

# Open Source Code lot Platform Ayla Networks

20th International Conference on Hybrid Intelligent Systems (HIS 2020), December 14-16, 2020  
 Building A Digital Enabled Business Model  
 Advances in Soft Computing  
 Internet of Things  
 11th International Symposium on Ambient Intelligence  
 Components and Services for IoT Platforms  
 Internet of Things From Hype to Reality  
 17th International Conference, Trieste, Italy, July 3-6, 2017, Proceedings, Part V  
 ESP8266 Internet of Things Cookbook  
 Advanced Deep Learning Applications in Big Data Analytics  
 Healthcare and Knowledge Management for Society 5.0  
 Internet of Things for Indoor Air Quality Monitoring  
 Trends, Issues, and Innovations  
 Building NodeBots with Johnny-Five, Raspberry Pi, Arduino, and BeagleBone  
 Handbook of Research on Big Data and the IoT  
 Euro-Par 2018: Parallel Processing Workshops  
 IoT Protocols and Applications for Improving Industry, Environment, and Society  
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 Newbie's Guide to IoT  
 Proceedings of the 1st International Conference on Human Interaction and Emerging Technologies (IHET 2019), August 22-24, 2019, Nice, France  
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 Internet of Things – ICIOT 2018

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## PEARSON SANAA

20th International Conference on Hybrid Intelligent Systems (HIS 2020), December 14-16, 2020 John Wiley & Sons  
 This book presents the main theoretical foundations behind smart services as well as specific guidelines and practically proven methods on how to design them. Furthermore, it gives an overview of the possible implementation architectures and shows how the designed smart services can be realized with specific technologies. Finally, it provides four specific use cases that show how smart services have been realized in practice and what impact they have within the businesses. The first part of the book defines the basic concepts and aims to establish a shared understanding of terms, such as smart services, service systems, smart service systems or cyber-physical systems. On this basis, it provides an analysis of existing work and includes insights on how an organization incorporating smart services could enhance and adjust their management and business processes. The second part on the design of smart services elaborates on what constitutes a successful smart service and describes experiences in the area of interdisciplinary teams, strategic partnerships, the overall service systems and the common data basis. In the third part, technical reference architectures are presented in detail, encompassing topics on the design of digital twins in cyber physical systems, the communication between entities and sensors in the age of Industry 4.0 as well as data management and integration. The fourth part then highlights a number of analytical possibilities that can be realized and that can constitute or be part of smart services, including machine learning and artificial intelligence methods. Finally, the applicability of the introduced design and development method is demonstrated by considering specific real-world use cases. These include services in the industrial and mobility sector, which were developed in direct cooperation with industry partners. The main target audience of this book is industry-focused readers, especially practitioners from industry, who are involved in supporting and managing digital business. These include professionals working in business development, product management, strategy, and development, ranging from middle management to Chief Digital Officers. It conveys all the basics needed for developing smart services and successfully placing them on the market by explaining technical aspects as well as showcasing practical use cases.  
Building A Digital Enabled Business Model Springer Nature  
 "This book studies how daily life operates using many objects with Internet connections such as smartphones, tablets, Smart TVs, micro-controllers, Smart Tags, computers, laptops, cars, cheaper

sensors, and more, commonly referred to as the Internet of Things. To accommodate this new connected structure, readers will learn how improved wireless strategies drive the need for a better IoT network"--  
Advances in Soft Computing Software AG  
 Internet of Things: Technologies and Applications for a New Age of Intelligence outlines the background and overall vision for the Internet of Things (IoT) and Cyber-Physical Systems (CPS), as well as associated emerging technologies. Key technologies are described including device communication and interactions, connectivity of devices to cloud-based infrastructures, distributed and edge computing, data collection, and methods to derive information and knowledge from connected devices and systems using artificial intelligence and machine learning. Also included are system architectures and ways to integrate these with enterprise architectures, and considerations on potential business impacts and regulatory requirements. Presents a comprehensive overview of the end-to-end system requirements for successful IoT solutions Provides a robust framework for analyzing the technology and market requirements for a broad variety of IoT solutions Covers in-depth security solutions for IoT systems Includes a detailed set of use cases that give examples of real-world implementation  
**Internet of Things** Springer  
 If you've searched for "Internet of Things" on the web, you've found seemingly endless articles to read. The same is true for acronyms. It's a technical alphabet soup, enough to give you a headache. Here's your relief, "Newbie's Guide to IoT," an IoT for beginners ebook. Written for the businessperson—the non-developer—the guide explains in plain English: - What IoT is - Why a company would use IoT - Types of IoT applications and platforms - How to build a business case - 10 tips for success on your first IoT project Go from newbie to know-IoT-all with this easy read on all things IoT.  
**11th International Symposium on Ambient Intelligence** Ad Hoc Networks  
 7th International Conference, AdHocHets 2015, San Remo, Italy, September 1-2, 2015. Proceedings  
 Exploring the low cost WiFi module About This Book Leverage the ESP8266's on-board processing and storage capability Get hands-on experience of working on the ESP8266 Arduino Core and its various libraries A practical and enticing recipe-based book that will teach you how to make your environment smart using the ESP8266 Who This Book Is For This book is targeted at IoT enthusiasts who are well versed with electronics concepts and have a very basic familiarity with the ESP8266. Some experience with programming will be an advantage. What You Will Learn Measure data from a digital temperature and humidity sensor using the ESP8266 Explore advanced ESP8266 functionalities Control devices from anywhere in the world using MicroPython

