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World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany World Scientific
The exploration of the subnuclear world is done through increasingly complex experiments covering a wide range of energies and in a large variety of environments — from particle accelerators and underground detectors to satellites and space laboratories. For these research programs to succeed, novel techniques, new materials and new instrumentation need to be used in detectors, often on a large scale. Hence, particle physics is at the forefront of technological advancement and leads to numerous applications. Among these, medical applications have a particular importance due to the health and social benefits they bring. This volume reviews the advances made in all technological aspects of current experiments in the field.
Advances in Multimedia Information Processing – PCM 2017 Springer Science & Business Media
Getting mixed signals in your signals and systems course? The concepts covered in a typical signals and systems course are often considered by engineering students to be some of the most difficult to master. Thankfully, Signals & Systems For Dummies is your intuitive guide to this tricky course, walking you step-by-step through some of the more complex theories and mathematical formulas in a way that is easy to understand. From Laplace Transforms to Fourier Analyses,

Signals & Systems For Dummies explains in plain English the difficult concepts that can trip you up. Perfect as a study aid or to complement your classroom texts, this friendly, hands-on guide makes it easy to figure out the fundamentals of signal and system analysis. Serves as a useful tool for electrical and computer engineering students looking to grasp signal and system analysis Provides helpful explanations of complex concepts and techniques related to signals and systems Includes worked-through examples of real-world applications using Python, an open-source software tool, as well as a custom function module written for the book Brings you up-to-speed on the concepts and formulas you need to know Signals & Systems For Dummies is your ticket to scoring high in your introductory signals and systems course.

Commerce Business Daily Oxford University Press
The censorship and surveillance of individuals, societies, and countries have been a long-debated ethical and moral issue. In consequence, it is vital to explore this controversial topic from all angles. Censorship, Surveillance, and Privacy: Concepts, Methodologies, Tools, and Applications is a vital reference source on the social, moral, religious, and political aspects of censorship and surveillance. It also explores the techniques of technologically supported censorship and surveillance. Highlighting a range of topics such as political censorship, propaganda, and information privacy, this multi-volume book is geared towards government officials, leaders, professionals, policymakers, media specialists, academicians, and researchers interested in the various facets of censorship and surveillance.
Technical Abstract Bulletin John Wiley & Sons

This IBM® RedpaperTM publication provides information about the implementation and use of solid-state drives (SSDs) in IBM XIV® Storage System XIV Generation 3 (Gen3), running XIV software version 11.1.0 or later. In the XIV system, SSDs are used to increase the read cache capacity of the existing DRAM memory cache, and are not used for persistent storage. This paper begins with a high-level overview of the SSD implementation in XIV and a brief review of the SSD technology, with focus on the XIV system. It explains the SSD Caching design and implementation in XIV. Then it examines typical workloads that can benefit from the SSD Caching extension and introduces the tools and utilities to help you analyze and understand the workload. In particular, it highlights the block tracing facility that was designed and developed by IBM Research. Then this paper explains the process that authorized IBM services representatives use to install SSD Caching. It reviews the changes made to the XIV GUI and the XCLI to support SSD Caching. Finally this paper provides a listing of the new alert-generating events and monitoring options that are provided for SSD support. This paper is intended for users who want an insight into the XIV SSD Caching implementation and architecture, its capabilities, and usage. For more information about the IBM XIV Storage System, see the IBM Redbooks® publication, "IBM XIV Storage System: Architecture, Implementation, and Usage," SG24-7659.

Scientific and Technical Aerospace Reports Springer
Present Your Research to the World! The World Congress 2009 on Medical Physics and Biomedical Engineering – the triennial scientific meeting of the IUPESM - is the

world's leading forum for presenting the results of current scientific work in health-related physics and technologies to an international audience. With more than 2,800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009! Medical physics, biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades. As new key technologies arise with significant potential to open new options in diagnostics and therapeutics, it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output. Covering key aspects such as information and communication technologies, micro- and nanosystems, optics and biotechnology, the congress will serve as an inter- and multidisciplinary platform that brings together people from basic research, R&D, industry and medical application to discuss these issues. As a major event for science, medicine and technology the congress provides a comprehensive overview and in– depth, first-hand information on new developments, advanced technologies and current and future applications. With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich! Olaf Dössel Congress President Wolfgang C.

Advances in Stochastic Structural Dynamics Springer
This book presents recent research results related to various applications of computer vision methods in the widely understood contexts of automation and robotics. As the current progress of image analysis applications may be easily observed in various areas of everyday life, it becomes one of the most essential elements of development of Industry 4.0 solutions. Some of the examples, partially discussed in individual chapters, may be related to the visual navigation of mobile robots and drones, monitoring of industrial production lines, non-destructive evaluation and testing, monitoring of the IoT devices or the 3D printing process and the quality assessment of manufactured objects, video surveillance systems, and decision support in autonomous vehicles.

