

Core I9 Extreme Edition Processor

This two-volume set LNCS 11569 and 11570 constitutes the refereed proceedings of the Thematic Area on Human Interface and the Management of Information, HIMI 2019, held as part of HCI International 2019 in Orlando, FL, USA. HCII 2019 received a total of 5029 submissions, of which 1275 papers and 209 posters were accepted for publication after a careful reviewing process. The 91 papers presented in the two volumes were organized in topical sections named: Visual information; Data visualization and analytics; Information, cognition and learning; Information, empathy and persuasion; Knowledge management and sharing; Haptic and tactile interaction; Information in virtual and augmented reality; Machine learning and intelligent systems; Human motion and expression recognition and tracking; Medicine, healthcare and quality of life applications.

This book provides the state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of the future research. The fifth 2020 Future Technologies Conference was organized virtually and received a total of 590 submissions from academic pioneering researchers, scientists, industrial engineers, and students from all over the world. The submitted papers covered a wide range of important topics including but not limited to computing, electronics, artificial intelligence, robotics, security and communications and their applications to the real world. After a double-blind peer review process, 210 submissions (including 6 poster papers) have been selected to be included in these proceedings. One of the meaningful and valuable dimensions of this conference is the way it brings together a large group of technology geniuses in one venue to not only present breakthrough research in future technologies, but also to promote discussions and debate of relevant issues, challenges, opportunities and research findings. The authors hope that readers find the book interesting, exciting and inspiring.

Discover the path to the big leagues It's time to prove all those people who said "video games are a waste of time" wrong. Esports has rewarded top gamers with prize money, glory, and even college scholarships. Want to get in on the action? This book puts you on the path to get your share of the growing world of esports. It helps you figure out the gear you need to be competitive, the games that drive esports, how to break into competitive play, and how to use online platforms to get attention. Written by the esports program director at the first Division I university to field an esports team, this book defines and demystifies the complex world of competitive video gaming. Get the gear for your first esports battles Gain recognition for your skills online or in tournaments Discover the path to earning scholarships in esports Build your online identity Get the insider tips you need to make your name in the esports universe.

Learn how to drive the coolest laptop on the planet You took the plunge, paid extra, and—even though it looks and feels like perfection—have that fleeting doubt: is my MacBook really worth the investment? You'll be pleased to know that the answer is totally yes, and MacBook For Dummies is the ultimate way to learn the thousand and one reasons why the MacBook Pro or Air you now own is a modern masterpiece—as well as the ten thousand and one (and counting) things you can do with it. With its super-smooth performance, top-shelf LED screen, rugged reliability, and powerful, trouble-free operating system, you're going to have a lot of fun. Keeping jargon to a minimum, Mark L.

Chambers—prolific tech author and all-round Mac whiz—gives you a friendly, step-by-step welcome to everything MacBook, from reviewing the hardware and powering up for the first time to getting familiar with files, security settings, launching apps, and entering the digital netherworld of iCloud. Then, with the basics reassuringly in place, you can begin your journey to power-user mastery in whatever areas of MacBook-ing you're most interested in, from doing the accounts in Numbers to perfecting that soon-to-be-released cinematic classic (with original score) using iMovie and GarageBand. Get familiar with the latest macOS, Big Sur Communicate with Messages and FaceTime Stream music, movies, and TV shows Manage and edit photos and video clips Whether you're a PC convert, Mac veteran, or completely new to the astonishing potential of the MacBook world, you'll find everything you need to get the most out of the technical marvel that's now at your command.

The definitive Sybex guide to A+ certification, fully updated for the latest exams The CompTIA A+ Complete Study Guide, Fourth Edition is your ultimate preparation guide for Exams 220-1001 and 220-1002. Covering 100 percent of the objectives for both exams, this book gets you up to speed on essential A+ knowledge and skills. Master the critical competencies associated with hardware and software, system maintenance, troubleshooting, connectivity, and more—with practical examples drawn from real-world experience, you'll develop the skill set employers demand in today's IT environment. End-of-chapter reviews help you gauge your progress and stay on track for success, while exam highlights give you a sneak preview of what to expect on the big day. You also get access to the Sybex online test bank, featuring electronic flashcards, a searchable glossary, and 4 practice exams to help you study from anywhere, any time—track your progress and test your understanding with interactive study tools. CompTIA A+ certification is the industry-leading standard for IT professionals. Hundreds of companies require their computer technicians to hold this valuable credential. Now in its fourth edition, this revised and updated study guide includes expanded coverage of virtualization and cloud computing, mobile hardware installation, network security, and more, to reflect the latest changes in the A+ exam. Providing all the information you need to earn your A+ certification, this invaluable resource will help you: Master the basics of hardware, software, and peripherals Understand and troubleshoot network connectivity issues Install and configure Windows, iOS, Android, Apple OSX, and Linux operating systems The CompTIA A+ Complete Study Guide, Fourth Edition arms you with the tools and knowledge necessary to take your skills to the next level. Whether a first-time candidate or IT professional in need of recertification, this essential study guide will help you prepare, practice, and pass with minimal burden and maximum results.

High-performance computing (HPC) has become an essential tool in the modern world. However, systems frequently run well below theoretical peak performance, with only 5% being reached in many cases. In addition, costly components often remain idle when not required for specific programs, as parts of the HPC systems are reserved and used exclusively for applications. A project was started in 2013, funded by the German Ministry of Education and Research (BMBF), to find ways of improving system utilization by compromising on dedicated reservations for HPC codes and applying co-scheduling of applications instead. The need was recognized for international discussion to find the best solutions to this HPC utilization issue, and a workshop on co-scheduling in HPC, open to international participants – the COSH workshop – was held for the first time at the European HiPEAC conference, in Prague, Czech Republic, in January 2016. This book presents extended versions of papers submitted to the workshop, reviewed for the second time to ensure scientific quality. It also includes an introduction to the main challenges of co-scheduling and a foreword by Arndt Bode, head of LRZ, one of Europe's leading computer centers, as well as a chapter corresponding to the invited keynote speech by Intel, whose recent extensions to their processors allow for better control of co-scheduling.