Troubleshoot issues with cloud data monitoring Tweet data from the Arduino board Build a cloud-connected power-switch with the ESP8266 Create an ESP8266 robot controlled from the cloud In Detail The ESP8266 Wi-Fi Module is a self contained System on Chip (SOC) with an integrated TCP/IP protocol stack and can give any microcontroller access to your Wi-Fi network. It is capable of either hosting an application or offloading all Wi-Fi networking functions from another application processor. This book contains practical recipes that will help you master all ESP8266 functionalities. You will start by configuring and customizing the chip in line with your requirements. Then you will focus on core topics such as on-board processing, sensors, GPIOs, programming, networking, integration with external components, and so on. We will also teach you how to leverage Arduino using the ESP8266 and you'll learn about its libraries, file system, OTA updates, and so on. The book also provide recipes on web servers, testing, connecting with the cloud, and troubleshooting techniques. Programming aspects include MicroPython and how to leverage it to get started with the ESP8266. Towards the end, we will use these concepts and create an interesting project (IoT). By the end of the book, readers will be proficient enough to use the ESP8266 board efficiently. Style and approach This recipe-based book will teach you to build projects using the ESP8266.  
*Components and Services for IoT Platforms* Springer  
 This book reports on research and developments in human-technology interaction. A special emphasis is given to human-computer interaction, and its implementation for a wide range of purposes such as healthcare, aerospace, telecommunication, and education, among others. The human aspects are analyzed in detail. Timely studies on human-centered design, wearable technologies, social and affective computing, augmented, virtual and mixed reality simulation, human rehabilitation and biomechanics represent the core of the book. Emerging technology applications in business, security, and infrastructure are also critically examined, thus offering a timely, scientifically-grounded, but also professionally-oriented snapshot of the current state of the field. The book is based on contributions presented at the 1st International Conference on Human Interaction and Emerging Technologies, IHET 2019, held on August 22-24, in Nice, France. It offers a timely survey and a practice-oriented reference guide to systems engineers, psychologists, sport scientists, physical therapists, as well as decision-makers, designing or dealing with the new generation of service systems. User Experience of a Social Media Based Knowledge Sharing System in Industry Work, Chapter of this book is available open access under a CC BY 4.0 license at [link.springer.com](http://link.springer.com)  
*Internet of Things From Hype to Reality* Springer Nature  
 Technologies in today's society are rapidly developing at a pace that is challenging to stay up to date with. As an increasing

number of global regions are implementing smart methods and strategies for sustainable development, they are continually searching for modern advancements within computer science, sensor networks, software engineering, and smart technologies. A compilation of research is needed that displays current applications of computing methodologies in the progression of global cities and how smart technologies are being utilized. *Sensor Network Methodologies for Smart Applications* is a collection of innovative research on the methods of intelligent systems and technologies and their various applications within sustainable development practices. While highlighting topics including machine learning, network security, and optimization algorithms, this book is ideally designed for researchers, scientists, developers, programmers, engineers, educators, policymakers, geographers, planners, and students seeking current research on smart technologies and sensor networks. [17th International Conference, Trieste, Italy, July 3-6, 2017, Proceedings, Part V](#) Notion Press

Interest in big data has swelled within the scholarly community as has increased attention to the internet of things (IoT). Algorithms are constructed in order to parse and analyze all this data to facilitate the exchange of information. However, big data has suffered from problems in connectivity, scalability, and privacy since its birth. The application of deep learning algorithms has helped process those challenges and remains a major issue in today's digital world. *Advanced Deep Learning Applications in Big Data Analytics* is a pivotal reference source that aims to develop new architecture and applications of deep learning algorithms in big data and the IoT. Highlighting a wide range of topics such as artificial intelligence, cloud computing, and neural networks, this book is ideally designed for engineers, data analysts, data scientists, IT specialists, programmers, marketers, entrepreneurs, researchers, academicians, and students.

