

Bluetooth Audio Module Command Reference User S Guide

HEAVY DUTY TRUCK SYSTEMS, 5th EDITION is a best-selling introduction to servicing medium-and heavy-duty trucks, providing a strong foundation of content on Electricity and Electronics, Power Train, Steering and Suspension, Brakes, and Accessories Systems. The fifth edition has been updated throughout including an introduction to Eaton DM clutches and comprehensive coverage of Caterpillar's new highway vocational transmission, updates of electricity and electronics to cover new battery technology, and coverage of new FMVSS 121 (2009) stopping distance for semi-combinations. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The quick way to learn Windows 10 This is learning made easy. Get more done quickly with Windows 10. Jump in wherever you need answers--brisk lessons and colorful screenshots show you exactly what to do, step by step. Discover fun and functional Windows 10 features! Work with the new, improved Start menu and Start screen Learn about different sign-in methods Put the Cortana personal assistant to work for you Manage your online reading list and annotate articles with the new browser, Microsoft Edge Help safeguard your computer, your information, and your privacy Manage connections to networks, devices, and storage resources Offers tips, techniques, and tools to help readers take

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advantage of Mac OS X, covering topics including user accounts, working with audio and video, running a mail server, and networking with Windows desktops.

This book constitutes the refereed proceedings of the 15th International Conference on Mobile Web and Intelligent Information Systems, MobiWIS 2018, held in Barcelona, Spain, in August 2018. The 15 full papers together with 2 short papers presented in this volume were carefully reviewed and selected from 50 submissions. The papers of the MobiWIS 2018 deal with areas such as: mobile web and apps, wireless sensor networks, web services, cloud services, web applications, and various web technologies.

Congratulations on purchasing the ODROID-XU4! It is one of the most powerful low-cost Single Board computers available, as well as being an extremely versatile device. Featuring an octa-core Exynos 5422 big.LITTLE processor, advanced Mali GPU, and Gigabit ethernet, it can function as a home theater set-top box, a general purpose computer for web browsing, gaming and socializing, a compact tool for college or office work, a prototyping device for hardware tinkering, a controller for home automation, a workstation for software development, and much more. Some of the modern operating systems that run on the ODROID-XU4 are Ubuntu, Android, Fedora, ARCHLinux, Debian, and OpenELEC, with thousands of free open-source software packages available. The ODROID-XU4 is an ARM device, which is the most widely used architecture for mobile devices and embedded 32-bit computing.

This book, divided in two volumes, originates from

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Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as sensor and ICT based technologies for the betterment of people, Technologies for agriculture and healthcare, micro and nano technological applications. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Bluetooth wireless technology is on the verge of revolutionizing communications, enabling virtually any communications device to transmit voice or data securely, at high speed -- without wires! It's no wonder everyone's talking about Bluetooth -- and now there's a complete, professional's guide to this remarkable technology. In Bluetooth: Connect Without Cables, two leading Bluetooth implementers explain the Bluetooth standard more clearly than it's ever been explained before -- and place Bluetooth in context, covering global

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markets, applications, complementary technologies, development issues, and more. Begin by understanding Bluetooth's origins and goals. Review the components of a Bluetooth system, how Bluetooth connections work, differences in Bluetooth's support for voice and data; security/management issues; key concepts such as piconets and scatternets; and system qualification. The book covers the Bluetooth protocol stack in depth, including module layers, host layers, and cross-layer functions. The authors conclude by placing Bluetooth in context: introducing complementary technologies, reviewing real-world implementation and development issues, analyzing the markets for Bluetooth technology, and previewing the future of Bluetooth.

In distributed, open systems like cyberspace, where the behavior of autonomous agents is uncertain and can affect other agents' welfare, trust management is used to allow agents to determine what to expect about the behavior of other agents. The role of trust management is to maximize trust between the parties and thereby provide a basis for cooperation to develop. Bringing together expertise from technology-oriented sciences, law, philosophy, and social sciences, *Managing Trust in Cyberspace* addresses fundamental issues underpinning computational trust models and covers trust management processes for dynamic open systems and applications in a tutorial style that aids in understanding. Topics include trust in autonomic and self-organized networks, cloud computing, embedded computing, multi-agent systems, digital rights management, security and quality issues in trusting e-government service delivery,

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and context-aware e-commerce applications. The book also presents a walk-through of online identity management and examines using trust and argumentation in recommender systems. It concludes with a comprehensive survey of anti-forensics for network security and a review of password security and protection. Researchers and practitioners in fields such as distributed computing, Internet technologies, networked systems, information systems, human computer interaction, human behavior modeling, and intelligent informatics especially benefit from a discussion of future trust management research directions including pervasive and ubiquitous computing, wireless ad-hoc and sensor networks, cloud computing, social networks, e-services, P2P networks, near-field communications (NFC), electronic knowledge management, and nano-communication networks. Provides information on the installation, use, and administration of Suse Linux 10.

