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Skill-Based reconfiguration of industrial mobile robots Stefanie Angerer 2012-07-23 Caused by a rising mass customisation and the high variety of equipment versions, the flexibility of manufacturing systems in car production has to be increased. In this thesis a skill-based reconfiguration mechanism is presented to enhance functional reconfigurability of industrial mobile robots. A novel reconfiguration mechanism allows to react self-organised to functional process changes. The result of this mechanism is the on-line integration of new robot functionalities into the current manufacturing process while maintaining the productivity of the mobile robot. Applied to an industrial mobile robot that is provided by AUDI AG, the suggested mechanism is validated in a real-world environment including the on-line verification of the reconfigured robot functionality in a Validity Check.

Practical Sustainability Strategies Nikos Avlonas 2013-10-21 Strategies that enable organizations to succeed as businesses and as responsible corporate citizens Based on the authors' many years of research and hands-on experience, this book provides tested and proven practical strategies that make it possible for organizations to develop, maintain, or extend their competitive advantage without causing harm to the environment and society. Moreover, it explains how to set goals and objectives and then monitor, measure, and report on progress towards achieving corporate social responsibility and environmental sustainability. Most importantly, readers will discover that this can all be accomplished while, at the same time, improving bottom-line profitability. Practical Sustainability Strategies: How to Gain a Competitive Advantage is divided into four parts: Part 1, Introduction to Sustainability, underscores the urgency for organizations to adopt and develop sustainable practices Part 2, Sustainable Strategies, details numerous strategies that have been proven to work, including environmental innovation through biomimicry, green buildings, and green chemistry Part 3, Tools and Metrics, offers practical information on implementing strategies and measuring sustainability and reporting, including global standards and guidelines for managing sustainability, life-cycle analysis, carbon and water footprints such as GRI, GHG Protocol, UN Global Compact Part 4, Conclusion, provides an expert forecast of the future of sustainability Case studies based on the authors' research and fieldwork illustrate how leading companies have implemented each of the sustainability strategies discussed in the book. There's also an appendix with additional case studies exploring various aspects of business practices and sustainability. Practical Sustainability Strategies is ideal as a graduate textbook as well as a reference for business managers. All readers will not only gain a greater appreciation for sustainable development, but also the skills needed to integrate sustainability into all aspects of their organization's business practices.

De lange weg naar de vrijheid Nelson Mandela 2017-10-21 De lange weg naar de vrijheid is de beroemde autobiografie van een van de grootste mannen van de twintigste eeuw. Nelson Mandela beschrijft de lange weg die hij heeft moeten afleggen van onwetende jongen tot charismatisch staatsman. Dit is het verhaal van misschien wel de wonderbaarlijkste omwenteling in de geschiedenis, verteld door de man die het allemaal heeft meegemaakt en in gang gezet. Het verhaal van Mandela, door Mandela.

Tinnitus - An Interdisciplinary Approach Towards Individualized Treatment, Volume 261, the latest release in the Neuropharmacology of Neuroprotection series, presents the latest research on the topic of Progress in Brain Research. This series highlights new advances in the field, providing comprehensive and timely chapters written by an international board of esteemed authors. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Progress in Brain Research series Updated release includes the latest information on the Neuropharmacology of Neuroprotection

Advances in User Modeling Liliana Ardissono 2012-02-23 This book constitutes selected papers from the lectures given at the workshops held in conjunction with the User Modeling, Adaptation and Personalization Conference, UMAP 2011, Girona, Spain, in July 2011. The 40 papers presented were carefully reviewed and selected for inclusion in this book. For each workshop there is an overview paper summarizing the workshop themes, the accepted contributions and the future research trends. In addition the volume presents a selection of the best poster papers of UMAP 2011. The workshops included are: AST, adaptive support for team collaboration; AUM, augmenting user models with real worlds experiences to enhance personalization and adaptation; DEMRA, decision making and recommendation acceptance issues in recommender systems; PALE, personalization approaches in learning environments; SASWeb, semantic adaptive social web; TRUM, trust, reputation and user modeling; UMADR, user modeling and adaptation for daily routines: providing assistance to people with special and specific needs; UMMS, user models for motivational systems: the affective and the rational routes to persuasion.