Whether you're a software engineer aspiring to enter the world of deep learning, a veteran data scientist, or a hobbyist with a simple dream of making the next viral AI app, you might have wondered where to begin. This step-by-step guide teaches you how to build practical deep learning applications for the cloud, mobile, browsers, and edge devices using a hands-on approach. Relying on years of industry experience transforming deep learning research into award-winning applications, Anirudh Koul, Siddha Ganju, and Meher Kasam guide you through the process of converting an idea into something that people in the real world can use. Train, tune, and deploy computer vision models with Keras, TensorFlow, Core ML, and TensorFlow Lite Develop AI for a range of devices including Raspberry Pi, Jetson Nano, and Google Coral Explore fun projects, from Silicon Valley's Not Hotdog app to 40+ industry case studies Simulate an autonomous car in a video game environment and build a miniature version with reinforcement learning Use transfer learning to train models in minutes Discover 50+ practical tips for maximizing model accuracy and speed, debugging, and scaling to millions of users

The multi-volume set LNAI 12975 until 12979 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases, ECML PKDD 2021, which was held during September 13-17, 2021. The conference was originally planned to take place in Bilbao, Spain, but changed to an online event due to the COVID-19 pandemic. The 210 full papers presented in these proceedings were carefully reviewed and selected from a total of 869 submissions. The volumes are organized in topical sections as follows: Research Track: Part I: Online learning; reinforcement learning; time series, streams, and sequence models; transfer and multi-task learning; semi-supervised and few-shot learning; learning algorithms and applications. Part II: Generative models; algorithms and learning theory; graphs and networks; interpretation, explainability, transparency, safety. Part III: Generative models; search and optimization; supervised learning; text mining and natural language processing; image processing, computer vision and visual analytics. Applied Data Science Track: Part IV: Anomaly detection and malware; spatio-temporal data; e-commerce and finance; healthcare and medical applications (including Covid); mobility and transportation. Part V: Automating machine learning, optimization, and feature engineering; machine learning based simulations and knowledge discovery; recommender systems and behavior modeling; natural language processing; remote sensing, image and video processing; social media.

This book constitutes the proceedings of the Sixth Conference on Information and Communication Technologies "TIC.EC", held in Cuenca, Ecuador, from November 27 to 29, 2019. Considered one of the most important conferences on ICT in Ecuador, it brings together scholars and practitioners from the country and abroad to discuss the development, issues and projections of the use of information and communication technologies in multiples fields of application. The 2019 "TIC.EC" conference was organized by Universidad del Azuay (UDA) and its Engineering School, as well as the Ecuadorian Corporation for the Development of Research and Academia (CEDIA). The book covers the following topics: · Software engineering · Security · Data · Networks · Architecture · Applied ICTs · Technological entrepreneurship · Links between research and industry · High-impact innovation · Knowledge management and intellectual property PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

Nursing Informatics and the Foundation of Knowledge, Fifth Edition is a foundational text for teaching nursing students the core concepts of knowledge management while providing an understanding of the current technological tools and resources available.

Over the past years, businesses have had to tackle the issues caused by numerous forces from political, technological and societal environment. The changes in the global market and increasing uncertainty require us to focus on disruptive innovations and to investigate this phenomenon from different perspectives. The benefits of innovations are related to lower costs, improved efficiency, reduced risk, and better response to the customers' needs due to new products, services or processes. On the other hand, new business models expose various risks, such as cyber risks, operational risks, regulatory risks, and others. Therefore, we believe that the entrepreneurial behavior and global mindset of decision-makers significantly contribute to the development of innovations, which benefit by closing the prevailing gap between developed and developing countries. Thus, this Special Issue contributes to closing the research gap in the literature by providing a platform for a scientific debate on innovation, internationalization and entrepreneurship, which would facilitate improving the resilience of businesses to future disruptions. Order Your Print Copy

Artificial neural networks (ANNs) and evolutionary computation methods have been successfully applied in remote sensing applications since they offer unique advantages for the analysis of remotely-sensed images. ANNs are effective in finding underlying relationships and structures within multidimensional datasets. Thanks to new sensors, we have images with more spectral bands at higher spatial resolutions, which clearly recall big data problems. For this purpose, evolutionary algorithms become the best solution for analysis. This book includes eleven high-quality papers, selected after a careful reviewing process, addressing current remote sensing problems. In the chapters of the book, superstructural optimization was suggested for the optimal design of feedforward neural networks, CNN networks were deployed for a nanosatellite payload to select images eligible for transmission to ground, a new weight feature value convolutional neural network (WFCNN) was applied for fine remote sensing image segmentation and extracting improved land-use information, mask regional-convolutional neural networks (Mask R-CNN) was employed for extracting valley fill faces, state-of-the-art convolutional neural network (CNN)-based object detection models were applied to automatically detect airplanes and ships in VHR satellite images, a coarse-to-fine detection strategy was employed to detect ships at different sizes, and a deep quadruplet network (DQN) was proposed for hyperspectral image classification.

PC Mag

Maximum PC is the magazine that every computer fanatic, PC gamer or content creator must read. Each and every issue is packed with punishing product reviews, insightful and innovative how-to stories and the illuminating technical articles that enthusiasts crave.

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

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