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Universal Access in Human-Computer Interaction: Design for All and Accessibility Practice 8th International Conference, UAHCI 2014, Held as Part of HCI International 2014, Heraklion, Crete, Greece, June 22-27, 2014, Proceedings, Part IV *Springer* The four-volume set LNCS 8513-8516 constitutes the refereed proceedings of the 8th International Conference on Universal Access in Human-Computer Interaction, UAHCI 2014, held as part of the 16th International Conference on Human-Computer Interaction, HCII 2014, held in Heraklion, Crete, Greece in June 2014, jointly with 14 other thematically similar conferences. The total of 1476 papers and 220 posters presented at the HCII 2014 conferences was carefully reviewed and selected from 4766 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The total of 251 contributions included in the UAHCI proceedings were carefully reviewed and selected for inclusion in this four-volume set. The 60 papers included in this volume are organized in the following topical sections: web accessibility; design for all in the built environment; global access infrastructures and user experiences in universal access. **Chemical Engineering Design SI edition** *Elsevier* Chemical Engineering Design is one of the best-known and most widely adopted texts available for students of chemical engineering. It completely covers the standard chemical engineering final year design course, and is widely used as a graduate text. The hallmarks of this renowned book have always been its scope, practical emphasis and closeness to the curriculum. That it is written by practicing chemical engineers makes it particularly popular with students who appreciate its relevance and clarity. Building on this position of strength the fifth edition covers the latest aspects of process design, operations, safety, loss prevention and equipment selection, and much more. Comprehensive in coverage, exhaustive in detail, and supported by extensive problem sets at the end of each chapter, this is a book that students will want to keep to hand as they enter their professional life. The leading chemical engineering design text with over 25 years of established market leadership to back it up; an essential resource for the compulsory design project all chemical engineering students take in their final year A complete and trusted teaching and learning package: the book offers a broader scope, better curriculum coverage, more extensive ancillaries and a more student-friendly approach, at a better price, than any of its competitors Endorsed by the Institution of Chemical Engineers, guaranteeing wide exposure to the academic and professional market in chemical and process engineering. **Innovations in Applied Artificial Intelligence 17th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, IEA/AIE 2004, Ottawa, Canada, May 17-20, 2004. Proceedings** *Springer Science & Business Media* This book constitutes the refereed proceedings of the 17th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, IEA/AIE 2004, held in Ottawa, Canada, in May 2004. The 129 revised full papers presented were carefully reviewed and selected from 208 submissions. The papers are organized in topical sections on neural networks, bioinformatics, data mining, general applications, autonomous agents, intelligent systems, knowledge processing and NLP, intelligent user interfaces, evolutionary computing, fuzzy logic, human-roboter interaction, computer vision and image processing, machine learning and case-based reasoning, heuristic search, security, Internet applications, planning and scheduling, constraint satisfaction, e-learning, expert systems, applications to design, machine learning, and image processing. **Industrial Ventilation A Manual of Recommended Practice for Design, 29th Edition Annual Dynamics of Daylight Variability and Contrast A Simulation-Based Approach to Quantifying Visual Effects in Architecture** *Springer Science & Business Media* Daylight is a dynamic source of illumination in architectural space, creating diverse and ephemeral configurations of light and shadow within the built environment. Perceptual qualities of daylight, such as contrast and temporal variability, are essential to our understanding of both material and visual effects in architecture. Although spatial contrast and light variability are fundamental to the visual experience of architecture, architects still rely primarily on intuition to evaluate their designs because there are few metrics that address these factors. Through an analysis of contemporary architecture, this work develops a new typological language that categorizes architectural space in terms of contrast and temporal variation. This research proposes a new family of metrics that quantify the magnitude of contrast-based visual effects and time-based variation within daylit space through the use of time-segmented daylight renderings to provide a more holistic analysis of daylight performance. **Writing and Speaking in the Technology Professions A Practical Guide** *John Wiley & Sons* An updated edition of the classic guide to technical communication Consider that 20 to 50 percent of a technology professional's time is spent communicating with others. Whether writing a memo, preparing a set of procedures, or making an oral presentation, effective communication is vital to your professional success. This anthology delivers concrete advice from the foremost experts on how to communicate more effectively in the workplace. The revised and expanded second edition of this popular