Outlook 2008

Sustainable Supply Chains Tonya Boone 2012-06-07 A sustainable enterprise is one that contributes to sustainable development by simultaneously delivering economic, social and environmental benefits or what has been termed "the triple bottom line." While pursuing profit, socially responsible companies should be sensitive to the environment and uphold the rights of all the firm's stakeholders. This edited volume explores leading-edge ideas — both by academics and forward-thinking companies — to (re)design and market products, source, manufacture, and eventually distribute and recover or dispose of them in an environmentally, ecologically, and socially responsible way. This edited volume is made up of fifteen chapters loosely grouped into clusters. After an introduction, chapter 2 shows the greenhouse emissions at various levels, from countries all the way to individual products. Chapters 3-7 each focus on an industrial sector and address issues specific to that industry, with chapter 7 presenting a case study on LEED certification of Miller Hall, home of the Mason School of Business where two of the authors (Tonya and Ram) work. Chapters 8-10 address product take back in the supply chain. Chapter 8 introduces e-waste and surveys what firms are doing to combat it. Chapter 9 provides an overview of existing take-back legislation and academic papers that have studied various research questions associated with them. Chapter 10 is a tutorial that addresses the problem of product disposition on a closed-loop supply chain: what should a firm do with a product return? Chapters 11-15 address measurement, monitoring, decision-making, and reporting regarding environmental issues in a firm. Chapter 11 provides an academic survey of eco-labeling and the consumer's willingness to pay for them. Chapter 12 discusses how firms can measure the total carbon footprint in their supply chains and some of the strategies they can use to mitigate carbon emissions. Using the price of call options, chapter 13 illustrates how managers can quantify the savings attributed to sustainability-related investment. Chapter 14 develops a non-linear optimization model that addresses the complex trade-offs involved in making joint operational and environmental decisions. Finally, chapter 15 develops a Data Envelopment Analysis-based method for supplier evaluation incorporating environmental and business factors.

Berea College 2012 Gerald Fitts 2011-03-15

The American City & County 2009

Realtor Magazine 2008

Runningtherapie Bram Bakker 2011-10-11 Steeds meer mensen ontdekken hoe prettig het is om regelmatig hard te lopen. Het biedt compensatie voor het werk dat ze de hele dag met hun hoofd doen, en het is een doeltreffende manier om spanningen kwijt te raken. Steeds meer wordt hardlopen ook gebruikt als mogelijkheid om psychische klachten te behandelen. Wat runningtherapie inhoudt wordt in dit boek uitvoerig besproken, net als de

werkingsmechanismen ervan. Daarbij komen zowel de puur fysieke aspecten aan de orde als de psychologische betekenis die regelmatig bewegen heeft. Ook voor iedereen die nog geen burn-out heeft is dit boek een aanrader, omdat het belang van lichaamsbeweging voor een gezonde psyche in het algemeen wordt uiteengezet. Runningtherapie wordt als ondersteuning gebruikt in cursussen runningtherapie én is een informatiegids voor iedereen die hardlopen wil inzetten om zichzelf of een ander zich beter te laten voelen. Een standaardwerk kortom voor lopers, looptrainers en professionals. Zie ook: www.runningtherapie.nl

The Science of Aphasia Rehabilitation Chris Code 2016-02-05 This book examines the rehabilitation of language disorders in adults, presenting new research, as well as expert insights and perspectives, into this area. The first chapter presents a study on personalised cueing to enhance word finding. Cynthia K. Thompson and her colleagues contribute a chapter describing The Northwestern Naming Battery and its use in examining for verb and noun deficits in stroke-induced and primary progressive aphasia. Heather Harris-Wright and Gilson J. Capilouto examine a multi-level approach to understanding the maintenance of global coherence in aphasia. Kathryn M. Yorkston and colleagues provide discussion on the training of healthcare professionals, and what speech and language pathology and medical education can learn from one another. Yorkston also presents a systematic review asking whether principles of motor learning can enhance retention and transfer of speech skills. Connie A. Tompkins present a single-participant experiment examining generalization of a novel treatment for coarse coding deficit in right hemisphere damage. Finally, Chris Code returns to the topic of apportioning time for aphasia treatment. This book was originally published as a special issue of *Aphasiology*.

