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Open Source Robotics And Process

The company is trying to assert its lead as a supplier of processors for AI applications, announcing a host of new technologies.

Nvidia releases robot toolbox to deepen support of robot operating system (ROS)

The COVID-19 pandemic is only accelerating the expansion of Automation, Robotics, Machine Learning (ML) and Artificial

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The robotic transformation of the security industry Source Software Movement, hardware industries, whose products consist electronic or mechanical components, started to embrace an open-sour ...

Understanding the motivations for open-source hardware entrepreneurship Unlike most bots, who have been made wary by war, Ironhide can roll with the punches. He almost always plays it by the books, only letting things like his trust in Optimus' leadership bend them.

Transform And Roll Out! OfficeBots offers process automation software and services for the global small and medium-sized business (SMB) market. With its cloud-based platform and innovative RPA-as-a-Service model, businesses ...

Autokatalyst Acquires Cloud-Based Robotic Process Automation Platform OfficeBots As a result, the researchers say they were able to train the robots in less than one-hundredth the time that's normally required. Using the specialized chips also presented challenges. Nvidia's chips ...

These virtual obstacle courses help real robots learn to walk You might be surprised to learn that the LGBTQ+ community is

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advancing the auto industry – yep, queers are engineering, too. And in addition to owning ...

Stellantis' Controls and Robotics Manager Stephen Richardson on Why Being Authentic Is Key to His Success

Applications like autonomous driving and personal robotics are proving to be challenging for traditional computing architectures, but a relatively unknown, biology-inspired technology called ...

Is Neuromorphic Computing The Answer For Autonomous Driving And Personal Robotics?

This comes from Chapter 3, “The Fourth Industrial Revolution and the Intelligence Era”, focusing on the impact of the digital age on civil society, the economy and human identity. In a conversation ...

The Fourth Industrial Revolution and the Intelligence Era: What Next?

Apromore, the leading provider of enterprise-grade and open-source process mining technology, today announced a partnership with UltimateSuite, a lead ...

Apromore Joins Forces with UltimateSuite to Combine Best-of-Breed Process Mining and Task Mining Capabilities

United States OR Poland The Cybersecurity of Robotics and Autonomous Systems Market report is composed of major as well as secondary players describing their geographic footprint products and services ...

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Cybersecurity of Robotics and Autonomous Systems Market Latest Research On Industry Growth, Trends, Top Players, & Key Regions By 2027

Qualitative Analysis Of Construction Robots Market Revenue Industry Analysis By 2025 The construction robot market is expected to grow at a CAGR of approximately 13.5 during the forecast period 2020 ...

Construction Robots Market Worldwide Industry Analysis and New Opportunities Explored By 2021

NICE (Nasdaq: NICE) today announced that it has been named a Leader in Robotic Process Automation for the fourth successive year in the RPA Technology Provider Landscape of the PEAK Matrix ® ...

NICE Named a Leader in Robotic Process Automation for the Fourth Consecutive Year in Everest Group's PEAK Matrix® Assessment 2021

Smart Manufacturing Market ”report give an insightful analysis of the market development variables and drivers, ...

Smart Manufacturing Market 2021 Analysis, Manufacturing Cost Structure, Growth Opportunities, Market Drivers and Restraints to 2024

Xerox Holdings Corporation (NASDAQ: XRX) announced today that its board of directors declared a quarterly dividend of \$0.25 per share on Xerox Holdings Corporation Common Stock. The dividend is ...

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Xerox Holdings Corporation Declares Dividend on Common and Preferred Stock

Eight Business Interviews Premiering on This Week's New to The Street / Newsmax T.V. Broadcast, October 17, 2021, Showtime 10-11 AM ET </st ...

Show 250 and 12th Year Anniversary Week for New to The Street Artificial Intelligence Technology Solutions, Inc., , today announced that its wholly-owned subsidiary Robotic Assistance Devices Inc. (RAD) will be live streaming presentation and demonstration of ...

Robotic Assistance Devices to Reveal RAD 3.0 via YouTube Live Stream October 13

CaliBurger announced today that it will open its first restaurant since prior to the pandemic, the third in the Seattle market.

Shoreline WA CaliBurger Restaurant to Feature Latest from Miso Robotics and PopID

Technavio's latest research report on the Industrial Ethernet Cables Market offers insights on new product launches, the latest trends, and their impact on businesses. The industrial ethernet cables ...

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

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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!

Intelligence and autonomy are among the most extraordinary capacities blossomed by human evolution. Yet, endowing humanoid robots with these two crucial capabilities is still one of the biggest problems for the robotics community, despite decades of research. On the software side, algorithms for artificial intelligence are still at an embryonic stage. On the hardware side, robotic actuators are a far cry from the muscular human system in terms of flexibility and adaptability, which in turn reduces autonomy and robustness. Underneath the nature of algorithms for intelligence and technology for autonomy, the importance of efficient, scalable implementations of robust software goes without saying. Among the large variety of humanoid robots, the iCub has emerged as one of the most diffused research platforms. It has been developed as part of the RobotCub EU project and subsequently adopted by more than 35 laboratories worldwide. Collaborations across laboratories are encouraged by writing code and libraries openly available. As a consequence, iCub is considered to be the ideal platform for experimenting and advancing open-source software for research in several domains,

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Embedded Systems and Robotics with Open-Source Tools provides easy-to-understand and easy-to-implement guidance for rapid prototype development. Designed for readers unfamiliar with advanced computing technologies, this highly accessible book: Describes several cutting-edge open-source software and hardware technologies Examines a number of embedded computer systems and their practical applications Includes detailed projects for applying rapid prototype development skills in real time Embedded Systems and Robotics with Open-Source Tools effectively demonstrates that, with the help of high-performance microprocessors, microcontrollers, and highly optimized algorithms, one can develop smarter embedded devices.