**ESP8266 Internet of Things Cookbook** Springer  
JavaScript Robotics is on the rise. Rick Waldron, the lead author of this book and creator of the Johnny-Five platform, is at the forefront of this movement. Johnny-Five is an open source JavaScript Arduino programming framework for robotics. This book brings together fifteen innovative programmers, each creating a unique Johnny-Five robot step-by-step, and offering tips and tricks along the way. Experience with JavaScript is a prerequisite.

[Advanced Deep Learning Applications in Big Data Analytics](#) Springer Nature

This comprehensive overview of IoT systems architecture includes in-depth treatment of all key components: edge, communications, cloud, data processing, security, management, and uses. *Internet of Things: Concepts and System Design* provides a reference and foundation for students and practitioners that they can build upon to design IoT systems and to understand how the specific parts they are working on fit into and interact with the rest of the system. This is especially important since IoT is a multidisciplinary area that requires diverse skills and knowledge including: sensors, embedded systems, real-time systems, control systems, communications, protocols, Internet, cloud computing, large-scale distributed processing and storage systems, AI and ML, (preferably) coupled with domain experience in the area where it is to be applied, such as building or manufacturing automation. Written in a reader-minded approach that starts by describing the problem (why should I care?), placing it in context (what does this do and where/how does it fit in the great scheme of things?) and then describing salient features of solutions (how does it work?), this book covers the existing body of knowledge and design practices, but also offers the author's insights and articulation of common attributes and salient features of solutions such as IoT information modeling and platform characteristics.

[Healthcare and Knowledge Management for Society 5.0](#) McGraw-Hill Education

This book features high-quality papers presented at the International Conference on Computational Intelligence and Informatics (ICCI 2018), which was held on 28–29 December 2018 at the Department of Computer Science and Engineering, JNTUH College of Engineering, Hyderabad, India. The papers focus on topics such as data mining, wireless sensor networks, parallel computing, image processing, network security, MANETS, natural language processing and Internet of things.

*Internet of Things for Indoor Air Quality Monitoring* IGI Global  
This book highlights the recent research on hybrid intelligent systems and their various practical applications. It presents 58 selected papers from the 20th International Conference on Hybrid Intelligent Systems (HIS 2020) and 20 papers from the 12th World

Congress on Nature and Biologically Inspired Computing (NaBIC 2020), which was held online, from December 14 to 16, 2020. A premier conference in the field of artificial intelligence, HIS - NaBIC 2020 brought together researchers, engineers and practitioners whose work involves intelligent systems, network security and their applications in industry. Including contributions by authors from 25 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of science and engineering.

[Trends, Issues, and Innovations](#) Springer Nature

This book constitutes the proceedings of the International Conference on Internet of Things, ICIOT 2018, held in Seattle, WA, USA, in June 2018. The 13 full papers and 1 short paper presented in this volume was carefully reviewed and selected for inclusion in this book. The contributions are organized in topical sections named: Research Track – Architecture; Research Track – Smart IoT; Application and Industry Track; and Short Paper Track. They deal with research and application innovations in the internet of things services.

**Building NodeBots with Johnny-Five, Raspberry Pi, Arduino, and BeagleBone** Apress

This thesis is focusing on three little-explored contextual conditions that are important for a better understanding of digital platform ecosystems: digital platforms in a nascent stage of maturity, digital platforms built by incumbents, and digital platforms embedded in the IoT phenomenon. Thus, the thesis contributes to the question of how established companies navigating nascent digital platform ecosystems in the IoT. The work builds and contributes to the literature on digital platform ecosystems. Three main contributions are made through explorative qualitative research in the form of Delphi and case studies as well as through systematic literature research on the above-mentioned themes: First, the thesis synthesizes important knowledge about the nascent stage of digital platform ecosystems and identifies value co-creation challenges specific to this early maturity stage. Second, given the increasing importance of established companies in the platform discourse, this thesis identifies the intra- and inter-organizational challenges that incumbent organizations face in building digital platform ecosystems, emphasizing the importance of the organizational type in building a platform ecosystem. Third, the dissertation positions platforms in the IoT as a new digital platform instantiation within the scholarly platform discourse and outlines important phoneme-related characteristics that determine value creation.

**Handbook of Research on Big Data and the IoT** Springer Nature

This book provides a synthesis for using IoT for indoor air quality assessment. It will help upcoming researchers to understand the gaps in the literature while identifying the new challenges and opportunities to develop healthy living spaces. On the other hand, this book provides insights about integrating IoT with artificial intelligence to design smart buildings with enhanced air quality. Consequently, this book aims to present future scope for carrying out potential research activities in this domain. Over the past few years, the Internet of Things (IoT) is proven as the most revolutionizing invention in the field of engineering and design. This technology has wide scope in automation and real-time monitoring. Indoor air quality assessment is one of the most important applications of IoT which helps in the development of smart and healthy living spaces. Numerous methods have been developed for air quality assessment to ensure enhanced public health and well-being. The combination of sensors, microcontrollers, and communication technologies can be used to handle the massive amount of field data to access the condition of building air quality.

