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Ajith Abraham, Xin Hua Jiang, Václav Snášel, Jeng-Shyang Pan

Advances in Automation, Signal Processing, Instrumentation, and Control Venkata

Lakshmi Narayana Komanapalli,N. Sivakumaran,Santoshkumar Hampannavar,2021-03-04 This book presents the select proceedings of the International Conference on Automation, Signal Processing, Instrumentation and Control (i-CASIC) 2020. The book mainly focuses on emerging technologies in electrical systems, IoT-based instrumentation, advanced industrial automation, and advanced image and signal processing. It also includes studies on the analysis, design and implementation of instrumentation systems, and high-accuracy and energy-efficient controllers. The contents of this book will be useful for beginners, researchers as well as professionals interested in instrumentation and control, and other allied fields.

The Car Hacker's Handbook Craig Smith,2016-03-01 Modern cars are more computerized

than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to: -Build an accurate threat model for your vehicle -Reverse engineer the CAN bus to fake engine signals -Exploit vulnerabilities in

diagnostic and data-logging systems -Hack the ECU and other firmware and embedded systems
-Feed exploits through infotainment and vehicle-to-vehicle communication systems -Override factory settings with performance-tuning techniques -Build physical and virtual test benches to try out exploits safely If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

Practical Arduino Jonathan Oxer, Hugh Blemings, 2011-01-26 Create your own Arduino-based designs, gain in-depth knowledge of the architecture of Arduino, and learn the user-friendly Arduino language all in the context of practical projects that you can build yourself at home. Get hands-on experience using a variety of projects and recipes for everything from home automation to test equipment. Arduino has taken off as an incredibly popular building block among ubicomp (ubiquitous computing) enthusiasts, robotics hobbyists, and DIY home automation developers. Authors Jonathan Oxer and Hugh Blemings provide detailed instructions for building a wide range of both practical and fun Arduino-related projects, covering areas such as hobbies, automotive, communications, home automation, and instrumentation. Take Arduino beyond blink to a wide variety of projects from simple to challenging Hands-on recipes for everything from home automation to interfacing with your car engine management system Explanations of techniques and references to handy resources for ubiquitous computing projects Supplementary material includes a circuit schematic reference, introductions to a range of electronic engineering principles and general hints & tips. These combine with the projects themselves to make Practical Arduino: Cool Projects for Open Source Hardware an invaluable reference for Arduino users of all levels. You'll learn a wide variety of techniques that can be applied to your own projects.

Information and Communication Technology for Competitive Strategies (ICTCS 2021) Amit

Joshi,Mufti Mahmud,Roshan G. Ragel,2022-06-22 This book contains best selected research papers presented at ICTCS 2021: Sixth International Conference on Information and Communication Technology for Competitive Strategies. The conference will be held at Jaipur, Rajasthan, India, during December 17-18, 2021. The book covers state-of-the-art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications. This book contains papers mainly focused on ICT for computation, algorithms and data analytics, and IT security. The book is presented in two volumes.

Internet of Vehicles. Technologies and Services Towards Smart City Andrzej M.J. Skulimowski,Zhengguo Sheng,Sondès Khemiri-Kallel,Christophe Cérin,Ching-Hsien Hsu,2018-11-20 This book constitutes the proceedings of the 5th International Conference on the Internet of Vehicles, IOV 2018, which took place in Paris, France, in November 2018. This year's theme was "Technologies and Services Towards Smart City". The 21 papers presented in this volume were carefully reviewed and selected from 41 submissions. The papers are organized in topical sections named: IoV communications and networking; IoV clouds and services; vehicular modeling and simulation; and vehicular security and privacy.

Futuristic Sustainable Energy & Technology Rajesh Singh,Anita Gehlot,P.S. Ranjit,Dolly Sharma,2022-05-01 Futuristic Sustainable Energy and Technology provides a structured overview of the concept of Futuristic Sustainable Energy and Technology. It also explores the promotion of the sustainable development of renewable energy from the perspectives of technology, modelling, application, sustainability and policy. This book is dedicated to the advancement of energy efficiency to mitigate consumption, ensure and replenish, expand and reuse elective energy supplies, and to replicate the damage caused by previous energy initiatives. This book has offered a large stage of

experimentation for practitioners, experts, researchers and teachers to incorporate and analyze their latest developments, as well as the trends and difficulties encountered and the ongoing evolution of the stage in these areas.