Real-time Systems Scheduling 2 Maryline Chetto 2014-09-10 Real-time systems are used in a wide range of applications, including control, sensing, multimedia, etc. Scheduling is a central problem for these computing/communication systems since it is responsible for software execution in a timely manner. This book, the second of two volumes on the subject, brings together knowledge on specific topics and discusses the recent advances for some of them. It addresses foundations as well as the latest advances and findings in real-time scheduling, giving comprehensive references to important papers, but the chapters are short and not overloaded with confusing details. Coverage includes scheduling approaches for networks and for energy autonomous systems. Other sophisticated issues, such as feedback control scheduling and probabilistic scheduling, are also addressed. This book can serve as a textbook for courses on the topic in bachelor's degrees and in more advanced master's degree programs. It also provides a reference for computer scientists and engineers involved in the design or the development of Cyber-Physical Systems which require up-to-date real-time scheduling solutions.

Successfully Choosing Your EMR Arthur Gasch 2010-03-26 The Electronic Medical Record (EMR) - is the essential underpinning of any significant healthcare reform and is the more comprehensive record than the Electronic Health Record (EHR). This book clarifies the Crucial Decisions that result in successful EMR adoption and avoidance of expensive EMR mistakes. It provides timely insight in leveraging ARRA/HiTech, Meaningful Use, Stark Safe Harbor, CPOE and PQRI incentives and understanding current HITSP, HL7, ASTM, ELINCS and other interoperability standards. This book provides practical guidance on: Evaluating EMR ease-of-use Determining In-office vs. Web-based vs. Blended EMR deployment Deciding which user-interface approach to adopt Understanding structured vs. unstructured charting approaches Assessing EMR developer stability Obtaining legal advice about RFIs, RFPs and contract negotiations "The federal government has set aside significant incentives for physicians to adopt and implement electronic medical record systems. As providers across the country seek out various health IT tools and capabilities, this book serves as a remarkably useful, step-by-step guide for successfully deploying an EMR system. This kind of information will be imperative as we bring our health system into the 21st century." —Newt Gingrich, Founder of The Center for Health Transformation, Former Speaker of the House, USA Also endorsed by: Rep. Rush Holt (D NJ), Richard Dick, Ph.D. & Radu Kramer, M.D.

Topics on the Dynamics of Civil Structures, Volume 1 J.M. Caicedo 2012-04-05 Topics on the Dynamics of Civil Structures, Volume 1, Proceedings of the 30th IMAC, A Conference and Exposition on Structural Dynamics, 2012, the first volume of six from the Conference, brings together 45 contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: Human Induced Vibrations Bridge Dynamics Operational Modal Analysis Experimental Techniques and Modeling for Civil Structures System Identification for Civil Structures Method and Technologies for Bridge Monitoring Damage Detection for Civil Structures Structural Modeling Vibration Control Method and Approaches for Civil Structures Modal Testing of Civil Structures

Sustainability of Scholarly Information G. G. Chowdhury 2014-07-11 This is the first book to discuss the sustainable development of digital scholarly information in three key aspects: economic, social and environmental sustainability. Taking as its starting point the premise that digital information systems and services form the backbone of a knowledge society and digital economy, this book explores the challenges of ensuring sustainability of information in an evolving digital world. Author Gobinda Chowdhury attempts to find answers to five key questions in the context of scholarly information systems and services: How sustainable are today's information systems and services? How can we ensure the sustainability of information throughout its lifetime? Can today's information systems and services face the new economic challenges while providing easy and equitable access to information for everyone? Can the level and quality of information services be sustained over a long period of time? Can all these activities be performed in an environment-friendly manner? Chowdhury takes the approach of a research monograph based on literature review and meta-analysis of the issues and challenges associated with the various forms of sustainability of digital information systems and services. He proposes new models for study and research based on the critical analysis of developments in related areas. Illustrated with case studies and informed by the latest research, the chapters cover: - Economic sustainability of information - Environmental sustainability of information - Social sustainability of information - Sustainability of digital libraries and information services - Emerging issues and policies - Sustainability of information models - Research issues and challenges. Readership: This cutting-edge text is a must-read for those involved in setting policy and direction for information institutions, digital library managers and developers, researchers and students on LIS and digital information courses.

