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Embedded Systems Architecture
 Robotic Systems: Concepts, Methodologies, Tools, and Applications
 Recent Advances in Ambient Intelligence and Context-Aware Computing
 Proceedings of ICCDN 2020
 Select Proceedings of ETBS 2021
 Third EAI International Conference, InterSol 2019, Cairo, Egypt, February 14–15, 2019, Proceedings
 Select Proceedings of ICROME 2020
 International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018
 HCI International 2019 - Posters
 Proceedings of CISCON 2018
 Applications in Electronics Pervading Industry, Environment and Society
 Proceedings of the 1st International Conference on Electronics, Biomedical Engineering, and Health Informatics
 Proceedings of ICTIS 2020, Volume 2
 Concepts, Methodologies, Tools, and Applications
 Information and Communication Technology for Intelligent Systems
 21st International Conference, HCII 2019, Orlando, FL, USA, July 26–31, 2019, Proceedings, Part III
 Emergent Converging Technologies and Biomedical Systems
 Proceedings of ICSCN 2020
 Concepts, Methodologies, Tools, and Applications
 Internet of Things and M2M Communication Technologies
 Advances in Parallel Computing Technologies and Applications
 Architecture and Practical Design Approach to IoT in Industry 4.0
 Inventive Computation Technologies
 DOMÓTICA - Automação Residencial e Casas Inteligentes com Arduino e ESP8266
 Proceedings of ESAI 2019, Fez, Morocco
 Proceedings of ICDSIA 2020
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 Hc-05 Bluetooth + Arduino
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 International Conference on Communication, Computing and Electronics Systems
 Robotics
 Advances in Communication, Devices and Networking
 Includes the Zs-040
 Control Instrumentation Systems
 5th International Conference, CITI 2019, Guayaquil, Ecuador, December 2–5, 2019, Proceedings
 Make: Bluetooth
 Proceedings of Second MRCN 2021
 Bluetooth LE Projects with Arduino, Raspberry Pi, and Smartphones
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CUEVAS TANIYA

Embedded Systems Architecture Springer

This book constitutes the proceedings of the 5th International Conference on Technologies and Innovation, CITI 2019, held in Guayaquil, Ecuador, in December 2019. The 14 full papers presented in this volume were carefully reviewed and selected from 32 submissions. They are organized in topical sections named: ICT in agronomy; knowledge-based systems and pattern recognition; internet of things and computer architecture.

Robotic Systems: Concepts, Methodologies, Tools, and Applications IGI Global

This volume contains selected papers which had been presented during CISCON 2018. The papers cover the latest trends in the fields of instrumentation, sensors and systems, industrial automation & control, image and signal processing, robotics, renewable energy, power systems and power

drives, with focus on solving the current challenges faced in the field of instrumentation and control engineering. This volume will be of use to academic and industry researchers and students working in this field.

Recent Advances in Ambient Intelligence and Context-Aware Computing Springer Science & Business Media

This book presents the select proceedings of the International Conference on Recent Advancements in Mechanical Engineering (ICROME 2020). It provides a comprehensive overview of the various technical challenges faced, their systematic investigation, contemporary developments, and future perspectives in the domain of mechanical engineering. The book covers a wide array of topics including fluid flow techniques, compressible flows, waste management and waste disposal, bio-fuels, renewable energy, cryogenic applications, computing in applied mechanics, product design, dynamics and control of structures, fracture and failure mechanics, solid mechanics, finite element analysis, tribology, nano-mechanics and MEMS, robotics, supply chain management and logistics, intelligent manufacturing system, rapid prototyping and reverse

engineering, quality control and reliability, conventional and non-conventional machining, and ergonomics. This book can be useful for students and researchers interested in mechanical engineering and its allied fields.