In-depth instruction and practical techniques for building with the BeagleBone embedded Linux platform Exploring BeagleBone is a hands-on guide to bringing gadgets, gizmos, and robots to life using the popular BeagleBone embedded Linux platform.

Comprehensive content and deep detail provide more than just a BeagleBone instruction manual—you'll also learn the underlying engineering techniques that will allow you to create your own projects. The book begins with a foundational primer on essential skills, and then gradually moves into communication, control, and advanced applications using C/C++, allowing you to learn

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at your own pace. In addition, the book's companion website features instructional videos, source code, discussion forums, and more, to ensure that you have everything you need. The BeagleBone's small size, high performance, low cost, and extreme adaptability have made it a favorite development platform, and the Linux software base allows for complex yet flexible functionality. The BeagleBone has applications in smart buildings, robot control, environmental sensing, to name a few; and, expansion boards and peripherals dramatically increase the possibilities. Exploring BeagleBone provides a reader-friendly guide to the device, including a crash course in computer engineering. While following step by step, you can: Get up to speed on embedded Linux, electronics, and programming Master interfacing electronic circuits, buses and modules, with practical examples Explore the Internet-connected BeagleBone and the BeagleBone with a display Apply the BeagleBone to sensing applications, including video and sound Explore the BeagleBone's Programmable Real-Time Controllers Hands-on learning helps ensure that your new skills stay with you, allowing you to design with electronics, modules, or peripherals even beyond the BeagleBone. Insightful guidance and online peer support help you transition from beginner to expert as you master the techniques presented in Exploring BeagleBone, the practical handbook for the popular computing platform.

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and

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technology are the driving forces that will help make it better.

This module discusses the network services and architectures in the Internet World. topics include network architectures, network connectivity, IP-based networks, broadband networks, wireless networks, and Next Generation Internet.

This document provides info. to organizations on the security capabilities of Bluetooth and provide recommendations to organizations employing Bluetooth technologies on securing them effectively. It discusses Bluetooth technologies and security capabilities in technical detail. This document assumes that the readers have at least some operating system, wireless networking, and security knowledge. Because of the constantly changing nature of the wireless security industry and the threats and vulnerabilities to the technologies, readers are strongly encouraged to take advantage of other resources (including those listed in this document) for more current and detailed information. Illustrations.

The authoritative, in-depth guide to the new Bluetooth 1.1 specification Bluetooth 1.1's dramatic improvements in interoperability and reliability Includes thoroughly revised coverage of Bluetooth security and power conservation New Bluetooth profiles—including the long-awaited Personal Area Networking profile! The first complete guide to the new Bluetooth 1.1 wireless specification! The Bluetooth specification has been updated to deliver dramatic improvements in both reliability and interoperability. Bluetooth 1.1: Connect

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Without Cables, Second Edition updates the industry's #1 Bluetooth guide to cover these critical new enhancements—and to offer detailed guidance on every aspect of Bluetooth 1.1 development. Bluetooth SIG committee members Jennifer Bray and Charles Sturman place Bluetooth 1.1 in context, covering markets, applications, complementary technologies, key development issues, and explaining every goal of the new release. They review the components of a Bluetooth system, explain how Bluetooth connections work, introduce essential concepts such as piconets and scatternets, and cover the Bluetooth protocol stack in detail from top to bottom. Interoperability between 1.0b and 1.1 Details of 1.1 improvements with explanations of the reasons behind each change Important changes to Bluetooth low-power modes, encryption, and authentication Bridging Ethernet and Bluetooth with Bluetooth Network Encapsulation Protocol How to use Universal Plug and Play with the Bluetooth protocol stack Profiles which will bring new products including: Human Interface Devices, Hands-Free Phone usage, Basic Printing, Basic Imaging, and Hard Copy Cable Replacement Technologies used by Bluetooth: OBEX, WAP, GSM TS07.10, UPnP, Q.931, and UUIDs Comparison of related technologies: DECT, IrDA, Home RF, HiperLAN, and 802.11 Whether you're experienced with V.1.0 or working with Bluetooth for the first time, Bluetooth 1.1: Connect Without Cables, Second Edition is your definitive resource for building interoperable, reliable wireless applications—right now!