book completely updates the original, providing authoritative guidance on communicating via modern technology in the contemporary work environment. Two new sections on global communication and the Internet address communicating effectively in the context of increased e-mail and web usage. As in the original, David Beer's Second Edition discusses a variety of approaches, such as: * Writing technical documents that are clear and effective * Giving oral presentations more confidently * Using graphics and other visual aids judiciously * Holding productive meetings * Becoming an effective listener The new edition also includes updated articles on working with others to get results and on giving directions that work. Each article is aimed specifically at the needs of engineers and others in the technology professions, and is written by a practicing engineer or a technical communicator. Technical engineers, IEEE society members, and technical writing teachers will find this updated edition of David Beer's classic Writing and Speaking in the Technology Professions an invaluable guide to successful communication. **General Issue** *IIED* **Applied Photovoltaics** *Earthscan* The rich tapestry of life on our planet is the outcome of over 3.5 billion years of evolutionary history, shaped by natural processes and, increasingly, by the influence of humans. Out of an estimated 13 million species, about 1.75 million have so far bee **Pupil Book Study An Evidence-Informed Guide to Help Quality Assure the Curriculum** *John Catt Educational* Pupil Book Study is a window into the ‘lived experience’ of pupils, as opposed to just the observed experience. It is also a mirror in which to reflect professional practice and identify what helps learning, and what hinders it by outlining clear and coherent structures in which to talk with pupils and look at their books.

Pupil Book Study gives headteachers, senior and middle leaders a systematic toolkit to evaluate the impact of the curriculum through studying teaching and learning. Infused with cognitive science research and evidence-informed practice, it offers schools the architecture for excellence; helping remove the risk of making assumptions.

Pupil Book Study is a guide for schools that offers 7 specific and fully exemplified areas to focus quality assurance systems. The keystone between teaching, learning and the curriculum, Pupil Book Study offers schools the tools to explain why things are as they are and presents solutions to the areas that limit or hinder progress.

Schools report that Pupil Book Study has been some of the most powerful and impactful work they have ever undertaken, resulting in positive change. In November 2020, Pupil Book Study was shared with the Deputy Director, Senior HMI and Policy makers at Ofsted. **REST: From Research to Practice** *Springer Science & Business Media* This volume provides an overview and an understanding of REST (Representational State Transfer). Discussing the constraints of REST the book focuses on REST as a type of web architectural style. The focus is on applying REST beyond Web applications (i.e., in enterprise environments), and in reusing established and well-understood design patterns when doing so. The reader will be able to understand how RESTful systems can be designed and deployed, and what the results are in terms of benefits and challenges encountered in the process. Since REST is relatively new as an approach for designing Web Services, the more advanced part of the book collects a number of challenges to some of the assumptions and constraints of REST, and looks at current research work on how REST can be extended and applied to scenarios that often are considered not to be a good match for REST. This work will help readers to reach a deeper understanding of REST on a practical as well as on an advanced level. **Design and Construction of High-Performance Homes Building Envelopes, Renewable Energies and Integrated Practice** *Routledge* Both professionals and students are increasingly committed to achieving high-performance metrics in the design, construction and operation of residential buildings. This book responds to this demand by offering a comprehensive guide which features: architectural innovations in building skin technologies which make lighter more transparent buildings high performing; energy-free architectural design principles and advances in building-integrated photovoltaics; essential engineering principles, controls and approaches to simulation for achieving net zero; the advantages of integrated design in residential construction and the challenges and opportunities it engenders; detailed case studies of innovative homes which have incorporated low-energy design solutions, new materials, alternative building assemblies, digital fabrication, integrated engineering systems and operational controls. Divided into four parts, the book discusses the requisite AEC (Architecture, Engineering and Construction) knowledge needed when building a high-performance home. It also communicates this information across four case studies, which provide the reader with a thorough overview of all aspects to be considered in the design and construction of sustainable homes. With contributions from experts in the field, the book provides a well-rounded and multi-faceted approach. This book is essential reading for students and professionals in design, architecture, engineering (civil, mechanical and electrical), construction and energy management. **Mobile Persuasion Design Changing Behaviour by Combining Persuasion Design with Information