Proceedings of ICCDN 2020 Springer Nature

Embedded Systems Architecture is a practical and technical guide to understanding the components that make up an embedded system's architecture. This book is perfect for those starting out as technical professionals such as engineers, programmers and designers of embedded systems; and also for students of computer science, computer engineering and electrical engineering. It gives a much-needed 'big picture' for recently graduated engineers grappling with understanding the design of real-world systems for the first time, and provides professionals with a systems-level picture of the key elements that can go into an embedded design, providing a firm foundation on which to build their skills. Real-world approach to the fundamentals, as well as the design and architecture process, makes this book a popular reference for the daunted or the inexperienced: if in doubt, the answer is in here! Fully updated with new

coverage of FPGAs, testing, middleware and the latest programming techniques in C, plus complete source code and sample code, reference designs and tools online make this the complete package Visit the companion web site at <http://booksite.elsevier.com/9780123821966/> for source code, design examples, data sheets and more A true introductory book, provides a comprehensive get up and running reference for those new to the field, and updating skills: assumes no prior knowledge beyond undergrad level electrical engineering Addresses the needs of practicing engineers, enabling it to get to the point more directly, and cover more ground. Covers hardware, software and middleware in a single volume Includes a library of design examples and design tools, plus a complete set of source code and embedded systems design tutorial materials from companion website

[Select Proceedings of ETBS 2021](#) "O'Reilly Media, Inc."

This book covers recent trends in the field of devices, wireless communication and networking. It gathers selected papers presented at the International Conference on Communication, Devices and Networking (ICCDN 2020), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India, on 19–20 December 2020. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it helps young and experienced scientists and developers alike to explore new perspectives, and offer them inspirations on how to address real-world problems in the areas of electronics, communication, devices and networking.

[Third EAI International Conference, InterSol 2019, Cairo, Egypt, February 14–15, 2019, Proceedings](#) Springer Nature

In this DIY guide, you will learn how to use Arduino – the open-source hardware board for makers, hobbyists, and inventors. You will learn how to develop your own projects, create prototypes, and produce professional-quality embedded systems. A simple step-by-step demonstration system accompanies you from vision to reality – and just like riding a bike, you'll get better at it, the more you do it. Featuring a wealth of detailed diagrams and more than 50 fully functional examples, this book will help you get the most out of this versatile tool and bring your electronic inventions to life. [Select Proceedings of ICROME 2020](#) Springer Nature

This volume presents a collection of peer-reviewed, scientific articles from the 14th International Conference on Information Technology – New Generations, held at the University of Nevada at Las Vegas on April 10–12, at Tuscan Suites Hotel in Las Vegas. The Book of Chapters addresses critical areas of information technology including web technology, communications, computing architectures, software engineering, security, and data mining.

[International Conference on Intelligent Data Communication Technologies and Internet of Things \(ICICI\) 2018](#) IGI Global

This Conference proceeding presents high-quality peer-reviewed papers from the International Conference on Electronics, Biomedical Engineering, and Health Informatics (ICEBEHI) 2020 held at Surabaya, Indonesia. The contents are broadly divided into three parts: (i) Electronics, (ii) Biomedical Engineering, and (iii) Health Informatics. The major focus is on emerging technologies and their applications in the domain of biomedical engineering. It includes papers based on original theoretical, practical, and experimental simulations, development, applications, measurements, and testing. Featuring the latest advances in the field of biomedical engineering applications, this book serves as a definitive reference resource for researchers, professors, and practitioners interested in exploring advanced techniques in the field of electronics, biomedical engineering, and health informatics. The applications and solutions discussed here provide excellent reference material for future product development.

[HCI International 2019 - Posters](#) Springer

This book consists of papers presented at Automation 2017, an international conference held in Warsaw from March 15 to 17, 2017. It discusses research findings associated with the concepts behind INDUSTRY 4.0, with a focus on offering a better understanding of and promoting participation in the Fourth Industrial Revolution. Each chapter presents a detailed analysis of a specific technical problem, in most cases followed by a numerical analysis, simulation and description of the results of implementing the solution in a real-world context. The theoretical results, practical solutions and guidelines presented are valuable for both researchers working in the area of engineering sciences and practitioners looking for solutions to industrial problems. [Proceedings of CISCON 2018](#) Saraiva Educação S.A.