Proceedings of the Second International Conference on Innovations in Computing Research (ICR'23) Kevin Daimi, Abeer Al Sadoon, 2023-06-16 The Second International Conference on Innovations in Computing Research (ICR'23) brings together a diverse group of researchers from all over the world with the intent of fostering collaboration and dissemination of the innovations in computing technologies. The conference is aptly segmented into six tracks: Data Science, Computer and Network Security, Health Informatics and Medical Imaging, Computer Science and Computer Engineering Education, Internet of Things, and Smart Cities/Smart Energy. These tracks aim to promote a birds-of-the-same-feather congregation and maximize participation. The Data Science track covers a wide range of topics including complexity score for missing data, deep learning and fake news, cyberbullying and hate speech, surface area estimation, analysis of gambling data, car accidents predication model, augmenting character designers' creativity, deep learning for road safety, effect of sleep disturbances on the quality of sleep, deep learning-based path-planning, vehicle data collection and analysis, predicting future stocks prices, and trading robot for foreign exchange. Computer and Network Security track is dedicated to various areas of cybersecurity. Among these are decentralized solution for secure management of IoT access rights, multi-factor authentication as a service (MFAaaS) for federated cloud environments, user attitude toward personal data privacy and data privacy economy, host IP obfuscation and performance analysis, and vehicle OBD-II port countermeasures. The Computer Science and Engineering Education track enfold various educational areas, such as data management in industry-academia joint research: a

perspective of conflicts and coordination in Japan, security culture and security education, training and awareness (SETA), influencing information security management, engaging undergraduate students in developing graphical user interfaces for NSF funded research project, and emotional intelligence of computer science teachers in higher education. On the Internet of Things (IoT) track, the focus is on industrial air quality sensor visual analytics, social spider optimization meta-heuristic for node localization optimization in wireless sensor networks, and privacy aware IoT-based fall detection with infrared sensors and deep learning. The Smart Cities and Smart Energy track spans various areas, which include, among others, research topics on heterogeneous transfer learning in structural health monitoring for high-rise structures and energy routing in energy Internet using the firefly algorithm.

Proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing Nitin Afzalpulkar,Vishnu Srivastava,Ghanshyam Singh,Deepak Bhatnagar,2016-04-28 This volume comprises the proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing. It brings together content from academicians, researchers, and industry experts in areas of Wireless Communication and Image Processing. The volume provides a snapshot of current progress in computational creativity and a glimpse of future possibilities. The proceedings include two kinds of paper submissions: (i) regular papers addressing foundation issues, describing original research on creative systems development and modeling; and (ii) position papers describing work-in-progress or research directions for computational creativity. This work will be useful to professionals and researchers working in the core areas of wireless communications and image processing.

Bioinformatics and Medical Applications A. Suresh,S. Vimal,Y. Harold Robinson,Dhinesh Kumar

Ramaswami,R. Udendhran,2022-03-24 BIOINFORMATICS AND MEDICAL APPLICATIONS The main topics addressed in this book are big data analytics problems in bioinformatics research such as microarray data analysis, sequence analysis, genomics-based analytics, disease network analysis, techniques for big data analytics, and health information technology. Bioinformatics and Medical Applications: Big Data Using Deep Learning Algorithms analyses massive biological datasets using computational approaches and the latest cutting-edge technologies to capture and interpret biological data. The book delivers various bioinformatics computational methods used to identify diseases at an early stage by assembling cutting-edge resources into a single collection designed to enlighten the reader on topics focusing on computer science, mathematics, and biology. In modern biology and medicine, bioinformatics is critical for data management. This book explains the bioinformatician's important tools and examines how they are used to evaluate biological data and advance disease knowledge. The editors have curated a distinguished group of perceptive and concise chapters that presents the current state of medical treatments and systems and offers emerging solutions for a more personalized approach to healthcare. Applying deep learning techniques for data-driven solutions in health information allows automated analysis whose method can be more advantageous in supporting the problems arising from medical and health-related information. Audience The primary audience for the book includes specialists, researchers, postgraduates, designers, experts, and engineers, who are occupied with biometric research and security-related issues.