Design** *Springer* Mobile Persuasion Design presents ten conceptual design projects (or ‘Machines’) for new mobile application's (smartphone or tablet with Web portals) that combine theories of persuasion and information design to change people's behaviour. Areas such as the environment, health, learning and happiness are explored, looking at ways of marrying people's wants and needs to make simple, usable and desirable mobile applications. A user-centred design approach has been used, adopting user experience (UX) methods, in-depth case studies and market analysis to see what a modern user needs from their mobile application. By applying concepts like persuasion theory and information architecture, try to find ways to satisfy these needs and positively change their user habits. In 2011, the Green, Health, and Money Machines won design awards in an international competition hosted by the International Institute for Information Design, Vienna. **29th Annual Frontiers in Education Conference Designing the Future of Science and Engineering Education: Conference Proceedings Critical Design in Context History, Theory, and Practice** *Bloomsbury Publishing* Critical Design is becoming an increasingly influential discipline, affecting policy and practice in a range of fields. Matt Malpass's book is the first to introduce critical design as a field, providing a history of the discipline, outlining its key influences, theories and approaches, and explaining how critical design can work in practice through a range of contemporary examples. Critical Design moves away from traditional approaches that limit design's role to the production of profitable objects, focusing instead on a practice that is interrogative, discursive and experimental. Using a wide range of examples from contemporary practice, and drawing on interviews with key practitioners, Matt Malpass provides an introduction to critical design practice and a manifesto for how a radical and unorthodox practice might provide design answers in an age of austerity and ecological crisis. **CompTIA Security+ All in One Training Guide with Exam Practice Questions & Labs: Exam SY0-501** *IPSpecialist* About this Workbook This workbook covers all the

information you need to pass the CompTIA Security+ Exam SY0-501 exam. The workbook is designed to take a practical approach to learn with real-life examples and case studies. ⬜Covers complete CompTIA Security+ Exam SY0-501 blueprint ⬜Summarized content ⬜Case Study based approach ⬜Ready to practice labs on VM ⬜100% pass guarantee ⬜Mind maps ⬜Exam Practice Questions CompTIA Certifications CompTIA is a performance-based certification that helps you develop a career in IT fundament by approving the hands-on skills required to troubleshoot, configure, and manage both wired and wireless networks. CompTIA certifications help individuals build exceptional in Information Technology and enable organizations to form a skilled and confident staff. CompTIA certifications have four IT certification series that different test knowledge standards-from entry level to expert level. CompTIA offers certification programs at the core level to professional level, which begins with the core IT fundamentals, infrastructure, cybersecurity leads to the professional level. About IPSpecialist IPSPECIALIST LTD. IS COMMITTED TO EXCELLENCE AND DEDICATED TO YOUR SUCCESS Our philosophy is to treat our customers like family. We want you to succeed, and we are willing to do anything possible to help you make it happen. We have the proof to back up our claims. We strive to accelerate billions of careers with great courses, accessibility, and affordability. We believe that continuous learning and knowledge evolution are most important things to keep re-skilling and up-skilling the world. Planning and creating a specific goal is where IPSpecialist helps. We can create a career track that suits your visions as well as develop the competencies you need to become a professional Network Engineer. We can also assist you with the execution and evaluation of proficiency level based on the career track you choose, as they are customized to fit your specific goals. We help you STAND OUT from the crowd through our detailed IP training content packages. **Communities of Practice - Vol. 2 Creating Learning Environments for Educators** *IAP* The aim of this set of books is to combine the best of current academic research into the use of Communities of Practice in education with "hands on" practitioner experience in order to provide teachers and academics with a convenient source of guidance and an incentive to work with and develop in their own Communities of Practice. This set of books is divided into two volumes: volume 1 deals principally with the issues found in colocated Communities of Practice, while volume 2 deal principally with distributed Communities of Practice" **Immunisation against infectious diseases** *The Stationery Office* This is the third edition of this publication which contains the latest information on vaccines and vaccination procedures for all the vaccine preventable infectious diseases that may occur in the UK or in travellers going outside of the UK, particularly those immunisations that comprise the routine immunisation programme for all children from birth to adolescence. It is divided into two sections: the first section covers principles, practices and procedures, including issues of consent, contraindications, storage, distribution and disposal of vaccines, surveillance and monitoring, and the Vaccine Damage Payment Scheme; the second section covers the range