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Proceedings of the International Conference on Advance Transportation, Engineering, and Applied Science (ICATEAS 2022) arduino instructor
Top 70 Arduino Project
Arduino The Best Two Hundred Projects arduino instructor
This proceedings book gathers selected papers presented at the 4th Conference on Computing Systems and Applications (CSA2020) held on December 14, 2020, at the Ecole Militaire Polytechnique, Algiers, Algeria. The proceedings provide a collection of new ideas, original research findings, and experimental results in the field of computer science covering: artificial intelligence, data science, computer networks and security, information systems, software engineering, and computer graphics. The proceedings are a valuable reference work for students, researchers, academics, and industry practitioners interested in the latest scientific and technological advances across the conference topics. Benefits: • Explores the latest research trends and their applications in a broad range of computer science disciplines • Presents a collection of contributions in emerging topics in computer science and information technology • Covers artificial intelligence, data science, computer networks and security, information systems, software engineering, and computer graphics

Machine Intelligence and Data Analytics for Sustainable Future Smart Cities arduino instructor
This book is all about getting started with Internet of Things using Nodemcu, it's a development kit made out of ESP8266, which is very cheap Wi-Fi microcontroller, and in this book you can find How to program the Nodemcu from Arduino IDE You will learn in-depth details about ESP8266 Chip, Modules, Features & Benefits. This book will help you understand the basic concepts of IOT, its benefits, advantages and applications in various industries starting from Home Automation to Healthcare Monitoring to Industrial Transformation. what are you still waiting for? Go ahead and enjoy the IOT ride with Nodemcu ...This book will teach you programming NodeMCU using Arduino IDE. If you want to learn about the world of IOT and how it changes the world we live in, this is a resource book to get started with. TABLE OF

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ESP8266 NodeMCU Using Arduino IDE (Internet of Things) Springer

Often, no single field or expert has all the information necessary to solve complex problems, and this is no less true in the fields of electronics and communications systems. Transdisciplinary engineering solutions can address issues arising when a solution is not evident during the initial development stages in the multidisciplinary area. This book presents the proceedings of RDECS-2022, the 1st international conference on Recent Developments in Electronics and Communication Systems, held on 22 and 23 July 2022 at Aditya Engineering College, Surampalem, India. The primary goal of RDECS-2022 was to challenge existing ideas and encourage interaction between academia and industry to promote the sort of collaborative activities involving scientists, engineers, professionals, researchers, and students that play a major role in almost all fields of scientific growth. The conference also aimed to provide an arena for showcasing advancements and research endeavors being undertaken in all parts of the world. A large number of technical papers with rich content, describing ground-breaking research from participants from various institutes, were submitted for presentation at the conference. This book presents 108 of these papers, which cover a wide range of topics ranging from cloud computing to disease forecasting and from weather reporting to the detection of fake news. Offering a fascinating overview of recent research and developments in electronics and communications systems, the book will be of interest to all those working in the field.

Information Technology in Geo-Engineering Springer Nature

This book introduces methods of re-processing images to extract numerical information that can be used to quantify the observables in environmental modelling. Experiments or procedures that yield large images can be statistically or parametrically examined. Through the use of open source libraries, the book shows how ‘big data’ in the form of images or datasets can be comparatively analysed along same defined procedures or standards. This book helps to solve the challenges of discarding datasets that are relevant directly or indirectly to the research. The habit of screening datasets leads to the discard of over 90% of the original dataset or images generated in the experiments or procedure. If the images or datasets are generated under the same principles or conditions, then each measurement may be the narrative of unique events. The focus of this book is to enlighten researchers on how to analyse measurements with the aim of ensuring 100% utilization.

Recent Developments in Electronics and Communication Systems European Alliance for Innovation

Fourth International Conference on Information and Communication Technology for Competitive Strategies targets state-of-the-art as well as emerging topics pertaining to information and communication technologies (ICTs) and effective strategies for its implementation for engineering and intelligent applications.

Arduino Personal Weather Station Springer Nature

This two-volume set (CCIS 905 and CCIS 906) constitutes the refereed proceedings of the Second International Conference on Advances in Computing and Data Sciences, ICACDS 2018, held in Dehradun, India, in April 2018. The 110 full papers were carefully reviewed and selected from 598 submissions. The papers are centered around topics like advanced computing, data sciences, distributed systems organizing principles, development frameworks and environments, software verification and validation, computational complexity and cryptography, machine learning theory, database theory, probabilistic representations.

