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InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects. Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database. Providing a comprehensive overview of the state-of-the-art in Collaborative Process Automation Systems (CPAS), this book discusses topics such as engineering, security, enterprise connectivity, advanced process control, plant asset management, and operator efficiency. Collaborating with other industry experts, the author covers the system architecture and infrastructure required for a CPAS, as well as important standards like OPC and the ISA-95 series of standards. This in-depth reference focuses on the differences between a CPAS and traditional automation systems. Implications on modern automation systems are outlined in theory and practice. This book is ideal for industrial engineers, as well as graduate students in control and automation. In this practical reference, popular author Lewin Edwards shows how to develop robust, dependable real-time systems for robotics and other control

applications, using open-source tools. It demonstrates efficient and low-cost embedded hardware and software design techniques, based on Linux as the development platform and operating system and the Atmel AVR as the primary microcontroller. The book provides comprehensive examples of sensor, actuator and control applications and circuits, along with source code for a number of projects. It walks the reader through the process of setting up the Linux-based controller, from creating a custom kernel to customizing the BIOS, to implementing graphical control interfaces. Including detailed design information on:

- ESBUS PC-host interface
- Host-module communications protocol
- A speed-controlled DC motor with tach feedback and thermal cut-off
- A stepper motor controller
- A two-axis attitude sensor using a MEMS accelerometer
- Infrared remote control in Linux using LIRC
- Machine vision using Video4Linux

The first-ever book on using open source technology for robotics design! Covers hot topics such as GPS navigation, 3-D sensing, and machine vision, all using a Linux platform! This book presents methods for advancing green IoT sensor networks and IoT devices. Three main methods presented are: a standalone system to support IoT devices that is informed by the amount of energy the solar array system can produce; a model of securing a building's main power supply against unauthorized use; and security of the IoT devices and their networks. For each, the authors outline the methods, presents security and privacy issues, and their solutions. The work suggests a layered approach to expose security issues and challenges at each layer of the IoT architecture and proposes techniques used to mitigate these challenges. Finally, perspectives are drawn and discussed for future directions in securing IoT sensor networks, covering evolving areas such as artificial intelligence, blockchain technology, sensor Internet of People, context-aware sensing, cloud infrastructure, security and privacy, and the Internet of Everything.

Statistical Data Mining Using SAS Applications, Second Edition describes statistical data mining concepts and demonstrates the features of user-friendly data mining SAS tools. Integrating the statistical and graphical analysis tools available in

SAS systems, the book provides complete statistical data mining solutions without writing SAS program co Sir John Eccles, a distinguished scientist and Nobel Prize winner who has devoted his scientific life to the study of the mammalian brain, tells the story of how we came to be, not only as animals at the end of the hominid evolutionary line, but also as human persons possessed of reflective consciousness. "This book showcases the work many devoted wireless sensor network researchers all over world, and exhibits the up-to-date developments of WSNs from various perspectives"--Provided by publisher. Renowned engine builder and technical writer David Vizard turns his attention to extracting serious horsepower from small-block Chevy engines while doing it on a budget. Included are details of the desirable factory part numbers, easy do-it-yourself cylinder head modifications, inexpensive but effective aftermarket parts, the best blocks, rotating assembly (cranks, rods, and pistons), camshaft selection, lubrication, induction, ignition, exhaust systems, and more. SAS Programming for R Users, based on the free SAS Education course of the same name, is designed for experienced R users who want to transfer their programming skills to SAS. Emphasis is on programming and not statistical theory or interpretation. You will learn how to write programs in SAS that replicate familiar functions and capabilities in R. This book covers a wide range of topics including the basics of the SAS programming language, how to import data, how to create new variables, random number generation, linear modeling, Interactive Matrix Language (IML), and many other SAS procedures. This book also explains how to write R code directly in the SAS code editor for seamless integration between the two tools. Exercises are provided at the end of each chapter so that you can test your knowledge and practice your programming skills. Instrumentation and automatic control systems. This book constitutes thoroughly refereed and revised selected papers from the 10th Iberoamerican Conference on Applications and Usability of Interactive TV, jAUTI 2021, held in Sangolqui, Ecuador, during December 2-3, 2021. The 9 full papers included in this book were carefully reviewed and selected from 25 submissions. They were

organized in topical sections as follows: Usability and UX; interaction techniques and accessibility; and technologies, services, and applications for interactive digital TV. From past decades, Computational intelligence embraces a number of nature-inspired computational techniques which mainly encompasses fuzzy sets, genetic algorithms, artificial neural networks and hybrid neuro-fuzzy systems to address the computational complexities such as uncertainties, vagueness and stochastic nature of various computational problems practically. At the same time, Intelligent Control systems are emerging as an innovative methodology which is inspired by various computational intelligence process to promote a control over the systems without the use of any mathematical models. To address the effective use of intelligent control in Computational intelligence systems, International Conference on Intelligent Computing, Information and Control Systems (ICICCS 2019) is initiated to encompass the various research works that helps to develop and advance the next-generation intelligent computing and control systems. This book integrates the computational intelligence and intelligent control systems to provide a powerful methodology for a wide range of data analytics issues in industries and societal applications. The recent research advances in computational intelligence and control systems are addressed, which provide very promising results in various industry, business and societal studies. This book also presents the new algorithms and methodologies for promoting advances in common intelligent computing and control methodologies including evolutionary computation, artificial life, virtual infrastructures, fuzzy logic, artificial immune systems, neural networks and various neuro-hybrid methodologies. This book will be pragmatic for researchers, academicians and students dealing with mathematically intransigent problems. It is intended for both academicians and researchers in the field of Intelligent Computing, Information and Control Systems, along with the distinctive readers in the fields of computational and artificial intelligence to gain more knowledge on Intelligent computing and control systems and their real-world applications. The purpose of