Modern cars are more computerized than ever. Infotainment

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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.

Learn to maximize the use of mobile devices, make the most of online tools for collaboration and communication, and fully utilize the web and cloud with the latest edition of DISCOVERING COMPUTERS 2018. Clearly see how technology skills can assist in both gaining employment and advancing a career. This edition highlights web development, how to create a strong web presence, and take full advantage of the latest Windows 10. Content addresses today's most

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timely issues with coverage of contemporary technology developments and interesting in-text discussions. The authors provide helpful suggestions within a proven learning structure and offer meaning practice to reinforce skills. Self-assessments open each module and equip readers to focus study efforts and master more skills in less time.

DISCOVERING COMPUTERS presents the key content needed for success using an approach that ensures understanding. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Get your slice of Raspberry Pi With the invention of the unique credit card-sized single-board computer comes a new wave of hardware geeks, hackers, and hobbyists who are excited about the possibilities with the Raspberry Pi—and this is the perfect guide to get you started. With this down-to-earth book, you'll quickly discover why the Raspberry Pi is in high demand! There's a reason the Raspberry Pi sold a million units in its first year, and you're about to find out why! In Raspberry Pi For Dummies, 3rd Edition veteran tech authors Sean McManus and Mike Cook make it easier than ever to get you up and running on your Raspberry Pi, from setting it up, downloading the operating system, and using the desktop environment to editing photos, playing music and videos, and programming with Scratch—and everything in between. Covers connecting the Pi to other devices such as a keyboard, mouse, monitor, and more Teaches you basic Linux System Admin Explores creating simple hardware projects Shows you how to create web pages Raspberry Pi For Dummies, 3rd Edition makes computing as easy as pie! This is a guide to Bluetooth for practitioners seeking an accessible introduction to Bluetooth technology written by two major contributors to the Bluetooth specification.

Virtual, hands-on learning labs allow you to apply your

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technical skills using live hardware and software hosted in the cloud. So Sybex has bundled CompTIA Linux+ labs from Practice Labs, the IT Competency Hub, with our popular CompTIA Linux+ Study Guide, Fourth Edition. Working in these labs gives you the same experience you need to prepare for the CompTIA Linux+ Exam XK0-004 that you would face in a real-life setting. Used in addition to the book, the labs are a proven way to prepare for the certification and for work in the IT and cybersecurity fields where Linux is fundamental to modern systems and security. This is your one-stop resource for complete coverage of Exam XK0-004, covering 100% of all exam objectives. You'll prepare for the exam smarter and faster with Sybex thanks to superior content including, assessment tests that check exam readiness, objective map, real-world scenarios, hands-on exercises, key topic exam essentials, and challenging chapter review questions. Linux is viewed by many organizations and companies as an excellent, low-cost, secure alternative to expensive OSs, such as Microsoft Windows and is crucial to today's server and cloud infrastructure. The CompTIA Linux+ exam tests a candidate's understanding and familiarity with the Linux. As the Linux server market share continues to grow, so too does demand for qualified and certified Linux administrators. Building on the popular Sybex Study Guide approach, this book will provide 100% coverage of the NEW Linux+ Exam XK0-004 objectives. The book contains clear and concise information on all Linux administration topic, and includes practical examples and insights drawn from real-world experience. Hardware and System Configuration Systems Operation and Maintenance Security Linux Troubleshooting and Diagnostics Automation and Scripting You'll also have access to an online test bank, including a bonus practice exam, electronic flashcards, and a searchable PDF of key terms. And with this edition you also get Practice

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Labs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months unlimited access to Practice Labs CompTIA Linux+ Exam Exam XK0-004 Labs with 65 unique lab modules to practice your skills.

Beginning Fedora: From Novice to Professional guides you through the tasks most new Linux users desire to perform while explaining potentially confusing concepts along the way. It provides an illustrated, step-by-step guide to Fedora installation and hardware configuration. You'll also learn how to install it alongside Windows, allowing you to switch between the operating systems at will. The book eases the transition from the Windows to the Linux desktop by focusing on key everyday tasks such as file management, peripheral configuration, MP3/video playback, and office tasks.