Applications of Computer Vision in Automation and Robotics MDPI
This volume constitutes the refereed proceedings of the 3rd International Conference on Advanced Communication and Networking, ACN 2011, held in Brno, Czech Republik, in June 2011. The 57 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers focus on the various aspects of progress in Advanced Communication and Networking with computational sciences, mathematics and information technology and address all current issues of communication basic and infrastructure, networks basic and management, multimedia application, image, video, signal and information processing.

Computer Vision – ACCV 2018 The Stationery Office
The official guide which explains the standards required to complete the Compulsory Basic Training (CBT) course

and pass the practical motorcycle test. Good preparation will make it more likely to achieve a pass first time whilst also improving skills for the future.

Conference Record Springer Science & Business Media

The aim of the book is to introduce new developments in Ambient Intelligence from researchers of several countries. The book includes different works in the area of Ubiquitous Computing, e-Health, Ambient Assisted Living, Distributed Computing and Context Aware Computing that have been selected by an international committee. The studies have been presented in the 9th International Symposium on Ambient Intelligence held in Toledo in June 2018.

CERN. Springer Nature

Single-subject research designs have been used to build evidence to the effective treatment of problems across various disciplines including social work, psychology, psychiatry, medicine, allied health fields, juvenile justice, and special education. SSD for R serves as a guide for those desiring to conduct single-subject data analysis and introduces readers to the various functions available in SSD for R, a new, free, and innovative software package written in R--the open-source statistical programming language that was written by the book's authors. This second edition of SSD for R is the most comprehensive guide to the numerous graphing and charting functions for conducting robust visual analysis including line graphs and more complex standard deviation lines. This book also contains numerous tests of statistical significance, such as t-tests, chi-squares, and the conservative dual criteria. Auerbach and Zeitlin guide readers through the analytical process based on the characteristics of their data. In addition to presentations and assignments, this new edition contains more examples and illustrations to help readers understand the wide range of functions available in SSD for R and their application to data analysis and interpretation. SSD for R is the only book of its kind to describe single-subject data analysis while providing free statistical software to do so. For more instructional videos, blogs, and a growing community of researchers interested in single-subject designs, visit the authors' website: http://ssdanalysis.com.

Real-Time Optimization MDPI

The four-volume set LNCS 11056, 110257, 11258, and 11073 constitutes the refereed proceedings of the First Chinese Conference on Pattern Recognition and Computer Vision, PRCV 2018, held in Guangzhou, China, in November 2018. The 179 revised full papers presented were carefully reviewed and selected from 399 submissions. The papers have been organized in the following topical sections: Part I: Biometrics, Computer Vision Application. Part II: Deep Learning. Part III: Document Analysis, Face Recognition and Analysis, Feature Extraction and Selection, Machine Learning. Part IV: Object Detection and Tracking, Performance Evaluation and Database, Remote Sensing.

Advances in High-pressure Mineralogy IOS Press

The six volume set LNCS 11361-11366 constitutes the proceedings of the 14th Asian Conference on Computer Vision, ACCV 2018, held in Perth, Australia, in December

2018. The total of 274 contributions was carefully reviewed and selected from 979 submissions during two rounds of reviewing and improvement. The papers focus on motion and tracking, segmentation and grouping, image-based modeling, dep learning, object recognition object recognition, object detection and categorization, vision and language, video analysis and event recognition, face and gesture analysis, statistical methods and learning, performance evaluation, medical image analysis, document analysis, optimization methods, RGBD and depth camera processing, robotic vision, applications of computer vision.

Censorship, Surveillance, and Privacy: Concepts, Methodologies, Tools, and Applications Frontiers Media SA
This book constitutes the refereed proceedings of the 15th International Conference on Web-Age Information Management, WAIM 2014, held in Macau, China, in June 2014. The 48 revised full papers presented together with 35 short papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on information retrieval; recommender systems; query processing and optimization; data mining; data and information quality; information extraction; mobile and pervasive computing; stream, time-series; security and privacy; semantic web; cloud computing; new hardware; crowdsourcing; social computing.