of different diseases and vaccines. **Visioning and Engineering the Knowledge Society - A Web Science Perspective Second World Summit on the Knowledge Society, WSKS 2009, Chania, Crete, Greece, September 16-18, 2009. Proceedings** *Springer* It is a great pleasure to share with you the Springer LNCS proceedings of the Second World Summit on the Knowledge Society, WSKS 2009, organized by the Open - search Society, Ngo, http://www.open-knowledge-society.org, and held in Samaria Hotel, in the beautiful city of Chania in Crete, Greece, September 16–18, 2009. The 2nd World Summit on the Knowledge Society (WSKS 2009) was an inter- tional scientific event devoted to promoting dialogue on the main aspects of the knowledge society towards a better world for all. The multidimensional economic and social crisis of the last couple of years has brought to the fore the need to discuss in depth new policies and strategies for a human centric developmental processes in the global context. This annual summit brings together key stakeholders involved in the worldwide development of the knowledge society, from academia, industry, and government, including policy makers and active citizens, to look at the impact and prospects of - formation technology, and the knowledge-based era it is creating, on key facets of l- ing, working, learning, innovating, and collaborating in today's hyper-complex world. The summit provides a distinct, unique forum for cross-disciplinary fertilization of research, favoring the dissemination of research on new scientific ideas relevant to - ternational research agendas such as the EU (FP7), OECD, or UNESCO. We focus on the key aspects of a new sustainable deal for a bold response to the multidimensional crisis of our times. **Machinery's Handbook A Reference Book for the Mechanical Engineer, Designer, Manufacturing Engineer, Draftsman, Toolmaker, and Machinist Cache and Memory Hierarchy Design A Performance-directed Approach** *Morgan Kaufmann* A widely read and authoritative book for hardware and software designers. This innovative book exposes the characteristics of performance-optimal single- and multi-level cache hierarchies by approaching the cache design process through the novel perspective of minimizing execution time. **Security Designs for the Cloud, IoT, and Social Networking** *John Wiley & Sons* Security concerns around the rapid growth and variety of devices that are controlled and managed over the Internet is an immediate potential threat to all who own or use them. This book examines the issues surrounding these problems, vulnerabilities, what can be done to solve the problems, investigating the roots of the problems and how programming and attention to good security practice can combat the threats today that are a result of lax security processes on the Internet of Things, cloud computing and social media. **CompTIA Security+ Exam Practice Questions With Explainations: Exam: SY0-501** *IPSpecialist* Practice Questions IP Specialist's Practice Questions are dedicately designed for certification exam perspective. The collection of these questions from our technology workbooks are prepared to keep the exam blueprint in mind covering not only important but necessary topics as well. It's an ideal document to practice and revise your certification. CompTIA Certifications CompTIA is a performance-based certification that helps you develop a career in IT fundament by approving the hands-on skills required to troubleshoot, configure, and manage both wired and wireless networks. CompTIA certifications help individuals build exceptional in Information Technology and enable organizations to form a skilled and confident staff. CompTIA certifications have four IT certification series that different test knowledge standards-from entry level to expert level. CompTIA offers certification programs at the core level to professional level, which begins with the core IT fundamentals, infrastructure, cybersecurity leads to the professional level. About IPSpecialist IPSPECIALIST LTD. IS COMMITTED TO EXCELLENCE AND DEDICATED TO YOUR SUCCESS Our philosophy is to treat our customers like family. We want you to succeed, and we are willing to do anything possible to help you make it happen. We have the proof to back up our claims. We strive to accelerate billions of careers with great courses, accessibility, and affordability. We believe that continuous learning and knowledge evolution are most important things to keep re-skilling and up-skilling the world. Planning and creating a specific goal is where IPSpecialist helps. We can create a career track that suits your visions as well as develop the competencies you need to become a professional Network Engineer. We can also assist you with the execution and evaluation of proficiency level based on the career track you choose, as they are customized to fit your specific goals. We help you STAND OUT from the crowd through our detailed IP training content packages. **Technology and Practice of Passwords International Conference on Passwords, PASSWORDS'14, Trondheim, Norway, December 8-10, 2014, Revised Selected Papers** *Springer* This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Passwords, PASSWORDS 2014, held in Trondheim, Norway, in December 2014. The 8 revised full papers presented together with 2 revised short papers were carefully reviewed and selected from 30 initial submissions. The papers are organized in topical sections on hash functions, usability, analyses and new techniques. **Los Angeles Magazine** Los Angeles magazine is a regional magazine of national