Artificial Intelligence and Applied Mathematics in Engineering Problems D. Jude Hemanth,Utku Kose,2020-01-03 This book features research presented at the 1st International Conference on Artificial Intelligence and Applied Mathematics in Engineering, held on 20-22 April 2019 at Antalya,

Manavgat (Turkey). In today's world, various engineering areas are essential components of technological innovations and effective real-world solutions for a better future. In this context, the book focuses on problems in engineering and discusses research using artificial intelligence and applied mathematics. Intended for scientists, experts, M.Sc. and Ph.D. students, postdocs and anyone interested in the subjects covered, the book can also be used as a reference resource for courses related to artificial intelligence and applied mathematics.

Computer Aided Systems Theory – EUROCAST 2022 Roberto Moreno-Díaz, Franz Pichler, Alexis Quesada-Arencibia, 2023-02-09 This book constitutes the refereed proceedings of the 18th International Conference on Computer-Aided Systems Theory, EUROCAST 2022, held in Las Palmas de Gran Canaria, Spain, during February 20–25, 2022. The 77 full papers included in this book were carefully reviewed and selected from 110 submissions. They were organized in topical sections as follows: Systems Theory and Applications, Theory and Applications of Metaheuristic Algorithms, Model-Based System Design, Verification and Simulation, Applications of Signal Processing Technology, Artificial Intelligence and Data Mining for Intelligent Transportation Systems and Smart Mobility, Computer Vision, Machine Learning for Image Analysis and Applications, Computer and Systems Based Methods and Electronic Technologies in Medicine, Systems in Industrial Robotics, Automation and IoT, Systems Thinking. Relevance for Technology, Science and Management Professionals.

International Conference on Multi disciplinary Technologies and challenges in Industry 4.0 Dr. Prakash s, dr. Silvia liberataullo, dr. Yogesh g s, dr. I manimozhi, prof. Shilpa patil.,

Raspberry Pi Android Projects Gokhan Kurt, 2015-09-25 Create exciting projects by connecting the Raspberry Pi to your Android phone About This Book Manage most of the fundamental functions

of Raspberry Pi from your Android phone Use the projects created in this book to develop even more exciting projects in the future A project-based learning experience to help you discover amazing ways to combine the power of Android and Raspberry Pi Who This Book Is For The target audience for this book includes Raspberry Pi enthusiasts, hobbyists, and anyone who wants to create engaging projects with Android OS. Some knowledge of Android programming would be helpful. What You Will Learn Install the tools required on your Pi and Android to manage and administer the Pi from Android Share your files between different Android devices using the Pi as a server Set up the Pi to live-stream the camera in surveillance mode and customize Android to receive this content Turn your Pi into a media center and control it from your Android See your Android display on a large screen using Raspberry Pi Connect your car's dashboard to your Android device using Raspberry Pi In Detail Raspberry Pi is the credit card-sized, general purpose computer which has revolutionized portable technology. Android is an operating system that widely used in mobile phones today both on the high and low ends of the mobile phone market. However, there is little information about how to connect the two in spite of how popular both of them are. Raspberry Pi Android Projects starts with simple projects that help you access the command prompt and the desktop environment of Raspberry Pi from the comfort of your Android phone or tablet. Then, you will be introduced to more complex projects that combine the strengths of the Pi and Android in amazing ways. These projects will teach you how to manage services on the Pi from Android, share files between Android devices using the Pi as a server, administer and view the Pi's camera from Android in surveillance mode, and connect your car to the Pi and make data more accessible using Android. The introductory projects covered will be useful each time you need to access or administer your Pi for other purposes, and the more advanced projects will continue to be valuable even after you become an expert on Pi. By

the end of this book, you will be able to create engaging and useful projects that will help you combine the powers of both Android and Raspberry Pi. Style and approach A quick and easy-to-follow guide that will show how you can add up the power of Pi and Android by combining them.

Artificial Intelligence to Analyze Psychophysical and Human Lifestyle Gunjan Chhabra, Sunil Kumar, Sunil Gupta, Pooja Nagpal, 2023-09-19 This book is about the use of technology/artificial intelligence in the areas of human behavior and psychology, health and nutrition, and fitness and sports. Everybody has his/her own lifestyle but may not necessarily be aware of what constitutes a healthy lifestyle. Knowledge gained from the Internet may be scattered and inaccurate and, if adhered to, may lead to loss of life. The COVID-19 pandemic increased people's awareness of the need for a healthy lifestyle but how to adopt a healthy lifestyle is something to be clarified since every individual is different (body type, situation, etc.), and hence, their needs will be different as well. This book addresses such questions and explores how the use of technology in the areas mentioned above can enable each individual to easily achieve a healthy lifestyle.