The Official DSA Guide to Learning to Ride IGI Global
Skip the fluff and get straight to the essentials with an indispensable prep handbook for the CompTIA A+ Core 1 exam In CompTIA A+ CertMike: Prepare. Practice. Pass the Test! Get Certified! Core 1 Exam 220-1101, veteran tech experts and educators Mike Chapple and Mark Soper deliver a hands-on and practical roadmap to taking—and succeeding on—the CompTIA A+ Core 1 exam. You'll learn how to install, configure, and maintain computer equipment, mobile devices, and software for end users, service components based on customer requirements, understand networking basics, and apply essential cybersecurity methods. Ace the test using the proven CertMike approach: Prepare -- CertMike is your personal study coach, guiding you through all the exam objectives and helping you gain an understanding of how they apply to on-the-job tasks! Practice -- Each chapter includes two multiple choice practice questions. Work through the detailed explanations to evaluate each answer option and understand the reason for the best answer! Pass -- On exam day, use the critical knowledge you've learned when you're ready to take the test. You'll feel ready and confident to pass the exam and earn your certification! With a laser-focus on getting you job- and exam-ready, the book skips the fluff and gets right to the point of getting you familiar with IT basics and on the road to an in-demand IT certification and a new career in tech. You'll also get complimentary access to additional online study tools, complete with a bonus practice exam and audio recordings of the CertMike Exam Essentials. Banish test anxiety and feel ready to pass the test—the first time around! An indispensable resource for anyone preparing for their A+ certification, CompTIA A+ CertMike: Prepare. Practice. Pass the Test! Get Certified! Core 1 Exam 220-1101 is also a must-read for hardware and PC technicians seeking to upgrade their skillset.

Ambient Intelligence – Software and Applications – , 9th International Symposium on Ambient Intelligence Springer Nature
With the general acknowledgement that climate change constitutes an existential threat to both mankind and to the planet, the quest for more sustainable and environmentally-friendly ways of developing and maintaining human civilizations

has become ever more important in recent years. This book presents the proceedings of GEESD2022, the 3rd International Conference on Green Energy, Environment and Sustainable Development. Due to continuing travel restrictions as a result of the COVID-19 pandemic, the conference was held as a hybrid event, part face-to-face in Beijing, China, and partly online via Zoom, on 29 June 2022. The 141 papers included here were selected after a rigorous 6-month process of evaluation and peer-review from the more than 300 submissions received, and are grouped into 7 sections: energy system and smart control; sustainable and green energy; environmental modeling and simulation; environmental science and pollution research; ecology and rural environment; building and environment; and water and mineral resources. The book provides an overview of the most up-to-date findings and technologies current in green energy, environment and sustainable development today, and will be of interest to all those working in the field.

Solid-State Drive Caching in the IBM XIV Storage System Geological Society of America

This book is a printed edition of the Special Issue "Real-Time Optimization" that was published in Processes

<u>Management, a Continuing Literature Survey with Indexes</u> John Wiley & Sons

Collection of technical papers presented at the 5th International Conference on Stochastic Structural Dynamics (SSD03) in Hangzhou, China during May 26-28, 2003. Topics include direct transfer substructure method for random response analysis, generation of bounded stochastic processes, and sample path behavior of Gaussian processes.

<u>NASA SP-7500</u> Springer

Optical Payloads for Space Missions is a comprehensive collection of optical spacecraft payloads with contributions by leading international rocket-scientists and instrument builders. Covers various applications, including earth observation, communications, navigation, weather, and science satellites and deep space exploration Each chapter covers one or more specific optical payload Contains a review chapter which provides readers with an overview on the background, current status, trends, and future prospects of the optical payloads Provides information on the principles of the optical spacecraft payloads, missions' background, motivation and challenges, as well as the scientific returns, benefits and applications

Multimedia Technology and Enhanced Learning Frontiers Media SA

This proceedings volume contains selected and expanded contributions presented at the 6th International Symposium of Space Optical Instruments and Applications, held in Delft, the Netherlands on Sep 24th– 25th, 2019. The meeting was organized by the Sino-Holland Space Optical Instruments Joint Laboratory and supported by TU Delft. The symposium focused on key innovations of space-based optical instruments and applications, and the newest developments in theory, technology and applications in optics, in both China and Europe. It

thus provided a platform for exchanges on the latest research and current and planned optical missions. The major topics covered in these conference proceedings are: space optical remote sensing system design; advanced optical system design and manufacturing; remote sensor calibration and measurement; remote sensing data processing and information retrieval; and remote sensing data applications.

Advanced Communication and Networking CRC Press The two-volume set LNCS 10735 and 10736 constitutes the thoroughly refereed proceedings of the 18th Pacific-Rim Conference on Multimedia, PCM 2017, held in Harbin, China, in September 2017. The 184 full papers presented were carefully reviewed and selected from 264 submissions. The papers are organized in topical sections on: Best Paper Candidate; Video Coding; Image Super-resolution, Debluring, and Dehazing; Person Identity and Emotion; Tracking and Action Recognition; Detection and Classification; Multimedia Signal Reconstruction and Recovery; Text and Line Detection/Recognition; Social Media; 3D and Panoramic Vision; Deep Learning for Signal Processing and Understanding; Large-Scale Multimedia Affective Computing; Sensor-enhanced Multimedia Systems; Content Analysis; Coding, Compression, Transmission, and Processing.