stature. Our combination of award-winning feature writing, investigative reporting, service journalism, and design covers the people, lifestyle, culture, entertainment, fashion, art and architecture, and news that define Southern California. Started in the spring of 1961, Los Angeles magazine has been addressing the needs and interests of our region for 48 years. The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian. **Strengthening Forensic Science in the United States A Path Forward** *National Academies Press* Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators. **Consultants and Consulting Organizations Directory A Reference Guide to More Than 26,000 Firms and Individuals Engaged in Consultation for Business, Industry, and Government Ultra-Low Energy Wireless Sensor Networks in Practice Theory, Realization and Deployment** *John Wiley & Sons* Finally a book on Wireless Sensor Networks that covers real world applications and contains practical advice! Kuorilehto et al. have written the first practical guide to wireless sensor networks. The authors draw on their experience in the development and field-testing of autonomous wireless sensor networks (WSNs) to offer a comprehensive reference on fundamentals, practical matters, limitations and solutions of this fast moving research area. Ultra Low Energy Wireless Sensor Networks in Practice: Explains the essential problems and issues in real wireless sensor networks, and analyzes the most promising solutions. Provides a comprehensive guide to applications, functionality, protocols, and algorithms for WSNs. Offers practical experiences from new applications and their field-testing, including several deployed networks. Includes simulations and physical measurements for energy consumption, bit rate, latency, memory, and lifetime. Covers embedded resource-limited operating systems, middleware and application software. Ultra Low Energy Wireless Sensor Networks in Practice will prove essential reading for Research Scientists, advanced students in Networking, Electrical Engineering and Computer Science as well as Product Managers and Design Engineers. **Applied Photovoltaics** *Routledge* The new edition of this thoroughly considered textbook provides a reliable, accessible and comprehensive guide for students of photovoltaic applications and renewable energy engineering. Written by a group of award-winning authors it is brimming with information and is carefully designed to meet the needs of its readers. Along with exercises and references at the end of each chapter, it features a set of detailed technical appendices that provide essential equations, data sources and standards. The new edition has been fully updated with the latest information on photovoltaic cells, modules, applications and policy. Starting from basics with 'The Characteristics of Sunlight' the reader is guided step-by-step through semiconductors and p-n junctions; the behaviour of solar cells; cell properties and design; and PV cell interconnection and module fabrication. The book covers stand-alone photovoltaic systems; specific purpose photovoltaic systems; remote area power supply systems; grid-connected photovoltaic systems and water pumping. Applied Photovoltaics is highly illustrated and very accessible, providing the reader with all the information needed to start working with photovoltaics. **Site Planning International Practice** *MIT Press* A comprehensive, state-of-the-art guide to site planning, covering planning processes, new technologies, and sustainability, with extensive treatment of practices in rapidly urbanizing countries. Cities are built site by site. Site planning—the art and science of designing settlements on the land—encompasses a range of activities undertaken by architects, planners, urban designers, landscape architects, and engineers. This book offers a comprehensive, up-to-date guide to site planning that is global in scope. It covers planning processes and standards, new technologies, sustainability, and cultural context, addressing the roles of all participants and stakeholders and offering extensive treatment of practices in rapidly urbanizing countries. Kevin Lynch and Gary Hack wrote the classic text on the subject, and this book takes up where the earlier book left off. It can be used as a textbook and will be an essential reference for practitioners. Site Planning consists of forty self-contained modules, organized into five parts: The Art of Site Planning, which presents site planning as a shared enterprise; Understanding Sites, covering the components of site analysis; Planning Sites, covering the processes involved; Site Infrastructure, from transit to waste systems; and Site Prototypes, including housing, recreation, and mixed use. Each module offers a brief introduction, covers standards or approaches, provides examples, and presents innovative practices in sidebars. The book is lavishly illustrated with 1350 photographs, diagrams, and examples of practice. **Technology learning in Contemporary World** *Krishna Publication House* **Advances in Additive Manufacturing, Modeling Systems and 3D Prototyping Proceedings of the AHFE 2019 International Conference on Additive Manufacturing, Modeling Systems and 3D Prototyping, July 24-28, 2019, Washington D.C., USA** *Springer* This book discusses the latest advances in digital modeling systems (DMSs) and additive manufacturing (AM) technologies. It covers applications of networked technologies, ubiquitous computing, new materials and hybrid production systems, discussing how they are changing the processes of conception, modeling