Advanced Automotive Fault Diagnosis Tom Denton, 2016-07-07 Learn all the skills you need to pass Level 3 and 4 Vehicle Diagnostic courses from IMI, City and Guilds and BTEC, as well as higher levels, ASE, AUR and other qualifications. Advanced Automotive Fault Diagnosis explains the fundamentals of vehicle systems and components and examines diagnostic principles as well as the latest techniques employed in effective vehicle maintenance and repair. Diagnostics, or fault finding, is an essential part of an automotive technician's work, and as automotive systems become increasingly complex there is a greater need for good diagnostics skills. For students new to the subject, this book will help to develop these skills, but it will also assist experienced technicians to

further improve their performance and keep up with recent industry developments. Checked and endorsed by the Institute of to him to ensure that it is ideal for both independent and tutor-based study Diagnostics case studies to help you put the principles covered into real-life context Useful margin features throughout, including definitions, key facts and 'safety first' considerations

Light Vehicle Diesel Engines Gus Wright, 2018-03-30 Light Vehicle Diesel Engines, published as part of the CDX Master Automotive Technician Series, prepares students with practical, accessible information necessary for ASE A9 certification. Taking a “strategy-based diagnostic” approach, it covers how to maintain, diagnose, and repair light and medium-duty diesel engines, increasingly common in North American, Asian and European vehicles and trucks.

A Manual for All Car Owners Keith Thompson, 2014-09-15 Learn how easy it is to replace these simple items instead of paying outrageous labor fees when seeking out someone to replace a part for the most or easier to replace than one may expect. Read it anytime anywhere on your Smart Phone or any Tablet. Most parts that trigger a engine light condition only take 10 to 30 minutes to replace. Explains the simplicity or complexity to replace yourself or seek professional assistance. Explains that 50% or more of these parts can be replaced by oneself with just the a screwdriver or wrench, harder more difficult to get to parts will require the same along with a jacks and jack stands for safety, but overall quite simple.

Automotive Computerized and Electrical Diagnostics Technology Asoro Osasumwen, 2020-06-03 AUTOMOTIVE COMPUTERIZED AND ELECTRICAL DIAGNOSTICS TECHNOLOGY is a book that deals with the technology behind computerized and electrical diagnosis of systems and components in the vehicle. This book provides theories of the operations of the On-Board Diagnostic (OBD) protocol; which include the OBD I and OBD II protocol. This book is

present a practical approach to automotive diagnostic technology, with step by step analysis. The book also entails the use of various kind of diagnostic tools for various diagnostics operations, the terminology involves in the diagnostic procedure and also the technology behinds its operation. The render step by step procedures of diagnostics operations which is compatible for all kind of diagnostic tool, with necessary advices on how to perform the operations. It also touches all kind of diagnostic tools and diagnostics operation available in the automotive technology industry. This book also cover aspect such as Electronic Control Unit (ECU) reprogramming and repairs, it involves reprogramming of various systems and components in the vehicle. Some key topics in this book involves: 1. AUTOMOTIVE DIAGNOSTICS TECHNOLOGY. 2. THE ON-BOARD DIAGNOSTICS (OBD I) SYSTEM/PROTOCOL. 3. HOW TO DIAGNOSE USING OBD I PROTOCOL. 4. ON-BOARD DIAGNOSTIC (OBD II) SYSTEM/PROTOCOL. 5. DIAGNOSTIC TOOLS/SCANNERS. 6. ELM327. 7. LIMITATIONS OF ELM327. 8. ELECTRONIC CONTROL UNIT (ECU) AND SENSORS. 9. CONTROLLER AREA NETWORK (CAN). 10. CHECK ENGINE LIGHT. 11. CODE READERS VERSUS DIAGNOSTIC SCANNERS. 12. CURRENT AND STORED FAULTS CODES. 13. SOFTWARE/APPLICATIONS FOR DIAGNOSTICS TOOLS. 14. CRACKED SOFTWARE VERSION AND CLONED SCAN TOOLS. 15. IMMOBILIZERS. 16. VIN- VEHICLE IDENTIFICATION NUMBER. 17. SCN- SOFTWARE CALIBRATION NUMBER coding. 18. MULTIPLEXING. 19. WARNING LIGHTS. 20. SENSORS AND APPLICATIONS. 21. APPLICATION OF SENSORS IN BRAKING AND STABILITY SYSTEM OF VEHICLES. 22. AUTOMOBILE DIAGNOSTIC TECHNOLOGY IN AFRICA (TAKING NIGERIA AS A CASE STUDY). 23. IMPORTANCE OF EVENT/HISTORY RECORDS IN AUTO DIAGNOSTICS TECHNOLOGY. 24. IMPORTANCE OF REGULAR DIAGNOSTICS OPERATION. 25. MECHATRONICS IN AUTOMOBILE DIAGNOSTICS TECHNOLOGY. 26. ELECTRIC VEHICLES. 27.

