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Handbook of Research on End-to-End Cloud Computing Architecture Design Springer Science & Business Media
An Industry Perspective on Key Tunable Technologies and Applications Tunable RF Components and Circuits: Applications in Mobile Handsets provides a technical introduction to the state of the art in tunable radio frequency (RF) components, circuits, and applications and discusses the foundational work that has been done to date. Leading practitioners in the field share their expertise on tunable devices in mobile handset applications. Through these practical viewpoints, readers discover how to use tunable RF techniques and devices to develop successful product designs. A substantial portion of the book focuses on antennas and antenna tuning, reflecting the dominance of the antenna tuning application in today's commercial market for tunable RF. The book explains how RF-microelectromechanical systems (RF-MEMS), barium strontium titanate (BST), silicon-on-insulator (SOI) field effect transistors (FETs), and high-performance complementary metal oxide semiconductors (CMOS) are used as enabling technologies for tunable functions in current and next-generation radio architectures. The book also describes power amplifier envelope tracking, an emerging and important technique for improving efficiency; presents a network operator's perspective on the evolution of the handset front end; and explores emerging approaches to production testing of wireless devices.

Handbook of Cognitive Behavioral Therapy by Disorder Springer Nature

The three-volume set CCIS 1419, CCIS 1420, and CCIS 1421 contains the extended abstracts of the posters presented during the 23rd International Conference on Human-Computer Interaction, HCII 2021, which was held virtually in July 2021. The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions. The posters presented in these three volumes are organized in topical sections as follows: Part I: HCI theory and methods; perceptual, cognitive and psychophysiological aspects of interaction; designing for children; designing for older people; design case studies; dimensions of user experience; information, language, culture and media. Part II: interaction methods and techniques; eye-tracking and facial expressions recognition; human-robot interaction; virtual, augmented and mixed reality; security and privacy issues in HCI; AI and machine learning in HCI. Part III: interacting and learning; interacting and playing; interacting and driving; digital wellbeing, eHealth and mHealth; interacting and shopping; HCI, safety and sustainability; HCI in the time of pandemic.

Patent Interference Practice Handbook Woodhead Publishing

This handbook summarizes the current advancements and growth in sustainable carbonaceous porous materials for fabrication and revival of energy devices, fuel cells, sensors technology, solar cell technology, stealth technology in addition to biomedical applications. It also covers the potential applications of carbon materials in various fields such as chemical, engineering, biomedical and environmental sciences. It also confers the prospective utilization of 2D and 3D hierarchical porous carbon in different interdisciplinary engineering applications. The book discusses major challenges faced in the development of cost-effective future energy storage strategies and provides effective solutions for improvement in the performance of carbon-based materials. Given the content, this handbook will be useful for students, researchers and professionals working in the area of material chemistry and allied fields.

Handbook on Thermal Hydraulics in Water-Cooled Nuclear Reactors Elsevier

Effective teaching is effective teaching, no matter where it occurs The pandemic teaching of mid-2020 was not really distance learning, but rather crisis teaching. But starting now, teachers have the opportunity to prepare for distance learning with purpose and intent—using what works best to accelerate students' learning all the while maintaining an indelible focus on equity. Harnessing the insights and experience of renowned educators Douglas Fisher, Nancy Frey, and John Hattie, *The Distance Learning Playbook*

applies the wisdom and evidence of **VISIBLE LEARNING®** research to understand what works best with distance learning. Spanning topics from teacher-student relationships, teacher credibility and clarity, instructional design, assessments, and grading, this comprehensive playbook details the research- and evidence-based strategies teachers can mobilize to deliver high-impact learning in an online, virtual, and distributed environment. This powerful guide includes: Learning Intentions and Success Criteria for each module to track your own learning and model evidence-based teacher practices for meaningful learning A diversity of instructional approaches, including direct instruction, peer learning, and independent work that foster student self-regulation and move learning to deep and transfer levels Discussion of equity challenges associated with distance learning, along with examples of how teachers can work to ensure that equity gains that have been realized are not lost. Special guidance for teachers of young children who are learning from a distance Videos of the authors and teachers discussing a wide variety of distance learning topics Space to write and reflect on current practices and plan future instruction *The Distance Learning Playbook* is the essential hands-on guide to preparing and delivering distance learning experiences that are truly effective and impactful. To purchase from an Authorized Corwin Distributor click here. A Spanish translation of the *Distance Learning Playbook, Grades K-12, Aprendizaje a Distancia Guia, Guia de Preescolar a Bachillerato*, can be purchased by contacting Irene Yopez from Editorial Trillas at vigaexporta@trillas.mx.