and production of products and systems of product. The book emphasizes ergonomic and sustainability issues, as well as timely topics such as DMSs and AM in Industry 4.0, DMSs and AM in developing countries, DMSs and AM in extreme environments, thus highlighting future trends and promising scenarios for further developing those technologies. Based on the AHFE 2019 International Conference on Additive Manufacturing, Modeling Systems and 3D Prototyping, held on July 24-28, 2019, in Washington D.C., USA, the book is intended as source of inspiration for researchers, engineers and stakeholders, and to foster interdisciplinary and international collaborations between them. **Introduction to Construction Management** *Routledge* Management in the construction industry is a complex task, with team members often undertaking hazardous work,

complying with stacks of regulations and legal requirements, and under the constant threat of plans going awry, however there is no need for all construction management textbooks to be so complicated. Starting with a general overview of the industry, Introduction to Construction Management is the beginner's guide to key concepts, terms, processes and practices associated with modern construction management in the UK. Supported by diagrams, illustrations and case studies, this book explores construction management from a variety of perspectives, including: Production management Commercial management Quality management Health and Safety management Environmental management Also incorporated are important industry trends including sustainability, corporate social responsibility, and the advent of BIM. This is the most approachable text available for anyone starting to learn about construction management, at HNC/HND, FdSc, or BSc level. **Los Angeles Magazine** Los Angeles magazine is a regional magazine of national stature. Our combination of award-winning feature writing, investigative reporting, service journalism, and design covers the people, lifestyle, culture, entertainment, fashion, art and architecture, and news that define Southern California. Started in the spring of 1961, Los Angeles magazine has been addressing the needs and interests of our region for 48 years. The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian. **Systems, Software and Services Process Improvement 29th European Conference, EuroSPI 2022, Salzburg, Austria, August 31 – September 2, 2022, Proceedings** *Springer Nature* This volume constitutes the refereed proceedings of the 29th European Conference on Systems, Software and Services Process Improvement, EuroSPI 2022, held in Salzburg, Austria, in August-September 2022. The 49 full papers and 8 short papers presented were carefully reviewed and selected from 110 submissions. The papers are organized according to the following topical sections: SPI and emerging and multidisciplinary approaches to software engineering; digitalisation of industry, infrastructure and e-mobility; SPI and good/bad SPI practices in improvement; SPI and functional safety and cybersecurity; SPI and agile; SPI and standards and safety and security norms; SPI and team skills and diversity; SPI and recent innovations; virtual reality and augmented reality. **Ernst Denert Award for Software Engineering 2019 Practice Meets Foundations** *Springer Nature* This open access book provides an overview of the dissertations of the five nominees for the Ernst Denert Award for Software Engineering in 2019. The prize, kindly sponsored by the Gerlind & Ernst Denert Stiftung, is awarded for excellent work within the discipline of Software Engineering, which includes methods, tools and procedures for better and efficient development of high quality software. An essential requirement for the nominated work is its applicability and usability in industrial practice. The book contains five papers describing the works by Sebastian Baltes (U Trier) on Software Developers'Work Habits and Expertise, Timo Greifenberg's thesis on Artefaktbasierte Analyse modellgetriebener Softwareentwicklungsprojekte, Marco Konersmann's (U Duisburg-Essen) work on Explicitly Integrated Architecture, Marija Selakovic's (TU Darmstadt) research about Actionable Program Analyses for Improving Software Performance, and Johannes Späth's (Paderborn U) thesis on Synchronized Pushdown Systems for Pointer and Data-Flow Analysis – which actually won the award. The chapters describe key findings of the respective works, show their relevance and applicability to practice and industrial software engineering projects, and provide additional information and findings that have only been discovered afterwards, e.g. when applying the results in industry. This way, the book is not only interesting to other researchers, but also to industrial software professionals who would like to learn about the application of state-of-the-art methods in their daily work. **The Palgrave Handbook of Global Health Data Methods for Policy and Practice** *Springer* This handbook compiles methods for gathering, organizing and disseminating data to inform policy and manage health systems worldwide. Contributing authors describe national and international structures for generating data and explain the relevance of ethics, policy, epidemiology, health economics, demography, statistics, geography and qualitative methods to describing population health. The reader, whether a student of global health, public health practitioner, programme manager, data analyst or policymaker, will appreciate the methods, context and importance of collecting and using global health data. **Handbook