This book highlights cutting-edge research in multidisciplinary areas of Engineering, Physics, Medicine and Healthcare presented at the 4th IRC Conference on Science, Engineering and Technology (IRC-SET 2018), which was held at the Agency for Science Technology and Research (A*STAR), Singapore. The book also contains excerpts of the speeches made by eminent personalities who attended the occasion, thereby providing a written documentation of the event.

Artificial Intelligence for Future Generation Robotics offers a vision for potential future robotics applications for AI technologies. Each chapter includes theory and mathematics to stimulate novel research directions based on the state-of-the-art in AI and smart robotics. Organized by application into ten chapters, this book offers a practical tool for researchers and engineers looking for new avenues and use-cases that combine AI with smart robotics. As we witness exponential growth in automation and the rapid advancement of underpinning technologies, such as ubiquitous computing, sensing, intelligent data processing, mobile computing and context aware

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applications, this book is an ideal resource for future innovation.

Brings AI and smart robotics into imaginative, technically-informed dialogue

Integrates fundamentals with real-world applications

Presents potential applications for AI in smart robotics by use-case

Gives detailed theory and mathematical calculations for each

application Stimulates new thinking and research in applying AI to robotics

Focuses on the concept of open source prototyping and product development and designing sensor networks and covers IoT base applications This book will serves as a single source of introductory material and reference for programming smart computing and Internet of Things (IoT) devices using Arduino with the use of Python It covers number of comprehensive DIY experiments through which the reader can design various intelligent systems

This Robotics Process Automation book describes the RPA platform for the future of business process automation. More precisely this RPA book has tried to innumerate the followings: 1. RPA that brings speed to your digital transformation. 2. RPA helps to get rid of resource burden and it's consequences. 3. This emphasizes Business process automation must be in the hands forntline. 4. Only Automation Anywhere Enterprise combines consumer-like usability with enterprise-class reliability, and security for RPA that empowers the workforce to automate on their own, in real time. 5. What does RPA mean for business? Optimize labour investment Increase capacity on demand Increase speed and productivity Maximize availability Improve business process compliance Improve controls Improve auditability Enhance security deliver business intelligence Enable digital transformation Improve employee morale 6. Putting RPA to work and deploy your digital workforce in your businesses like insurance, finance, manufacturing and health care and also other. Deploy, manage and audit your Digital Workforce through a highly-intuitive RPA central command

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center, on-premise or in the cloud. This RPA book also enable you to learn more about AI and machine language also factory automation, safeguard your data, analyze and predict business performance, streamline your blended anywhere, big data ready for analytics. This book is made for BS/B,TECH and MS/M.TECH/MCA/MBA student who will have in-depth knowledge about RPA and its associated technologies falls in the same platform.

This book presents a comprehensive overview of the human dimension of social robots by discussing both transnational features and national peculiarities. Addressing several issues that explore the human side of social robots, this book investigates what a social robot is and how we might come to think about social robots in the different areas of everyday life. Organized around three sections that deal with Perceptions and Attitudes to Social Robots, Human Interaction with Social Robots, and Social Robots in Everyday Life, it explores the idea that even if the challenges of robot technologies can be overcome from a technological perspective, the question remains as to what kind of machine we want to have and use in our daily lives. Lessons learned from previous widely adopted technologies, such as smartphones, indicate that robot technologies could potentially be absorbed into the everyday lives of humans in such a way that it is the human that determines the human-machine interaction. In a similar way to how today's information and communication technologies were initially designed for professional/industrial use, but were soon commercialized for the mass market and then personalized by humans in the course of daily practice, the use of social robots is now facing the same revolution of 'domestication.' In the context of this transformation, which involves the profound embedding of robots in everyday life, the 'human' aspect of social robots will play a major part. This book sheds new light on this highly topical issue, one of the central subjects that will be taught and studied at universities worldwide

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and that will be discussed widely, publicly and repeatedly in the near future.

This book features high-quality research papers presented at the International Conference on Applications and Techniques in Cyber Security and Digital Forensics (ICCSDF 2021), held at The NorthCap University, Gurugram, Haryana, India, during April 3–4, 2021. This book discusses the topics ranging from information security to cryptography, mobile application attacks to digital forensics, and from cyber security to blockchain. The goal of the book is to provide 360-degree view of cybersecurity to the readers which include cyber security issues, threats, vulnerabilities, novel idea, latest technique and technology, and mitigation of threats and attacks along with demonstration of practical applications. This book also highlights the latest development, challenges, methodologies as well as other emerging areas in this field. It brings current understanding of common Web vulnerabilities while maintaining awareness and knowledge of contemporary standards, practices, procedures, and methods of Open Web Application Security Project. It also expounds how to recover information after a cybercrime.

This book presents the proceedings of two conferences, the 37th and 38th in the WoTUG series; Communicating Process Architectures (CPA) 2015, held in Canterbury, England, in August 2015, and CPA 2016, held in Copenhagen, Denmark, in August 2016. Fifteen papers were accepted for presentation at the 2015 conference. They cover a spectrum of concurrency concerns: mathematical theory, programming languages, design and support tools, verification, multicore infrastructure and applications ranging from supercomputing to embedded. Three workshops and two evening fringe sessions also formed part of the conference, and the workshop position papers and fringe abstracts are included in this book. Fourteen papers covering the same broad spectrum of topics

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were presented at the 2016 conference, one of them in the form of a workshop. They are all included here, together with abstracts of the five fringe sessions from the conference.

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