Research Handbook on Patent Law and Theory Springer Nature
Interactive mobile technologies have now become the core of many—if not all—fields of society. Not only do the younger generation of students expect a mobile working and learning environment, but also the new ideas, technologies and solutions introduced on a nearly daily basis also boost this trend. Discussing and assessing key trends in the mobile field were the primary aims of the 11th International Conference on Interactive Mobile Communication, Technologies and Learning (IMCL2017), which was held in Thessaloniki from 30 November to 01 December 2017. Since being founded in 2006, the conference has been devoted to new approaches in interactive mobile technologies, with a focus on learning. The IMCL conferences have in the meanwhile become a central forum of the exchange of new research results and relevant trends, as well as best practices. This book contains papers in the fields of: Future Trends and Emerging Mobile Technologies Design and Development of Mobile Learning Apps and Content Mobile Games—Gamification and Mobile Learning Adaptive Mobile Environments Augmented Reality and Immersive Applications Tangible, Embedded and Embodied Interaction Interactive Collaborative and Blended Learning Digital Technology in Sports Mobile Health Care and Training Multimedia Learning in Music Education 5G Network Infrastructure Case Studies Real-World Experiences The content will appeal to a broad readership, including policymakers, academics, educators, researchers in pedagogy and learning theory, school teachers, the learning industry, further education lecturers, etc.

Handbook of Big Data and IoT Security Cambridge University Press

Virtual and augmented reality raise significant questions for law and policy. When should virtual world activities or augmented reality images count as protected First Amendment 'speech', and when are they instead a nuisance or trespass? When does copying them infringe intellectual property laws? When should a person (or computer) face legal consequences for allegedly harmful virtual acts? *The Research Handbook on the Law of Virtual and Augmented Reality* addresses these questions and others, drawing upon free speech doctrine, criminal law, issues of data protection and privacy, legal rights for increasingly intelligent avatars, and issues of jurisdiction within virtual and augmented reality worlds.

The Cambridge Handbook of the Law of Algorithms Elsevier
Handbook on Thermal Hydraulics of Water-Cooled Nuclear Reactors, Volume 2, Modelling includes all new chapters which delve deeper into the topic, adding context and practical examples to help readers apply learnings to their own setting. Topics covered include experimental thermal-hydraulics and instrumentation, numerics, scaling and containment in thermal-hydraulics, as well as a title dedicated to good practices in verification and validation. This book will be a valuable reference for

graduate and undergraduate students of nuclear or thermal engineering, as well as researchers in nuclear thermal-hydraulics and reactor technology, engineers working in simulation and modeling of nuclear reactors, and more. In addition, nuclear operators, code developers and safety engineers will also benefit from the practical guidance provided. - Presents a comprehensive analysis on the connection between nuclear power and thermal hydraulics - Includes end-of-chapter questions, quizzes and exercises to confirm understanding and provides solutions in an appendix - Covers applicable nuclear reactor safety considerations and design technology throughout

The Distance Learning Playbook, Grades K-12 Springer

This book is concerned with human factors and ergonomics research and developments in the design and use of systems and devices for effective and safe healthcare delivery. It reports on approaches for improving healthcare devices so that they better fit to people's, including special population's needs. It also covers assistive devices aimed at reducing occupational risks of health professionals as well as innovative strategies for error reduction, and more effective training and education methods for healthcare workers and professionals. Equal emphasis is given to digital technologies and to physical, cognitive and organizational aspects, which are considered in an integrated manner, so as to facilitate a systemic approach for improving the quality and safety of healthcare service. The book also includes a special section dedicated to innovative strategies for assisting caregivers', patients', and people's needs during pandemic. Based on papers presented at the AHFE 2021 Conference on Human Factors and Ergonomics in Healthcare and Medical Devices, held virtually on 25–29 July, 2021, from USA, the book offers a timely reference guide to both researchers and healthcare professionals involved in the design of medical systems and managing healthcare settings, as well as to healthcare counselors and global health organizations.