*Euro-Par 2018: Parallel Processing Workshops* IGI Global  
This book presents the latest research on Ambient Intelligence including software and applications. Ambient Intelligence (Aml) is a paradigm emerging from Artificial Intelligence, in which computers are used as proactive tools for assisting people with their day-to-day activities, making everyone's lives more comfortable. Another main concern of Aml originates from the human-computer interaction domain and focuses on offering ways to interact with systems in a more natural way by means of user-friendly interfaces. This field is evolving rapidly, as can be seen in emerging natural language and gesture-based types of interaction. This symposium was jointly organized by the Universidade do Minho, Technical University of Valencia, Hiroshima University, and University of Salamanca. The latest installment was held in Ávila, Spain, from 26th to 28th June 2019.

The authors wish to thank the sponsors: IEEE Systems Man and Cybernetics Society, Spain Section Chapter and the IEEE Spain Section (Technical Co-Sponsor), IBM, Indra, Viewnext, Global Exchange, AEPIA, APPIA and AIR Institute.

**IoT Protocols and Applications for Improving Industry, Environment, and Society** Springer

Internet of Things emphasizes on the efficient use of internet and wireless network for connecting devices in day to day life. It gives a step-by-step explanation of the connecting interface of hardware with software. This classic text is a vital study guide for the students to master their IoT skills. Salient Features: - Core concepts of hardware and software for Internet of Things - Coverage of latest concepts like RaspberryPi, Arduino - Coverage of Security and threats in IoT scenarios. - Step by step pro typing and designing of IoT Applications

[Proceedings of the Third International Conference on Computational Intelligence and Informatics](#) Springer

*Inorganic Pollutants in Water* provides a clear understanding of inorganic pollutants and the challenges they cause in aquatic environments. The book explores the point of source, how they enter water, the effects they have, and their eventual detection and removal. Through a series of case studies, the authors explore the success of the detection and removal techniques they have developed. Users will find this to be a single platform of information on inorganic pollutants that is ideal for researchers, engineers and technologists working in the fields of environmental science, environmental engineering and chemical engineering/ sustainability. Through this text, the authors introduce new researchers to the problem of inorganic contaminants in water, while also presenting the current state-of-the-art in terms of research and technologies to tackle this problem. Presents existing solutions to pollution problems, along with their challenges Includes case studies that detail success stories, challenges and the implementation of these tools Provides solutions that are both economically and ecologically sustainable

[Interoperability and Open-Source Solutions for the Internet of Things](#) Springer Nature

Discover how every solution in some way related to the IoT needs a platform and how to create that platform. This book is about being agile and reducing time to market without breaking the bank. It is about designing something that you can scale incrementally without having to do a lot of rework and potentially disrupting your current state of the work. So the key questions are: what does it take, how long does it take, and how much does it take to build your own IoT platform? *Build Your Own IoT Platform* answers these questions and provides you with step-by-step guidance on how to build your own IoT platform. The author bursts the bubble of IoT platforms and highlights what the core of an IoT platform looks like. There are must-haves and there are nice-to-haves; this book will distinguish the two and focus on how to build the must-haves. Building your own IoT platform is not only the biggest cost saver, but also can be a satisfying learning experience, giving you control over your project. What You Will Learn Architect an interconnected system Develop a flexible architecture Create a redundant communication platform Prioritize system requirements with a bottom-up approach Who This Book Is For IoT developers and development teams in small-to medium-sized companies. Basic to intermediate programming skills are required.

[Ambient Intelligence - Software and Applications](#) Cuvillier Verlag  
Healthcare and knowledge management is the need of the era; this book investigates various challenges faced by practitioners in this area. It also covers the work to be done in the healthcare sector and the use of different computing techniques for better insight and decision-making. *Healthcare and Knowledge Management for Society 5.0: Trends, Issues, and Innovations* showcases the benefits of computing techniques used for knowledge management in the field of healthcare in the futuristic perspective of having a human-centric society 5.0. The book includes topics related to the use of technologies like artificial intelligence, machine learning, deep learning, Internet of Things, blockchain, and sensors for effective healthcare and management. Case studies are included for easy comprehension and the book covers the most up-to-date research in the field. The use of techniques like artificial intelligence in the field of knowledge management is also discussed. This book is intended for researchers and academicians to explore new ideas, techniques, and tools. Researchers working in interdisciplinary research can also find many interesting topics which will pave the way for a new arena in healthcare and knowledge management.

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