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Making Things Smart: Easy Embedded JavaScript Programming ...
IoT in healthcare is playing a smart role, and IoT based hearing aid application is

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already familiar. Almost 466 million people have progressive hearing loss problems. Connecting all internet enable devices serves a great purpose of making our life easy. Below some of the characteristics of IoT based hearing aid applications, we are representing.

IoT in Healthcare: 20 Examples That'll Make You Feel Better

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Resize Images Without Losing Quality with Photoshop Smart ...

Using Espruino, the Javascript for hardware, Making Things Smart teaches the fundamentals of the powerful ARM microcontroller by walking beginners and experienced users alike through easily assembled projects comprised of inexpensive, hardware-store parts. You'll learn: What a microcontroller is and how to program it

Make: Making Things Smart - PDF - Maker Shed

Being smart is more than that. Yes, your general IQ plays a part, but it's also about how emotionally and socially intelligent you are, your common sense, your ability to actually utilize your talents, and more.. Smart people make things that the rest of us find really quite challenging look easy.

12 Hard Things Smart People Make Look Easy

When you're typing emoticons don't type spaces between characters. Some of the examples below call for an "underscore" - it is made by holding down the shift key and the hyphen key at the same time. Some call for a "bullet.". On a PC, make a bullet by holding down Alt+7; on a Mac, make a bullet by holding down option+8.

30 Emoticons: How to Make Faces, Things and Animals with ...

"The Internet of Things (IoT) is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability ...

IoT Explained — How Does an IoT System Actually Work? | by ...

We are an electronics research & development company headquarter in london. We work on some of the newest technologies around the world connecting Hardware and softwares. We provide simple embedded solution to complex problems at

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industries, workshops. We are continuously working for develop high quality and reliable smart devices. Making life easier.

Welcome to Uniolabs Private Limited Electronics Startup ...

Successful people make sure they are questions that will elicit information for a more productive, creative and positive mindset moving forward. 7. Understand the Best Waste of Energy Is Complaining. Successful people know that choosing to see the negative side of things will only create a useless and unproductive state. 8. Don't Play the ...

Making Things Smart teaches the fundamentals of the powerful ARM microcontroller by walking beginners and experienced users alike through easily assembled projects comprised of inexpensive, hardware-store parts. Current ARM programming books take a bland, textbook approach focused on complex, beginner-unfriendly languages like C or ARM Assembler. Making Things Smart uses Espruino (JavaScript for Hardware), flattening the learning curve.

Interested in developing embedded systems? Since they don't tolerate inefficiency, these systems require a disciplined approach to programming. This easy-to-read guide helps you cultivate a host of good development practices, based on classic software design patterns and new patterns unique to embedded programming. Learn how to build system architecture for processors, not operating systems, and discover specific techniques for dealing with hardware difficulties and manufacturing requirements. Written by an expert who's created embedded systems ranging from urban surveillance and DNA scanners to children's toys, this book is ideal for intermediate and experienced programmers, no matter what platform you use. Optimize your system to reduce cost and increase performance Develop an architecture that makes your software robust in resource-constrained environments Explore sensors, motors, and other I/O devices Do more with less: reduce RAM consumption, code space, processor cycles, and power consumption Learn how to update embedded code directly in the processor Discover how to implement complex mathematics on small processors Understand what interviewers look for when you apply for an embedded systems job "Making Embedded Systems is the book for a C programmer who wants to enter the fun (and lucrative) world of embedded systems. It's very well written—entertaining, even—and filled with clear illustrations." —Jack Ganssle, author and embedded system expert.

Many of the initial developments towards the Internet of Things have focused on the combination of Auto-ID and networked infrastructures in business-to-business logistics and product lifecycle applications. However, the Internet of Things is more than a business tool for managing business processes more efficiently and more effectively – it will also enable a more convenient way of life. Since the term Internet of Things first came to attention when the Auto-ID Center launched their initial vision for the EPC network for automatically identifying and tracing the flow of goods within supply-chains, increasing numbers of researchers and practitioners have further developed this vision. The authors in this book provide a research perspective on current and future developments in the Internet of Things. The

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different chapters cover a broad range of topics from system design aspects and core architectural approaches to end-user participation, business perspectives and applications.

Over the past two decades, we have witnessed unprecedented innovations in the development of miniaturized electromechanical devices and low-power wireless communication making practical the embedding of networked computational devices into a rapidly widening range of material entities. This trend has enabled the coupling of physical objects and digital information into cyber-physical systems and it is widely expected to revolutionize the way resource computational consumption and provision will occur. Specifically, one of the core ingredients of this vision, the so-called Internet of Things (IoT), demands the provision of networked services to support interaction between conventional IT systems with both physical and artificial objects. In this way, IoT is seen as a combination of several emerging technologies, which enables the transformation of everyday objects into smart objects. It is also perceived as a paradigm that connects real world with digital world. The focus of this book is exactly on the novel collective and computational intelligence technologies that will be required to achieve this goal. While, one of the aims of this book is to discuss the progress made, it also prompts future directions on the utilization of inter-operable and cooperative next generation computational technologies, which supports the IoT approach, that being an advanced functioning towards an integrated collective intelligence approach for the benefit of various organizational settings.