Daily Graphic Springer Science & Business Media

A User's Guide to Patents, Fifth Edition provides guidance on the areas of European and UK patent law and procedure that are most important in day-to-day practice. This new edition sets out how patents can be obtained, exploited and enforced and addresses wider public policy aspects of patents and their economic significance, as well as past and likely future trends that affect legal practitioners. It is essential reading for IP practitioners, solicitors and barristers, patent attorneys, in-house lawyers, management executives and inventors. Unique selling points: Explains how patents can be exploited and enforced by reference to the most recent UK and EPO case law Identifies and discusses the different patent law issues that can arise in specific industrial sectors Full tabulation of all English patent validity and infringement decisions given after full trial since 1997 Addresses wider public policy aspects of patents and their economic significance, as well as past and likely future trends in the field, both in Europe and internationally The following relevant developments are included: The new UK law as to infringement by equivalents following *Actavis v Lilly* (UKSC 2017) The degree to which new types of plant, produced by using certain modern biotechnological techniques, can be patented in the light of the exclusion for 'products obtained by essentially biological processes' and the ongoing controversy as to this between the EPO, the EPO Boards of Appeal and the EU The developing case law in the UK and the EPO on plausibility in the context of insufficiency and obviousness *The Unjustified Threats Act 2017* and other procedural developments, such as those involving Arrow type declarations of obviousness Developments in standards related patent litigation, as in *Unwired Planet v Huawei* (Patents Court 2017, CA 2018) *Interactive Mobile Communication Technologies and Learning* John Wiley & Sons

The straightforward guide to the new Canon EOS Rebel T2i/550D Popular tech blog Gizmodo.com called the Canon EOS Rebel T2i/550D "an incredible camera – everything a first DSLR should be." With 1080p digital video capability and an 18 megapixel sensor that improves low-light shooting all for under \$900, the accolades are well-earned. And for less than \$30, you can learn how to maximize your digital photography experience! Packed with more than 300 color photos and 100 color screen captures throughout, this beginner book walks you through the camera's controls, features, and shooting modes. If you're new to the Canon EOS Rebel T2i/550D, this fun and friendly guide shifts you out of automatic mode and helps you shoot memorable digital photos. Aimed at first-time dSLR users looking for a guide that clearly and patiently explains the features and controls of the Canon EOS Rebel T2i/550D Explores the on-board controls and situational shooting Addresses using live view and playback modes Explains dialing in exposure and lighting controls Details how to edit, print, post online, and other ways to share images Spells out how to manipulate focus and color controls Canon EOS Rebel T2i/550D For Dummies delivers a straightforward look through the lens of your dSLR!

Advances in Human Factors and Ergonomics in Healthcare and Medical Devices Elsevier

Algorithms are a fundamental building block of artificial intelligence - and, increasingly, society - but our legal institutions have largely failed to recognize or respond to this reality. The Cambridge Handbook of the Law of Algorithms, which features contributions

from US, EU, and Asian legal scholars, discusses the specific challenges algorithms pose not only to current law, but also - as algorithms replace people as decision makers - to the foundations of society itself. The work includes wide coverage of the law as it relates to algorithms, with chapters analyzing how human biases have crept into algorithmic decision-making about who receives housing or credit, the length of sentences for defendants convicted of crimes, and many other decisions that impact constitutionally protected groups. Other issues covered in the work include the impact of algorithms on the law of free speech, intellectual property, and commercial and human rights law.

Handbook of Porous Carbon Materials Edward Elgar Publishing

Pregnancy, childbirth, childhood, adolescence, and aging can be beset with adverse changes in psychobiology and behavior. Handbook of Lifespan Cognitive Behavioral Therapy: Childhood, Adolescence, Pregnancy, Adulthood, and Aging will better readers' understanding of a variety of conditions and the applicability of CBT therapy as a treatment. Featuring chapters on postnatal anxiety and depression, insomnia, and dysmorphia, the book discusses in detail the use of cognitive behavioral therapies in the treatment of these issues affecting individuals at the start and end of their lives. With expert authors from the clinical field, the book has applicability for behavioral scientists, psychologists, cognitive and behavioral neuroscientists, and anyone working to better understand and treat using cognitive behavioral therapies. - Summarizes cognitive behavioral therapies for a variety of conditions - Contains chapter abstracts, practice and procedures, application to other areas, key facts, dictionary of terms, and summary points - Covers anxiety, depression, insomnia, and autism - Includes conditions in pregnancy, childbirth, children, and adolescence