robot vision is to enable robots to perceive the external world in order to perform a large range of tasks such as navigation, visual servoing for object tracking and manipulation, object recognition and categorization, surveillance, and higher-level decision-making. Among different perceptual modalities, vision is arguably the most important one. It is therefore an essential building block of a cognitive robot. This book presents a snapshot of the wide variety of work in robot vision that is currently going on in different parts of the world. This new edition of the classic electronics work has been updated to reflect tremendous changes in the field. New material includes digital computing, measurement and control circuits, computer-aided design, lasers and optoelectronics Very Good, No Highlights or Markup, all pages are intact. Computer vision deals with the problem of manipulating information contained in large quantities of sensory data, where raw data emerge from the transducing 6 7 sensors at rates between 10 to 10 pixels per second. Conventional general purpose computers are unable to achieve the computation rates required to operate in real time or even in near real time, so massively parallel systems have been used since their conception in this important practical application area. The development of massively parallel computers was initially characterized by efforts to reach a speedup factor equal to the number of processing elements (linear scaling assumption). This behavior pattern can nearly be achieved only when there is a perfect match between the computational structure or data structure and the system architecture. The theory of hierarchical modular systems (HMSs) has shown that even a small number of hierarchical levels can sizably increase the effectiveness of very large systems. In fact, in the last decade several hierarchical architectures that support capabilities which can overcome performances gained with the assumption of linear scaling have been proposed. Of these architectures, the most commonly considered in computer vision is the one based on a very large number of processing elements (PEs) embedded in a pyramidal structure. Pyramidal architectures supply the same image at different resolution levels, thus ensuring the use of the most

appropriate resolution for the operation, task, and image at hand. This book constitutes the thoroughly refereed proceedings of the 7th International Congress on Telematics and Computing, WITCOM 2018, held in Mazatlán, Mexico in November 2018. The 23 full papers presented in this volume were carefully reviewed and selected from 57 submissions. They present and organize the knowledge from within the field of telematics and security, data analytics and Machine Learning, IoT and mobile computing. Interest in the field of parallel processing has soared in this decade. Response to the annual conference held at Pheasant Run is clear proof: in the early 1980s just over 100 papers were submitted each year; in 1987 over 400 papers were considered. Such heightened interest is both gratifying and challenging in that the increasingly demanding applications in science, medicine, and industry that result from these studies are dependent upon the parallel systems as computing resources. The studies in this volume describe recent advances in all aspects of parallel/distributed logic circuits, impact of VLSI to parallel processor architecture, various concurrent-, distributed-, parallel-, pipeline-, or multiple-processor architectures; processor memory interconnections; computer networks; distributed databases; reliability and fault tolerance, modeling and simulation techniques; performance measurements; operating systems; languages; algorithms; mathematical analysis; and various application studies. A rigorous standard governed the paper selection process in an effort to insure that the proceedings reflect the state of the art in parallel processing theory, design, and applications. Of vital interest to researchers, engineers, scientists, programmers, systems analysts, managers, and other interested in the design and application of parallel/distributed processors and processing. Considers the application of modern control engineering on digital computers with a view to improving productivity and product quality, easing supervision of industrial processes and reducing energy consumption and pollution. The topics covered may be divided into two main subject areas: (1) applications of digital control - in the chemical and oil industries, in water turbines, energy and

power systems, robotics and manufacturing, cement, metallurgical processes, traffic control, heating and cooling; (2) systems theoretical aspects of digital control - adaptive systems, control aspects, multivariable systems, optimization and reliability, modelling and identification, real-time software and languages, distributed systems and data networks. Contains 84 papers. Autoregressive Conditional Heteroskedastic (ARCH) processes are used in finance to model asset price volatility over time. This book introduces both the theory and applications of ARCH models and provides the basic theoretical and empirical background, before proceeding to more advanced issues and applications. The Authors provide coverage of the recent developments in ARCH modelling which can be implemented using econometric software, model construction, fitting and forecasting and model evaluation and selection. Key Features: Presents a comprehensive overview of both the theory and the practical applications of ARCH, an increasingly popular financial modelling technique. Assumes no prior knowledge of ARCH models; the basics such as model construction are introduced, before proceeding to more complex applications such as value-at-risk, option pricing and model evaluation. Uses empirical examples to demonstrate how the recent developments in ARCH can be implemented. Provides step-by-step instructive examples, using econometric software, such as Econometric Views and the G@RCH module for the Ox software package, used in Estimating and Forecasting ARCH Models. Accompanied by a CD-ROM containing links to the software as well as the datasets used in the examples. Aimed at readers wishing to gain an aptitude in the applications of financial econometric modelling with a focus on practical implementation, via applications to real data and via examples worked with econometrics packages. From fundamental concepts and theories to implementation protocols and cutting-edge applications, the Handbook of Mobile Systems Applications and Services supplies a complete examination of the evolution of mobile services technologies. It examines service-oriented architecture (SOA) and explains why SOA and service oriented computing (SOC) will pl

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