A comprehensive and accessible introduction to the development of embedded systems and Internet of Things devices using ARM mbed Designing Embedded Systems and the Internet of Things (IoT) with the ARM mbed offers an accessible guide to the development of ARM mbed and includes a range of topics on the subject from the basic to the advanced. ARM mbed is a platform and operating system based on 32-bit ARM Cortex-M microcontrollers. This important resource puts the focus on ARM mbed NXP LPC1768 and FRDM-K64F evaluation boards. NXP LPC1768 has powerful features such as a fast microcontroller, various digital and analog I/Os, various serial communication interfaces and a very easy to use Web based compiler. It is one of the most popular kits that are used to study and create projects. FRDM-K64F is relatively new and largely compatible with NXP LPC1768 but with even more powerful features. This approachable text is an ideal guide that is divided into four sections; Getting Started with the ARM mbed, Covering the Basics, Advanced Topics and Case Studies. This getting started guide: Offers a clear introduction to the topic Contains a wealth of original and illustrative case studies Includes a practical guide to the development of projects with the ARM mbed platform Presents timely coverage of how to develop IoT applications Designing Embedded Systems and the Internet of Things (IoT) with the ARM mbed offers students and R&D engineers a resource for understanding the ARM mbed NXP LPC1768 evaluation board.

Dedicated to the vision of Prof. Alejandro Buchmann, this collection of work illuminates various facets of data management and reflects the development of the field from its early association with database systems through to today's wide-ranging applications.

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Intelligent system is an advanced machine that can perceive, learn, and solve the problems with a great accuracy. Technologies with intelligent system are currently available in the market and used in real-world applications, i.e., self-driving cars, Siri, Alexa, Facebook, and so on. To exceed human cognitive capabilities, the important keys rely on the development of sensors and algorithms. Therefore, the insight into artificial intelligence (AI) methods becomes a fundamental building block for design and construction of intelligent system with particular applications. This book aims to describe the AI systems ranging from the basic knowledge, i.e., algorithm and mathematical models of AI techniques, fundamentals of machine learning, genetic algorithm, and fuzzy logic, to the current state-of-the-art applications, such as smart road and biomedical applications.

Ten years after the first FabLab (a so called fabrication laboratory) was opened at MIT, more than 120 FabLabs exist all over the world. Today, it is time to look back at a decade of FabLab activities. This book shows how small production devices, such as laser cutters and 3D printers, and dedicated educationists, researchers and FabLab practitioners transform the fields of learning, work, production, design, maker culture, law and science on a global scale. In this composition experts from various countries, such as Germany, India or the USA, and distinguished academic institutions, such as MIT or Stanford University, discuss theoretical questions and introduce practical approaches concerning FabLab activities.

A detailed, practical review of state-of-the-art implementations of memory in IoT hardware As the Internet of Things (IoT) technology continues to evolve and become increasingly common across an array of specialized and consumer product applications, the demand on engineers to design new generations of flexible, low-cost, low power embedded memories into IoT hardware becomes ever greater. This book helps them meet that demand. Coauthored by a leading international expert and multiple patent holder, this book gets engineers up to speed on state-of-the-art implementations of memory in IoT hardware. Memories for the Intelligent Internet of Things covers an array of common and cutting-edge IoT embedded memory implementations. Ultra-low-power memories for IoT devices-including plastic and polymer circuitry for specialized applications, such as medical electronics-are described. The authors explore microcontrollers with embedded memory used for smart control of a multitude of Internet devices. They also consider neuromorphic memories made in Ferroelectric RAM (FeRAM), Resistance RAM (ReRAM), and Magnetic RAM (MRAM) technologies to implement artificial intelligence (AI) for the collection, processing, and presentation of large quantities of data generated by IoT hardware. Throughout the focus is on memory technologies which are complementary metal oxide semiconductor (CMOS) compatible, including embedded floating gate and charge trapping EEPROM/Flash along with FeRAMs, FeFETs, MRAMs and ReRAMs. Provides a timely, highly practical look at state-of-the-art IoT memory implementations for an array of product applications Synthesizes basic science with original analysis of memory technologies for Internet of Things (IoT) based on the authors' extensive experience in the field Focuses on practical and timely applications throughout Features numerous illustrations, tables, application requirements, and photographs Considers memory related security issues in IoT devices Memories for the Intelligent Internet of Things is a valuable working resource for electrical engineers and engineering managers working in the electronics system and semiconductor

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Industries. It is also an indispensable reference/text for graduate and advanced undergraduate students interested in the latest developments in integrated circuit devices and systems.

Cities are the next frontier for artificial intelligence to permeate. As smart urban environments become possible, probable, and even preferred, artificial intelligence offers the chance for even further advancement through infrastructure and industry boosting. Opportunity overflows, but without thorough research to guide a complicated development and implementation process, urban environments can become disorganized and outright dangerous for citizens. AI-Based Services for Smart Cities and Urban Infrastructure is a collection of innovative research that explores artificial intelligence (AI) applications in urban planning. In addition, the book looks at how the internet of things and AI can work together to enable a real smart city and discusses state-of-the-art techniques in urban infrastructure design, construction, operation, maintenance, and management. While highlighting a broad range of topics including construction management, public transportation, and smart agriculture, this book is ideally designed for engineers, entrepreneurs, urban planners, architects, policymakers, researchers, academicians, and students.

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