Android Hacker's Handbook Springer

Universal V-Ray Settings This page provides a tutorial on universal settings for V-Ray that work for most still images. Overview The "universal" settings comprise a set of settings that work very well for still images in many situations and are the default for V-Ray Next. Please note that these settings are not optimal, in the sense that with enough tweaking, you can probably get similar quality with faster render times. The beauty of these settings, though, is that they require almost no tweaking, and you are guaranteed to get a good result in the end. The advantages of these settings are: o very little parameters for controlling render quality vs. speed o works for a very large number of scenes o produces high-quality results With the Progressive Image Sampler, the default Render time (min) is set to 1.0, which might be insufficient for some scenes. You can reset this to 0.0 min and rendering will continue until the Noise threshold is reached. Setting the V-Ray Renderer 1. Set V-Ray as the current rendering engine (with the default V-Ray settings). 2. The default settings are optimized to work universally, so it is recommended to keep them: Progressive image sampler with 100 Max. subdivs and 1 Min. subdivs; GI enabled, using Brute Force as Primary GI engine and Light Cache as Secondary GI engine. 3. You can further refine the noise levels from the Progressive Image sampler rollout by adjusting the Noise Threshold and placing a 0 value for the Render time (min). 4. You can control the amount of AA vs shading samples (for materials/lights/GI) using the Min shading rate parameter in the Image Sampler rollout but the default value is optimised to work well for the majority of scenes.

Handbook of Materials Modeling Graphic Communications Group

One procedural misstep in patent interference practice can put an invention at risk. Patent Interference Practice Handbook is the only book that leads you step by step through proper procedure at every stage of the interference process, before and after declaration. Covering practice before the U.S. Patent Office, the District Courts and the Court of Appeals for the Federal Circuit, this intensely practical guide shows you exactly how to: Assess elements such as anticipation, use or sale, obviousness, abandonment, suppression, concealment Establish patentability Determine priority Meet reduction-to-practice standards Meet all burden of proof requirements Avoid export license violations File preliminary statements and motions Bring civil actions or appeals after interference. At every stage of his p

Daily Graphic Bloomsbury Publishing

This handbook provides an overarching view of cyber security and digital forensic challenges related to big data and IoT environment, prior to reviewing existing data mining solutions and their potential application in big data context, and existing authentication and access control for IoT devices. An IoT access control scheme and an IoT forensic framework is also presented in this book, and it explains how the IoT forensic framework can be used to guide investigation of a popular cloud storage service. A distributed file system forensic approach is also presented, which is used to guide the investigation of Ceph. Minecraft, a Massively Multiplayer Online Game, and the Hadoop distributed file system environment are also forensically studied and their findings reported in this book. A forensic IoT source camera identification algorithm is introduced, which uses the camera's sensor pattern noise from the captured image. In addition to the IoT access control and forensic frameworks, this handbook covers a cyber defense triage process for nine advanced persistent threat (APT) groups targeting IoT

infrastructure, namely: APT1, Molerats, Silent Chollima, Shell Crew, NetTraveler, ProjectSauron, CopyKittens, Volatile Cedar and Transparent Tribe. The characteristics of remote-controlled real-world Trojans using the Cyber Kill Chain are also examined. It introduces a method to leverage different crashes discovered from two fuzzing approaches, which can be used to enhance the effectiveness of fuzzers. Cloud computing is also often associated with IoT and big data (e.g., cloud-enabled IoT systems), and hence a survey of the cloud security literature and a survey of botnet detection approaches are presented in the book. Finally, game security solutions are studied and explained how one may circumvent such solutions. This handbook targets the security, privacy and forensics research community, and big data research community, including policy makers and government agencies, public and private organizations policy makers. Undergraduate and postgraduate students enrolled in cyber security and forensic programs will also find this handbook useful as a reference.

