease identification and diagnosis using AI, robotic surgery, prediction of epidemic outbreaks, and more. The contributors include applications and case studies across all areas of computational intelligence in healthcare data. The authors also include workflow in IoT-enabled healthcare technologies and explore privacy and security issues in healthcare-based IoT.

Proceedings of the 8th International Conference on Computational Science and Technology
Academic Press
This book contains the proceedings of the ROBOT 2013: FIRST IBERIAN ROBOTICS CONFERENCE and it can be said that included both state of the art and more practical presentations dealing with implementation problems, support technologies and future applications. A growing interest in Assistive Robotics, Agricultural Robotics, Field Robotics, Grasping and Dexterous Manipulation, Humanoid Robots, Intelligent Systems and Robotics, Marine Robotics, has been demonstrated by the very relevant number of contributions. Moreover, ROBOT2013 incorporates a special session on Legal and Ethical Aspects in Robotics that is becoming a topic of key relevance. This Conference was held in Madrid (28-29 November 2013), organized by the Sociedad Española para la Investigación y Desarrollo en Robótica (SEIDROB) and by the Centre for Automation and Robotics - CAR (Universidad Politécnica de Madrid (UPM) and Consejo Superior de Investigaciones Científicas (CSIC)), along with the co-operation of Grupo Temático de Robótica CEA-GTRob, "Sociedade Portuguesa de Robotica" (SPR), "Asociación Española de Promoción de la Investigación en Agentes Físicos" (RedAF), and partially supported by "Comunidad de Madrid under RoboCity2030 Programme".

Infrared Thermography
Springer Nature
This volume presents the proceedings of the 7th International Conference on the Development of Biomedical Engineering in Vietnam which was held from June 27-29, 2018 in Ho Chi Minh City. The volume reflects the progress of Biomedical Engineering and discusses problems and solutions. It aims to identify new challenges, and shaping future directions for research in biomedical engineering fields including medical instrumentation, bioinformatics, biomechanics, medical imaging, drug delivery therapy, regenerative medicine and entrepreneurship in

medical devices.

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