CLASSIFICATION AND FEATURES OF DIAGNOSTIC TOOLS/SCANNERS.28. GENERIC FAULT CODES.29. CHOOSING A DIAGNOSTIC TOOL/SCANNER.30. HOW TO USE A DIAGNOSTIC TOOL/SOFTWARE.31. STEP BY STEP DIAGNOSTIC PROCEDURE.32. REPROGRAMMING OF SYSTEMS AND COMPONENTS IN THE VEHICLE.33. STEPS TO REPROGRAM THE AIRBAG SYSTEM.34. IMMOBILIZER AND ECU REPROGRAMMING.35. PIN GENERATION FOR REPROGRAMMING.36. HOW TO REPROGRAM KEY TO THE IMMOBILIZER AND ECU.37. HOW TO GENERATE PASSCODE OR PIN FROM THE MANUFACTURER OR SERVICE PROVIDER.38. HOW DOES THE IMMOBILIZER SYSTEM WORKS.39. HOW TO DETECT AND DEAL WITH FAULTS IN THE IMMOBILIZER SYSTEM.40. VARIOUS FAULTS IN THE IMMOBILIZER SYSTEM AND SOLUTION.41. LIMITATIONS OF SOME DIAGNOSTIC TOOLS ON SCANNING AND REPROGRAMMING THE IMMOBILIZER SYSTEM.42. HOW TO REPROGRAM THE IMMOBILIZER SYSTEM. 43. HOW TO KNOW AN IMMOBILIZER UNIT IS FAULTY.44. HOW TO KNOW A FAULTY ECU.45. DIAGNOSTIC TOOL/SOFTWARE FOR ECU/IMMOBILIZER REPROGRAMMING.46. ELECTRICAL ERASABLE PROGRAMMABLE READ ONLY MEMORY-EEPROM.47. ECU MAPPING.48. ECU TURNING.49. POWERTRAIN CONTROL MODULE (PCM).50. GENERIC DIAGNOSTIC TROUBLE CODES (DTC).51. GENERIC DIAGNOSTIC TROUBLE CODES (DTC) WITH THEIR DESCRIPTION.

Business Modeling and Software Design Boris Shishkov,2020-07-06 This book constitutes the refereed proceedings of the 10th International Symposium on Business Modeling and Software Design, BMSD 2020, which took place in Berlin, Germany, in July 2020. BMSD is a leading international forum that brings together researchers and practitioners interested in business modeling and its relation to software design. Particular areas of interest are: Business Processes and

Enterprise Engineering; Business Models and Requirements; Business Models and Services; Business Models and Software; Information Systems Architectures and Paradigms; Data Aspects in Business Modeling and Software Development; Blockchain-Based Business Models and Information Systems; IoT and Implications for Enterprise Information Systems. The theme of BMSD 2020 was: Towards Knowledge-Driven Enterprise Information Systems.

Intelligent Data Analysis and Applications Ajith Abraham,Xin Hua Jiang,Václav Snášel,Jeng-Shyang Pan,2015-07-14 This volume of Advances in Intelligent Systems and Computing contains accepted papers presented in the main track of ECC 2015, the Second Euro-China Conference on Intelligent Data Analysis and Applications. The aim of ECC is to provide an internationally respected forum for scientific research in the broad area of intelligent data analysis, computational intelligence, signal processing, and all associated applications of AIs. The second edition of ECC was organized jointly by VSB - Technical University of Ostrava, Czech Republic, and Fujian University of Technology, Fuzhou, China. The conference, organized under the patronage of Mr. Miroslav Novak, President of the Moravian-Silesian Region, took place in late June and early July 2015 in the Campus of the VSB - Technical University of Ostrava, Czech Republic.

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