Intelligent Systems IGI Global

The two-volume set LNAI 12319 and 12320 constitutes the proceedings of the 9th Brazilian Conference on Intelligent Systems, BRACIS 2020, held in Rio Grande, Brazil, in October 2020. The total of 90 papers presented in these two volumes was carefully reviewed and selected from 228 submissions. The contributions are organized in the following topical section: Part I: Evolutionary computation, metaheuristics, constraints and search, combinatorial and numerical optimization; neural networks, deep learning and computer vision; and text mining and natural language processing. Part II: Agent and multi-agent systems, planning and reinforcement learning; knowledge representation, logic and fuzzy systems; machine learning and data mining; and multidisciplinary artificial and computational intelligence and applications. Due to the Corona pandemic BRACIS 2020 was held as a virtual event.

Mathematical Aspects of Discontinuous Galerkin Methods Springer Nature

This new edition is a comprehensive and practical guide to European patent law – a 'ius commune'. The book highlights the areas of consistency and difference between the most influential European patent law jurisdictions: the European Patent Office, England and Wales, France, Germany, and the Netherlands. The book also draws insights from further afield, with contributions from other, very active, patent jurisdictions, including Italy, Sweden, Denmark, and Switzerland. Uniquely, the book addresses European patent law by subject matter area, assessing the key national and EPO approaches together rather than nation by nation. Each chapter outlines the common ground between the national approaches and provides a guide for the possible application of European patent law in national courts and the UPC in the future. In addition to featuring content on new countries, the second edition includes new chapters dedicated to the substantive aspects of FRAND, declarations, and evidence. There is also an expanded commentary on construction, including common terms used in patent claims. A must-read for anyone working in the field of European patent law.

American Civil Engineers' Handbook Serdar Hakan DÜZGÖREN

This book introduces the basic ideas to build discontinuous Galerkin methods and, at the same time, incorporates several recent mathematical developments. The presentation is to a large extent self-contained and is intended for graduate students and researchers in numerical analysis. The material covers a wide range of model problems, both steady and unsteady, elaborating from advection-reaction and diffusion problems up to the Navier-Stokes equations and Friedrichs' systems. Both finite element and finite volume viewpoints are exploited to convey the main ideas underlying the design of the approximation. The analysis is presented in a rigorous mathematical setting where discrete counterparts of the key properties of the continuous problem are identified. The framework encompasses fairly general meshes regarding element shapes and hanging nodes. Salient implementation issues are also addressed.

Graphic Showbiz Springer Science & Business Media

Standalone Photovoltaic (PV) Systems for Disaster Relief and Remote Areas explores the increased demand for energy, including clean energy alternatives and the ways that solar energy is fast becoming a vital source for meeting peak demand, a solution for energy demand in disaster and remote areas, and a viable source to meet emerging energy security needs. The book provides a detailed overview of PV systems and applications for disaster and remote areas, and includes a guide on how to provide electricity during outages, along with important discussions on the need for increasing the resilience of the grid. The differences and requirements for standalone, mobile, and portable PV systems are discussed, along with how systems can be deployed, transported, and used in remote areas. In addition, the book discusses the use of solar PV systems to create environmentally friendly power systems for remote communities that can be operated independently, also comparing the costs, emissions, and practical applications of other technologies. - Types of natural disasters, their effect on peoples' lives, on world economy, impact on electric grid and costs of power outages - Energy Needs in the aftermath of disasters and remote areas both in developed and developing Countries, including how PV systems can provide electricity affordably, with resilience and reducing grid impact by way of community solar and solar microgrid - Detailed description of the types and components of standalone photovoltaic systems, modeling and simulation and performance analysis - New initiatives, programs and case studies for providing solar-generated electricity to low-income people both in the United States and the developing world at low cost - Examples of assembling one's own PV module and dye-sensitized solar cells, results, databases and industry standards

Research Handbook on the Law of Virtual and Augmented Reality

Corwin Press

IT changes everyday's life, especially in education and medicine. The goal of ITME 2014 is to further explore the theoretical and practical issues of Ubiquitous Computing Application and Wireless Sensor Network. It also aims to foster new ideas and collaboration between researchers and practitioners. The organizing committee is soliciting unpublished papers for the main conference and its special tracks.