This first-of-its-kind book, from expert authors actively contributing to the evolution of Bluetooth specifications, provides an overview and detailed descriptions of all the security functions and features of this standard's latest core release. After categorizing all the security issues involved in ad hoc networking, this hands-on volume shows you how to design a highly secure Bluetooth system and implement security enhancements. The book also helps you fully understand the main security risks involved with introducing Bluetooth-based communications in your organization

A comparative introduction to major global wireless standards, technologies and their applications From GSM to LTE-Advanced Pro and 5G: An Introduction to Mobile Networks and Mobile Broadband, 3rd Edition provides technical descriptions of the various wireless technologies currently in use. It explains the rationales behind their differing mechanisms and implementations while exploring the advantages and limitations of each

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technology. This edition has been fully updated and substantially expanded to reflect the significant evolution in mobile network technology occurring over the past several years. The chapter on LTE has been extensively enhanced with new coverage of current implementations of LTE carrier aggregation, mobility management, cell reselection and handover procedures, as well as the latest developments in 5G radio and core networks in 3GPP. It now features additional information on the TD-LTE air interface, IPv6 in mobile networks, Network Function Virtualization (NFV) and Narrowband Internet of Things (NB-IOT). Voice-over-LTE (VoLTE) is now treated extensively in a separate chapter featuring coverage of the VoLTE call establishment process, dedicated bearer setup, header compression, speech codec and bandwidth negotiation, supplementary service configuration and VoLTE emergency calls. In addition, extensive coverage of Voice-over-Wifi and mission critical communication for public safety organizations over LTE has been added. The WLAN chapter now provides coverage of WPA2-Professional with certificates for authentication in large deployments, such as the global Eduroam network and the new WLAN 60 GHz air interface. Bluetooth evolution has been addressed by including a detailed description of Bluetooth Low Energy (BLE) in the chapter devoted to Bluetooth. Describes the different systems based on the standards, their practical implementation and design assumptions, and the performance and capacity of each system in practice is analyzed and explained Questions at the end of each chapter and answers on the

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accompanying website make this book ideal for self-study or as course material.

Discover which ARTIK modules to use for various applications, and how to produce code for them. This book goes beyond the information previously available online, efficiently guiding developers from initial setup of their development environment to product development and prototyping in no time. Beginners will find helpful background insights into foundation technology and useful reference information is included for more advanced developers. Samsung's announcement of the new ARTIK modules for IoT has generated tremendous interest in the developer market for wearable and other consumer or industrial devices. This book provides the perfect tutorial-based introduction to the ARTIK family of "Systems on Modules," which integrate powerful microprocessors, memory, wireless connectivity, and enhanced security on to very small form factor boards. With Beginning Samsung ARTIK as your guide, take the next steps to creating great solutions with an ARTIK.

What You'll Learn

- Use terminal emulators to access the command line and talk to the device
- Establish Wi-Fi connectivity with a wireless network
- Upgrade the operating system and install additional software
- Bring up Eclipse IDE and create a cross-compiler toolchain on Mac OS X
- Cross-compile for the ARM processors in the ARTIK modules using Arduino IDE with libArduino to C
- Use C to access the ARTIK hardware via a file based API
- Use Node.js and Python inside the ARTIK module
- Integrate applications with the Samsung SAMI data aggregation hub
- Use Temboo to generate IoT software

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solutions that can be downloaded and compiled natively inside the ARTIK Debug applications with software and hardware probes Who This Book Is For Moderately experienced developers wanting to understand ARTIK and how to interact with it from within their own apps or web services.

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The Intel Edison is a crowning achievement of Intel's adaptation of its technology into maker-friendly products. They've packed the dual-core power of the Atom CPU, combined it with a sideboard microcontroller brain, and added in Wi-Fi, Bluetooth Low Energy, and a generous amount of RAM (1GB) and flash storage (4GB). This book, written by Stephanie Moyerman, a research scientist with Intel's Smart Device Innovation Team, teaches you everything you need to know to get started making things with Edison, the compact and powerful Internet of Things platform. Projects and tutorials include: Controlling devices over Bluetooth Using Python and Arduino programming environments on Edison Tracking objects with a webcam and OpenCV Responding to voice commands and talking back Using and configuring Linux on Edison

This book provides an introduction to Bluetooth programming, with a specific focus on developing real code. The authors discuss the major concepts and techniques involved in Bluetooth programming, with special emphasis on how they relate to other networking technologies. They provide specific descriptions and examples for creating applications in a number of

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programming languages and environments including Python, C, Java, GNU/Linux, Windows XP, Symbian Series 60, and Mac OS X. No previous experience with Bluetooth is assumed, and the material is suitable for anyone with some programming background. The authors place special emphasis on the essential concepts and techniques of Bluetooth programming, starting simply and allowing the reader to quickly master the basic concepts before addressing advanced features.