of Validation in Pharmaceutical Processes, Fourth Edition** *CRC Press* Revised to reflect significant advances in pharmaceutical production and regulatory expectations, Handbook of Validation in Pharmaceutical Processes, Fourth Edition examines and blueprints every step of the validation process needed to remain compliant and competitive. This book blends the use of theoretical knowledge with recent technological advancements to achieve applied practical solutions. As the industry's leading source for validation of sterile pharmaceutical processes for more than 10 years, this greatly expanded work is a comprehensive analysis of all the fundamental elements of pharmaceutical and bio-pharmaceutical production processes. Handbook of Validation in Pharmaceutical Processes, Fourth Edition is essential for all global health care manufacturers and pharmaceutical industry professionals. Key Features: Provides an in-depth discussion of recent advances in sterilization Identifies obstacles that may be encountered at any stage of the validation program, and suggests the newest and most advanced solutions Explores distinctive and specific process steps, and identifies critical process control points to reach acceptable results New chapters include disposable systems, combination products, nano-technology, rapid microbial methods, contamination control in non-sterile products, liquid chemical sterilization, and medical device manufacture **ESL Models and their Application Electronic System Level Design and Verification in Practice** *Springer Science & Business Media* This book arises from experience the authors have gained from years of work as industry practitioners in the field of Electronic System Level design (ESL). At the heart of all things related to Electronic Design Automation (EDA), the core issue is one of models: what are the models used for, what should the models contain, and how should they be written and distributed. Issues such as interoperability and tool transportability become central factors that may decide which ones are successful and those that cannot get sufficient traction in the industry to survive. Through a set of real examples taken from recent industry experience, this book will distill the state of the art in terms of System-Level Design models and provide practical guidance to readers that can be put into use. This book is an invaluable tool that will aid readers in their own designs, reduce risk in development projects, expand the scope of design projects, and improve developmental processes and project planning. **Formal Methods and Software Engineering 14th International Conference on Formal Engineering Methods, ICFEM 2012, Kyoto, Japan, November 12-16, 2012, Proceedings** *Springer* This book constitutes the refereed proceedings of the 14th International Conference on Formal Engineering Methods, ICFEM 2012, held in Kyoto, Japan, November 2012. The 31 revised full papers together with 3 invited talks presented were carefully reviewed and selected from 85 submissions. The papers address all current issues in formal methods and their applications in software engineering. They are organized in topical sections on concurrency, applications of formal methods to new areas, quantity and probability, formal verification, modeling and development methodology, temporal logics, abstraction and refinement, tools, as well as testing and runtime verification. **Vascular Medicine E-Book A Companion to Braunwald's Heart Disease** *Elsevier Health Sciences* Make the most of today's innovative medical therapies, advances in vascular imaging, and new drugs to improve your patients' cardiovascular health with Vascular Medicine, 2nd Edition. This comprehensive, clinically-focused volume in the Braunwald's Heart Disease family provides an in-depth, state-of-the-art review of all vascular diseases, with an emphasis on pathophysiology, diagnosis, and management - giving you the evidence-based guidance you need to make appropriate therapeutic decisions on behalf of your patients. Consult this title on your favorite e-reader with intuitive search tools and adjustable font sizes. Elsevier eBooks provide instant portable access to your entire library, no matter what device you're using or where you're located. Gain a state-of-the-art understanding of the pathophysiology, diagnosis, and management of arterial disease, venous disease, lymph dysfunction, connective tissue disease, vascular disease, and vascular manifestations of systemic disease. Benefit from the knowledge and experience of Dr. Mark A. Creager (editor of the Vascular Medicine society journal), Dr. Joshua A. Beckman, and Dr. Joseph Loscalzo, and benefit from their practice rationales for all of today's clinical therapies. Easily reference Braunwald's Heart Disease, 9th Edition for further information on topics of interest. Get up-to-date information on new combination drug therapies and management of chronic complications of hypertension. Learn the best methods for aggressive patient management and disease prevention to ensure minimal risk of further cardiovascular problems. Stay current with ACC/AHA and ECC guidelines and the best ways to implement them in clinical practice. Enhance your visual perspective with an all-new, full-color design throughout. Utilize behavior management as an integral part of treatment for your hypertensive and pre-hypertensive patients. Effectively manage special populations with chronic hypertensive disease, as well as hypertension and concomitant disease. Access the complete contents online and download images at www.expertconsult.com.