Proceedings of the 2013 Chinese Intelligent Automation Conference presents selected research papers from the CIAC'13, held in Yangzhou, China. The topics include e.g. adaptive control, fuzzy

control, neural network based control, knowledge based control, hybrid intelligent control, learning control, evolutionary mechanism based control, multi-sensor integration, failure diagnosis, and reconfigurable control. Engineers and researchers from academia, industry, and government can gain an inside view of new solutions combining ideas from multiple disciplines in the field of intelligent automation. Zengqi Sun and Zhidong Deng are professors at the Department of Computer Science, Tsinghua University, China.

[Applications in Electronics Pervading Industry, Environment and Society](#) Springer Nature

This book gathers selected research papers presented at the First International Conference on Embedded Systems and Artificial Intelligence (ESAI 2019), held at Sidi Mohamed Ben Abdellah University, Fez, Morocco, on 2–3 May 2019. Highlighting the latest innovations in Computer Science, Artificial Intelligence, Information Technologies, and Embedded Systems, the respective papers will encourage and inspire researchers, industry professionals, and policymakers to put these methods into practice.

[Proceedings of the 1st International Conference on Electronics, Biomedical Engineering, and Health Informatics](#) Springer Nature

This book provides an analysis of the role of fog computing, cloud computing, and Internet of Things in providing uninterrupted context-aware services as they relate to Healthcare 4.0. The book considers a three-layer patient-driven healthcare architecture for real-time data collection, processing, and transmission. It gives insight to the readers for the applicability of fog devices and gateways in Healthcare 4.0 environments for current and future applications. It also considers aspects required to manage the complexity of fog computing for Healthcare 4.0 and also develops a comprehensive taxonomy.

[Proceedings of ICTIS 2020, Volume 2](#) IOS Press

This book constitutes the refereed proceedings of the 12th Latin American Robotics Symposium and Third Brazilian Symposium on Robotics, LARS 2015 / SBR 2015, held in Uberlândia, Brazil, in October/November 2015. The 17 revised full papers presented were carefully reviewed and selected from 80 submissions. The selected papers present a complete and solid reference of the state-of-the-art of intelligent robotics and automation research, covering the following areas: autonomous mobile robots, tele-operated and telepresence robots, human-robot interaction, trajectory control for mobile robots, autonomous vehicles, service-oriented robotic systems, semantic mapping, environment mapping, visual odometry, applications of RGB-D sensors, humanoid and biped robots, Robocup soccer robots, robot control, path planning, multiple vehicles and teams of robots. /div

[Concepts, Methodologies, Tools, and Applications](#) Springer

Vivemos em um mundo em que cada vez mais encontramos sistemas de automatização ao nosso redor. Já nos acostumamos com controles remotos em televisões, sistemas de home theaters, aparelhos de ar-condicionados, entre outras comodidades. Em casas mais modernas, vemos sistemas de climatização, controle de iluminação personalizado e diferentes sistemas de monitoramento. Mas somente isso não basta; queremos mais. Estamos vivendo um período de Internet das Coisas (IoT) e desejamos ter comunicação e informações nos mais diferentes lugares. Queremos nos comunicar com o que é nosso e não apenas automatizar, mas inserir conforto e inteligência à nossa volta. Diante deste cenário, este livro tenta fazer com que o leitor compreenda a necessidade de utilizar vários sensores e equipamentos para que uma casa automatizada e inteligente seja viável, abordando os requisitos para personalização de ambientes, com requisito de baixo custo, inseridos nos conceitos da IoT.

[Information and Communication Technology for Intelligent Systems](#) Springer Nature

This book discusses data communication and computer networking, communication technologies and the applications of IoT (Internet of Things), big data, cloud computing and healthcare informatics. It explores, examines and critiques intelligent data communications and presents inventive methodologies in communication technologies and IoT. Aimed at researchers and academicians who need to understand the importance of data communication and advanced technologies in IoT, it offers different perspectives to help readers increase their knowledge and motivates them to conduct research in the area, highlighting various innovative ideas for future research.