Artificial Intelligence in Industrial Applications arduino instructor

These proceedings address the latest developments in information communication and technologies for geo-engineering. The 3rd International Conference on Information Technology in Geo-Engineering (ICITG 2019), held in Guimarães, Portugal, follows the previous successful installments of this conference series in Durham (2014) and Shanghai (2010). The respective chapters cover the following: Use of information and communications technologies Big data and databases Data mining and data science Imaging technologies Building information modelling applied to geo-structures Artificial intelligence Smart geomaterials and intelligent construction Sensors and monitoring Asset management Case studies on design, construction and maintenance Given its broad range of coverage, the book will benefit students, educators, researchers and professional practitioners alike, encouraging these readers to help take the geo-engineering community into the digital age

Arduino Fifty Best Projects arduino instructor

Arduino Fourty Best Projects

Information and Communication Technology for Sustainable Development Springer

Get familiar with all the concepts related to Raspberry Pi and MQTT, build innovative IoT projects, and discover how to scale these projects to the next level Key FeaturesLearn some of the most popular tools used in IoT – Raspberry Pi, MQTT, ESP8266 and moreBuild exciting projects such as an IoT weather station and a smart switch boardDiscover the advantages of taking your MQTT broker globalBook Description The future of IoT has the potential to be limitless. Wouldn't it be great if you could add it to your own technological stacks? But where to start? With the basics, of course. In this book, you will start by learning about the most popular hardware and communication protocol, Raspberry Pi and MQTT. You will see how to use them together by setting up your own MQTT server on Raspberry Pi and understand how it works. This book explores MQTT in detail, including the clients and devices that you can connect to your server. You will discover two very popular IoT development boards among project developers: the ESP8266 and ESP32 development boards. Then, you will learn how to build interactive dashboards on your Pi and monitor your client devices. The book also shows you how to build a dashboard using another popular software – Node-RED. You will be able to put your skills to the test by creating two full-scale projects. That's not all: you will also learn how to host your own MQTT server on a virtual cloud service. Finally, you will be guided on how to move forward from here, what technologies to learn, and some project recommendations to polish or test your knowledge. By the end of this book, you will be able to build meaningful projects using Raspberry Pi and MQTT and create dashboards for your projects on Node-RED. What you will learnConfigure and use a Raspberry Pi for IoT projectsImplement the MQTT communication protocol for projectsUnderstand how to set up the NodeMCU and ESP32 boards as MQTT clientsControl a NodeMCU board through a Node-RED dashboard hosted on Raspberry PiGet LAMP server, Home Assistant, and MariaDB on the Raspberry PiSet up an online MQTT broker on a cloud service or enterprise service provider platformBuild full-scale, end-to-end prototype projectsWho this book is for This book is for students

who are interested in IoT and want to build projects using the available developer hardware. Educators who want to introduce a course on IoT into their curriculum, technology enthusiasts, and IoT developers who are just getting started will also benefit from this book. No prior knowledge about the two main topics that the book covers is required - Raspberry Pi and MQTT. A basic understanding of what IoT is will also be useful but not mandatory.

Advances in Computing and Data Sciences CRC Press
OBJECT DETECTION BY STEREO VISION IMAGES Since both theoretical and practical aspects of the developments in this field of research are explored, including recent state-of-the-art technologies and research opportunities in the area of object detection, this book will act as a good reference for practitioners, students, and researchers. Current state-of-the-art technologies have opened up new opportunities in research in the areas of object detection and recognition of digital images and videos, robotics, neural networks, machine learning, stereo vision matching algorithms, soft computing, customer prediction, social media analysis, recommendation systems, and stereo vision. This book has been designed to provide directions for those interested in researching and developing intelligent applications to detect an object and estimate depth. In addition to focusing on the performance of the system using high-performance computing techniques, a technical overview of certain tools, languages, libraries, frameworks, and APIs for developing applications is also given. More specifically, detection using stereo vision images/video from its developmental stage up till today, its possible applications, and general research problems relating to it are covered. Also presented are techniques and algorithms that satisfy the peculiar needs of stereo vision images along with emerging research opportunities through analysis of modern techniques being applied to intelligent systems. Audience Researchers in information technology looking at robotics, deep learning, machine learning, big data analytics, neural networks, pattern & data mining, and image and object recognition. Industrial sectors include automotive electronics, security and surveillance systems, and online retailers.