Statement of Disbursements of the House as Compiled by the Chief Administrative Officer from ... United States. Congress. House 1996 Covers receipts and expenditures of appropriations and other funds.

Model Driven Engineering Languages and Systems Robert B. France 2012-09-19 This book constitutes the refereed proceedings of the 15th International Conference on Model Driven Engineering Languages and Systems, MODELS 2012, held in Innsbruck, Austria, in September/October 2012. The 50 papers presented in this volume were carefully reviewed and selected from a total of 181 submissions. They are organized in topical sections named: metamodels and domain specific modeling; models at runtime; model management; modeling methods and tools, consistency analysis, software product lines; foundations of modeling; static analysis techniques; model testing and simulation; model transformation; model matching, tracing and synchronization; modeling practices and experience; and model analysis.

Computational Logistics Jürgen W. Böse 2011-09-25 This book constitutes the refereed proceedings of the Second International Conference on Computational Logistics, ICCL 2011, held in Hamburg, Germany, in September 2011. The 26 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on transport services, logistics systems and production, and maritime shipping and container terminals.

Practical Aspects of Declarative Languages Ricardo Rocha 2011-01-21 This book constitutes the refereed proceedings of the 13th International Symposium on Practical Aspects of Declarative Languages, PADL 2011, held in Austin, TX, USA, in January 2011, co-located with POPL 2011, the Symposium on Principles of Programming Languages. The 17 revised full papers presented together with one application paper were carefully reviewed and selected from 40 submissions. The volume features a variety of contributions ranging from message-passing and mobile networks, concurrent and parallel programming, event processing and reactive programming, profiling and portability in Prolog, constraint programming, grammar combinators, belief set merging and work on new language extensions and tools.

India Today 2009

Pop Culture Goes to War Geoff Martin 2010-07-24 Pop Culture Goes to War, by Geoff Martin and Erin Steuter, explores the persistence of and opposition to militarism in American life. It provides a comprehensive overview of the role of toys, video games, music, television and movies in supporting contemporary militarism. Resistance to militarism is highlighted through the traditional mediums of music and movies, and increasingly through the arts, 'culture jamming,' and the satire of The Daily Show, The Onion, The Simpsons, The Colbert Report, and South Park.

Business Week 2009

Non-Destructive Testing Fausto Pedro García Márquez 2016-07-27 Non-destructive testing (NDT) is based on inspection methodologies that do not require the change or destruction of the component or system under evaluation. Numerous NDT techniques are increasingly used, thanks to the recent advances in sensing technologies, data acquisition, data storage and signal processing. Inspection information is widely employed in order to make effective maintenance decisions based on the defects identified, their location and severity. This book presents the main advances recently made on different NDT techniques, together with the principal approaches employed to process the

signals obtained during inspection.

Hearing on Committee Funding for the 111th Congress United States. Congress. House. Committee on House Administration 2009

Turbulence Christophe Bailly 2015-03-21 This book covers the major problems of turbulence and turbulent processes, including physical phenomena, their modeling and their simulation. After a general introduction in Chapter 1 illustrating many aspects dealing with turbulent flows, averaged equations and kinetic energy budgets are provided in Chapter 2. The concept of turbulent viscosity as a closure of the Reynolds stress is also introduced. Wall-bounded flows are presented in Chapter 3 and aspects specific to boundary layers and channel or pipe flows are also pointed out. Free shear flows, namely free jets and wakes, are considered in Chapter 4. Chapter 5 deals with vortex dynamics. Homogeneous turbulence, isotropy and dynamics of isotropic turbulence are presented in Chapters 6 and 7. Turbulence is then described both in the physical space and in the wave number space. Time dependent numerical simulations are presented in Chapter 8, where an introduction to large eddy simulation is offered. The last three chapters of the book summarize remarkable digital techniques current and experimental. Many results are presented in a practical way, based on both experiments and numerical simulations. The book is written for advanced engineering students as well as postgraduate engineers and researchers. For students, it contains the essential results as well as details and demonstrations whose oral transmission is often tedious. At a more advanced level, the text provides numerous references which allow readers to find quickly further study regarding their work and to acquire a deeper knowledge on topics of interest.