An authoritative reference on all aspects of audio engineering and technology including basic mathematics and formulae, acoustics and psychoacoustics, microphones, loudspeakers and studio installations. Compiled by an international team of experts, the second edition was updated to keep abreast of fast-moving areas such as digital audio and transmission technology. Much of the material has been revised, updated and expanded to cover the very latest techniques. This is a new paperback version.

Present the computer concepts and Microsoft Office 2013 skills perfect for your Introduction to Computing course with the latest ENHANCED COMPUTER CONCEPTS AND MICROSOFT OFFICE 2013 ILLUSTRATED. This all-in-one book makes the computer concepts and skills your students need to know easily accessible. Key application skills are clearly demonstrated using the user-friendly two-page spread found in the popular Microsoft Office 2013 Illustrated Introductory, First Course. Today's most up-to-date technology developments and concepts are clarified

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using the distinctive step-by-step approach from the Computer Concepts Illustrated Brief book. This edition highlights updated Office 365 content with Integrated Applications Projects and a Student Success Guide. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

These proceedings present selected research papers from CISC'18, held in Wenzhou, China. The topics include Multi-Agent Systems, Networked Control Systems, Intelligent Robots, Complex System Theory and Swarm Behavior, Event-Triggered Control and Data-Driven Control, Robust and Adaptive Control, Big Data and Brain Science, Process Control, Nonlinear and Variable Structure Control, Intelligent Sensor and Detection Technology, Deep learning and Learning Control Guidance, Navigation and Control of Flight Vehicles, and so on. Engineers and researchers from academia, industry, and government can get an insight view of the solutions combining ideas from multiple disciplines in the field of intelligent systems.

The bestselling study guide completely updated for the NEW CompTIA Linux+ Exam XK0-004 This is your one-stop resource for complete coverage of Exam XK0-004, covering 100% of all exam objectives. You'll prepare for the exam smarter and faster with Sybex thanks to superior content including, assessment tests that check exam readiness, objective map, real-world scenarios, hands-on exercises, key topic exam essentials, and challenging chapter review questions. Linux is a UNIX-based operating system originally created by Linus

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Torvalds with the help of developers around the world. Developed under the GNU General Public License, the source code is free. Because of this Linux is viewed by many organizations and companies as an excellent, low-cost, secure alternative to expensive OSs, such as Microsoft Windows. The CompTIA Linux+ exam tests a candidate's understanding and familiarity with the Linux Kernel. As the Linux server market share continues to grow, so too does demand for qualified and certified Linux administrators. Building on the popular Sybex Study Guide approach, this book will provide 100% coverage of the NEW Linux+ Exam XK0-004 objectives. The book contains clear and concise information on all Linux administration topic, and includes practical examples and insights drawn from real-world experience. Hardware and System Configuration Systems Operation and Maintenance Security Linux Troubleshooting and Diagnostics Automation and Scripting You'll also have access to an online test bank, including a bonus practice exam, electronic flashcards, and a searchable PDF of key terms.

This book constitutes the refereed proceedings of the three confederated conferences CoopIS 2002, DOA 2002, and ODBASE 2002, held in Irvine, CA, USA, in October/November 2002. The 77 revised full papers and 10 posters presented were carefully reviewed and selected from a total of 291 submissions. The papers are organized in topical sections on interoperability, workflow, mobility, agents, peer-to-peer and ubiquitous, work process, business and transaction, infrastructure, query processing, quality issues, agents and

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middleware, cooperative systems, ORB enhancements, Web services, distributed object scalability and heterogeneity, dependability and security, reflection and reconfiguration, real-time scheduling, component-based applications, ontology languages, conceptual modeling, ontology management, ontology development and engineering, XML and data integration, and tools for the intelligent Web.

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