Top 75 Arduino Projects Packt Publishing Ltd
The book proposes new technologies and discusses future solutions for ICT design infrastructures, and includes high-quality submissions presented at the Third International Conference on ICT for Sustainable Development (ICT4SD 2018), held in Goa, India on 30–31 August 2018. The conference stimulated cutting-edge research discussions among pioneering researchers, scientists, industrial engineers, and students from all around the world. Bringing together experts from different countries, the book focuses on innovative issues at an international level.

Arduino The Best Seventy Projects arduino instructor
Arduino The Best One Hundred Sixty Projects
Environmental Modeling Using Satellite Imaging and Dataset Re-processing Packt Publishing Ltd
Arduino The Best One Hundred Eighty Projects
Arduino The Best One Hundred Eighty Projects arduino instructor
IMDC-SDSP conference offers an exceptional platform and opportunity for practitioners, industry experts, technocrats, academics, information scientists, innovators, postgraduate students, and research scholars to share their experiences for the advancement of knowledge and obtain critical feedback on their work. The timing of this conference coincides with the rise of Big Data, Artificial Intelligence powered applications, Cognitive Communications, Green Energy, Adaptive Control and Mobile Robotics towards maintaining the Sustainable Development and Smart Planning and management of the future technologies. It is aimed at the knowledge generated from the integration of the different data sources related to a number of active real-time applications in supporting the smart planning and enhance and sustain a healthy environment. The conference also covers the rise of the digital health, well-being, home care, and patient-centred era for the benefit of patients and healthcare providers; in addition to how supporting the development of a platform of smart Dynamic Health Systems and self-management.

Getting Started with ESPHome Novatec Editora
Arduino The Best One Hundred Fifty Projects
Top 60 Arduino Project arduino instructor
The widespread availability of technologies has increased exponentially in recent years. This ubiquity has created more connectivity and seamless integration among technology devices. Emerging Trends and Applications of the Internet of Things is an essential reference publication featuring the latest scholarly research on the surge of connectivity between computing devices in modern society, as well as the benefits and challenges of this. Featuring extensive coverage on a broad range of topics such as cloud computing, spatial cognition, and ultrasonic sensing, this book is ideally designed for researchers, professionals, and academicians seeking current research on upcoming advances in the Internet of Things (IoT).

Internet of Things with 8051 and ESP8266 IOS Press
This book highlights the analytics and optimization issues in industry, to propose new approaches, and to present applications of innovative approaches in real facilities. In the past few decades there has been an exponential rise in the application of artificial intelligence for solving complex and intricate problems arising in industrial domain. The versatility of these techniques have made them a favorite among scientists and researchers working in diverse areas. The book is edited to serve a broad readership, including computer scientists, medical professionals, and mathematicians interested in studying computational intelligence and their applications. It will also be helpful for researchers, graduate and undergraduate students with an interest in the fields of Artificial Intelligence and Industrial problems. This book will be a useful resource for researchers, academicians as well as professionals interested in the highly interdisciplinary field of Artificial Intelligence.

Top 70 Arduino Project arduino instructor
Projetos de Automação Residencial com ESP8266 O ESP8266 é um poderoso chip Wi-Fi de baixo custo que está se tornando uma opção popular para construir dispositivos interconectados automatizados para uma vida melhor. Com este livro você aprenderá a criar e programar projetos de automação residencial usando o chip Wi-Fi ESP8266. Saberá como construir um termostato para medir e ajustar a temperatura, e como construir um sistema de segurança usando o ESP8266. Além disso, aprenderá como projetar do zero um sistema completo de automação residencial, que permitirá enviar os valores de seus módulos ESP8266 para sua nuvem privada para monitorar seus aplicativos. Ao final do livro, você entenderá como controlar e monitorar completamente sua casa a partir da nuvem e de um aplicativo móvel. Também estará familiarizado com os recursos do ESP8266 e terá projetado com sucesso um sistema de automação residencial completo e pronto para comercialização. Você aprenderá a: • Instalar e configurar um servidor MQTT • Usar o recurso de conectividade Wi-Fi para controlar aparelhos remotamente • Projetar um termostato usando o ESP8266 para medir e ajustar a temperatura de sua casa • Controlar e monitorar sua casa a partir da nuvem usando módulos ESP8266 • Transmitir dados em tempo real do ESP8266 para um servidor por meio de WebSockets • Criar um aplicativo móvel Android para seu projeto

Advances in Computing Systems and Applications Springer

Nature
Arduino The Best One Hundred Forty Projects