A Practical Guide to Computer Forensics Investigations Darren R. Hayes 2014-12-17 All you need to know to succeed in digital forensics: technical and investigative skills, in one book Complete, practical, and up-to-date Thoroughly covers digital forensics for Windows, Mac, mobile, hardware, and networks Addresses online and lab investigations, documentation, admissibility, and more By Dr. Darren Hayes, founder of Pace University's Code Detectives forensics lab—one of America's "Top 10 Computer Forensics Professors" Perfect for anyone pursuing a digital forensics career or working with examiners Criminals go where the money is. Today, trillions of dollars of assets are digital, and digital crime is growing fast. In response, demand for digital forensics experts is soaring. To succeed in this exciting field, you need strong technical and investigative skills. In this guide, one of the world's leading computer forensics experts teaches you all the skills you'll need. Writing for students and professionals at all levels, Dr. Darren Hayes presents complete best practices for capturing and analyzing evidence, protecting the chain of custody, documenting investigations, and scrupulously adhering to the law, so your evidence can always be used. Hayes introduces today's latest technologies and technical challenges, offering detailed coverage of crucial topics such as mobile forensics, Mac forensics, cyberbullying, and child endangerment. This guide's practical activities and case studies give you hands-on mastery of modern digital forensics tools and techniques. Its many realistic examples reflect the author's extensive and pioneering work as a forensics examiner in both criminal and civil investigations. Understand what computer forensics examiners do, and the types of digital evidence they work with Explore Windows and Mac computers, understand how their features affect evidence gathering, and use free tools to investigate their contents Extract data from diverse storage devices Establish a certified forensics lab and implement good practices for managing and processing evidence Gather data and perform investigations online Capture Internet communications, video, images, and other content Write comprehensive reports that withstand defense objections and enable successful prosecution Follow strict search and surveillance rules to make your evidence admissible Investigate network breaches, including dangerous Advanced Persistent Threats (APTs) Retrieve immense amounts of evidence from smartphones, even without seizing them Successfully investigate financial fraud performed with digital devices Use digital photographic evidence, including metadata and social media images

Wireless and Satellite Systems Prashant Pillai 2015-10-08 This book constitutes the proceedings of the 7th International Conference on Wireless and Satellite Services, WiSATS 2015, held in Bradford, UK, in July 2015. The conference was formerly known as the International Conference on Personal Satellite Services (PSATS) mainly covering topics in the satellite domain. As the scope of the conference widened to include wireless systems, the conference was renamed to WiSATS. The 29 revised papers were presented at the conference in three technical sessions and one special session on "Network Coding for Satellites". WiSATS 2015 also hosted two workshops along with the main conference: The first workshop, Communication Applications in Smart Grid (CASG 2015), focused on the merging area of using communication technology within the electricity power grid for smart monitoring and control. The second workshop, Advanced Next-Generation Broadband Satellite Systems (BSS 2015), focused on the use of satellite systems for providing next-generation broadband services.

Energy and Water Development Appropriations for 2011: Dept. of Energy: Nuclear energy; Secretary of Energy United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development 2010 HWM 2008-10 Singapore's leading tech magazine gives its readers the power to decide with its informative articles and in-depth reviews.