[21st International Conference, HCII 2019, Orlando, FL, USA, July 26–31, 2019, Proceedings, Part III](#) Newnes

This book provides a thorough overview of cutting-edge research on electronics applications relevant to industry, the environment, and society at large. It covers a broad spectrum of

application domains, from automotive to space and from health to security, while devoting special attention to the use of embedded devices and sensors for imaging, communication and control. The book is based on the 2018 ApplePies Conference, held in Pisa, Italy in September 2018, which brought together researchers and stakeholders to consider the most significant current trends in the field of applied electronics and to debate visions for the future. Areas addressed by the conference included information communication technology; biotechnology and biomedical imaging; space; secure, clean and efficient energy; the environment; and smart, green and integrated transport. As electronics technology continues to develop apace, constantly meeting previously unthinkable targets, further attention needs to be directed toward the electronics applications and the development of systems that facilitate human activities. This book, written by industrial and academic professionals, represents a valuable contribution in this endeavor.

[Emergent Converging Technologies and Biomedical Systems](#) Springer Nature

This book includes selected papers from the International Conference on Data Science and Intelligent Applications (ICDSIA 2020), hosted by Gandhinagar Institute of Technology (GIT), Gujarat, India, on January 24–25, 2020. The proceedings present original and high-quality contributions on theory and practice concerning emerging technologies in the areas of data science and intelligent applications. The conference provides a forum for researchers from academia and industry to present and share their ideas, views and results, while also helping them approach the challenges of technological advancements from different viewpoints. The contributions cover a broad range of topics, including: collective intelligence, intelligent systems, IoT, fuzzy systems, Bayesian networks, ant colony optimization, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence, speech processing, machine learning and deep learning, and intelligent applications and systems. Helping strengthen the links between academia and industry, the book offers a valuable resource for instructors, students, industry practitioners, engineers, managers, researchers, and scientists alike.

[Proceedings of ICSCN 2020](#) Springer Nature

The three-volume set CCIS 1032, CCIS 1033, and CCIS 1034 contains the extended abstracts of the posters presented during the 21st International Conference on Human-Computer Interaction, HCII 2019, which took place in Orlando, Florida, in July 2019. The total of 1274 papers and 209 posters included in the 35 HCII 2019 proceedings volumes was carefully reviewed and selected from 5029 submissions. The 208 papers presented in these three volumes are organized in topical sections as follows: Part I: design, development and evaluation methods and technique; multimodal Interaction; security and trust; accessibility and universal access; design and user experience case studies. Part II: interacting with games; human robot interaction; AI and machine learning in HCI; physiological measuring; object, motion and activity recognition; virtual and augmented reality; intelligent interactive environments. Part III: new trends in social media; HCI in business; learning technologies; HCI in transport and autonomous driving; HCI for health and well-being.

[Concepts, Methodologies, Tools, and Applications](#) IGI Global

Through expanded intelligence, the use of robotics has fundamentally transformed a variety of fields, including manufacturing, aerospace, medicine, social services, and agriculture. Continued research on robotic design is critical to solving various dynamic obstacles individuals, enterprises, and humanity at large face on a daily basis. Robotic Systems: Concepts, Methodologies, Tools, and Applications is a vital reference source that delves into the current issues, methodologies, and trends relating to advanced robotic technology in the modern world. Highlighting a range of topics such as mechatronics, cybernetics, and human-computer interaction, this multi-volume book is ideally designed for robotics engineers, mechanical engineers, robotics technicians, operators, software engineers, designers, programmers, industry professionals, researchers, students, academicians, and computer practitioners seeking current research on developing innovative ideas for intelligent and autonomous robotics systems.

[Internet of Things and M2M Communication Technologies](#) IJAICT India Publications

This book includes high impact papers presented at the International Conference on Communication, Computing and Electronics Systems 2019, held at the PPG Institute of Technology, Coimbatore, India, on 15-16 November, 2019. Discussing recent trends in cloud computing, mobile computing, and advancements of electronics systems, the book covers topics such as automation, VLSI, embedded systems, integrated device technology, satellite communication, optical communication, RF communication, microwave engineering, artificial intelligence, deep learning, pattern recognition, Internet of Things, precision models, bioinformatics, and healthcare

informatics.

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