Pervasive Mobile and Ambient Wireless Communications Roberto Verdone 2012-01-02 Pervasive Mobile and Ambient Wireless Communications reports the findings of COST 2100, a project of the European intergovernmental COST framework addressing various topics currently emerging in mobile and wireless communications. Drawing on experience developed in this and earlier COST projects, the text represents the final outcome of collaborative work involving more than 500 researchers in 140 institutions and 30 countries (including outside Europe). The book's subject matter includes: transmission techniques; signal processing; radio channel modelling and measurement; radio network issues; and recent paradigms including ultra-wideband, cooperative, vehicle-to-vehicle and body communications. The research reported comes from a variety of backgrounds: academic, equipment-manufacturing and operational and the information contained in this book will bring the study reported to a wider audience from all those spheres of work. Pervasive Mobile and Ambient Wireless Communications will be of interest to researchers for its cutting-edge analysis and to practitioners for its functional usability.

Critical Infrastructure Protection VI Jonathan Butts 2013-02-17 The information infrastructure - comprising computers, embedded devices, networks and software systems - is vital to day-to-day operations in every sector: information and telecommunications, banking and finance, energy, chemicals and hazardous materials, agriculture, food, water, public health, emergency services, transportation, postal and shipping, government and defense. Global business and industry, governments, indeed society itself, cannot function effectively if major components of the critical information infrastructure are degraded, disabled or destroyed. Critical Infrastructure Protection VI describes original research results and innovative applications in the interdisciplinary field of critical infrastructure protection. Also, it highlights the importance of weaving science, technology and policy in crafting sophisticated, yet practical, solutions that will help secure information, computer and network assets in the various critical infrastructure sectors. Areas of coverage includes: Themes and Issues; Control Systems Security; Infrastructure Security; and Infrastructure Modeling and Simulation. This book is the sixth volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.10 on Critical Infrastructure Protection, an international community of scientists, engineers, practitioners and policy makers dedicated to advancing research, development and implementation efforts focused on infrastructure protection. The book contains a selection of sixteen edited papers from the Sixth Annual IFIP WG 11.10 International Conference on Critical Infrastructure Protection, held at the National Defense University, Washington, DC, USA in the spring of 2011. Critical Infrastructure Protection VI is an important resource for researchers, faculty members and graduate students, as well as for policy makers, practitioners and other individuals with interests in homeland security. Jonathan Butts is an Assistant Professor of Computer Science at the Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, USA. Sujeeet Shenoj is the F.P. Walter Professor of Computer Science and a Professor of Chemical Engineering at the University of Tulsa, Tulsa, Oklahoma, USA.

Danger Close William G. Boykin Lieutenant General (Retired) 2019-09-10 Barely into his twenties and already a highly decorated military hero, Army Special Forces veteran Blake Kershaw is now going to college, studying while recuperating from wounds received in Afghanistan, and planning to re-enter the Army as an officer after graduation. But life tosses Blake a curve when his country approaches him about using his special skills to avert a terrorist plot to detonate a nuclear device in a major eastern U.S. city. To do that, he would need to become an operative deep within Al-Qaeda's innermost circles—changing his entire identity, even his face. A true patriot, Blake makes the journey into a shadow world that leaves friends, family and, seemingly, even God far behind. But when things go terribly wrong, and his country looks set to destroy him, it is God and God's people who intervene.

The 2009 Solo and Small Firm Legal Technology Guide Sharon D. Nelson 2009 An annual guide helps solo and small firm lawyers find the best legal technology for their dollar, providing current information and recommendations on computers, servers, networking equipment, legal software, printers, security products, smartphones, and everything else a law office might need. Original.

The 2010 Solo and Small Firm Legal Technology Guide Sharon D. Nelson 2011-07-16 Computers -- Computer operating systems -- Monitors -- Computer peripherals -- Printers -- Scanners -- Servers -- Server operating systems -- Networking hardware -- Miscellaneous hardware -- Productivity software -- Security software -- Case management -- Billing software -- Litigation programs -- Document management -- Document assembly -- Collaboration -- Remote access -- Mobile security -- More about Macs -- Unified messaging and telecommunications -- Utilities -- The legal implications of social networking -- Paperless or paper LESS -- Tomorrow in legal tech.

Steps to Starting a Recession-Proof Business: Where to Find Ideas and How to Start

2014-05-14

Foundations of Intelligent Systems Marzena Kryszkiewics 2011-06-24 This book constitutes the refereed proceedings of the 19th International Symposium on Methodologies for Intelligent Systems, ISMIS 2011, held in Warsaw, Poland, in June 2011. The 71 revised papers presented together with 3 invited papers were carefully reviewed and selected from 131 submissions. The papers are organized in topical sections on rough sets - in memoriam Zdzisław Pawlik, challenges in knowledge discovery and data mining - in memoriam Jan Żytkow, social networks, multi-agent systems, theoretical backgrounds of AI, machine learning, data mining, mining in databases and warehouses, text mining, theoretical issues and applications of intelligent web, application of intelligent systems in sound processing, intelligent applications in biology and medicine, fuzzy sets theory and applications, intelligent systems, tools and applications, and contest on music information retrieval.

Cultural Heritage Information Ian Ruthven 2015-02-12 This book provides an overview of various challenges and contemporary research activities in cultural heritage information focusing particularly on the cultural heritage content types, their characteristic and digitization challenges; cultural heritage content organization and access issues; users and usability as well as various policy and sustainability issues associated with digital cultural heritage information systems and services. Cultural Heritage Information, the first book in the peer-reviewed i-Research series, contains eleven chapters that have been contributed by seventeen leading academics from six countries. The book begins with an introductory chapter that provides a brief overview of the topic of digital cultural heritage information with the subsequent chapters addressing specific issues and research activities in this topic. The ordering of the chapters moves from scene setting on policies and infrastructures, through considerations of interaction, access and objects, through to concrete system implementations. The book concludes by looking forward to issues around sustainability, in the widest sense, that are necessary to think about in order to maximize the availability and longevity of our digital cultural heritage. The key topics covered are: - Managing digital cultural heritage information - Digital humanities and digital cultural heritage (alt-history and future directions) - Management of cultural heritage information: policies and practices - Cultural heritage information: artefacts and digitization technologies - Metadata in cultural contexts – from manga to digital archives in linked open data environment - Managing cultural heritage: information systems architecture - Cultural heritage information users and usability - A framework for classifying and comparing interactions in cultural heritage information systems - Semantic access and exploration in cultural heritage digital libraries - Supporting exploration and use of digital cultural heritage materials: the PATHS perspective - Cultural heritage information services: sustainability issues. Readership: This will be essential reading for researchers in Information Science specifically in the areas of digital libraries, digital humanities and digital culture. It will also be useful for practitioners and students in these areas who want to know the different research issues and challenges and learn how they have been handled in course of various research projects in these areas.

Recent Advances in Algorithmic Differentiation Shaun Forth 2012-07-30 The proceedings represent the state of knowledge in the area of algorithmic differentiation (AD). The 31 contributed papers presented at the AD2012 conference cover the application of AD to many areas in science and engineering as well as aspects of AD theory and its implementation in tools. For all papers the referees, selected from the program committee and the greater community, as well as the editors have emphasized accessibility of the presented ideas also to non-AD experts. In the AD tools arena new implementations are introduced covering, for example, Java and graphical modeling environments or join the set of existing tools for Fortran. New developments in AD algorithms target the efficiency of matrix-operation derivatives, detection and exploitation of sparsity, partial separability, the treatment of nonsmooth functions, and other high-level mathematical aspects of the numerical computations to be differentiated. Applications stem from the Earth sciences, nuclear engineering, fluid dynamics, and chemistry, to name just a few. In many cases the applications in a given area of science or engineering share characteristics that require specific approaches to enable AD capabilities or provide an opportunity for efficiency gains in the derivative computation. The description of these characteristics and of the techniques for successfully using AD should make the proceedings a valuable source of information for users of AD tools.

Oracle Enterprise Manager Cloud Control 12c Porus Homi Havewala 2012-01-01 This book is a practical step-by-step tutorial with screenshots for carrying out tasks showing you how to manage and administer your data center with Oracle Enterprise Manager. It is packed with best practices and tips that will help you benefit from the author's extensive experience of working with Oracle Enterprise Manager since at least a decade, and combined with his 25+ years IT industry experience. If you are a Data Center, IT or Database Team manager who wants to take advantage of the automation and compliance benefits of Enterprise Manager 12c Cloud Control, then Oracle Enterprise Mana.