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Universal Design 2021: From Special to Mainstream Solutions Mar 27 2020 Universal Design is a process for creating an equitable and sustainable society. It is a concept committed to recognizing and accepting each individual's potential and characteristics, and promoting the realization of a built environment that does not stigmatize users, but enables everyone to participate fully in their community. This book presents 32 articles from the 5th International Conference on Universal Design (UD2021). Previous Universal Design conferences have been organized biennially, but the 2020 conference was postponed due to COVID-19 restrictions, and eventually held online from 9 - 11 June 2021. UD2021 brings together a multidisciplinary group of experts from around the world to share knowledge and best practice with the common goal of shaping the way we design; avoiding stereotyped or discriminatory views and solutions that could stigmatize particular groups of people. The articles are organized into chapters under seven broad themes: universal design and inclusive design; user experience and co-design; access to education and learning environment; web accessibility and usability of technology; architecture and the built environment; mobility and transport; and designing for older people. The current situation has highlighted not only the importance of web accessibility, the user-friendliness of interfaces and remote connections; during the last year, the importance and quality of our daily living environment, access to services and green space has also become ever more obvious. This book will be of particular interest to those working to enable all those with disabilities or impairments to live independently and participate fully in all aspects of life.
BoogarLists | Directory of Commercial Architects Jun 22 2022
Mobile and Handheld Computing Solutions for Organizations and End-Users May 21 2022 Mobile and Handheld Computing Solutions for Organizations and End-Users discusses a broad range of topics in order to advance handheld knowledge and apply the proposed methods to real-world issues for organizations and end users. This book brings together researchers and practitioners involved with mobile and handheld computing solutions useful for IT students, researchers, and scholars.
Readings in Computer Architecture Aug 24 2022 Offering a carefully reviewed selection of over 50 papers illustrating the breadth and depth of computer architecture, this text includes insightful introductions to guide readers through the primary sources.
Architecture, City, Environment Apr 27 2020 PLEA is a network of individuals sharing expertise in the arts, sciences, planning and design of the built environment. It serves as an international, interdisciplinary forum to promote discourse on environmental quality in architecture and planning. This 17th PLEA international conference addresses sustainable design with respect to architecture, city and environment at the turn of the millennium. The central aim of the conference is to explore the interrelationships and integration of architecture, city and environment. The Proceedings will be of interest to all those involved in bioclimatic design and the application of natural and innovative techniques to architecture and planning. The conference is organised by the Martin Centre for Architectural and Urban Studies, University of Cambridge and the Cambridge Programme for Industry, University of Cambridge.
Agile Processes in Software Engineering and Extreme Programming Dec 04 2020 The XP conference series established in 2000 was the first conference dedicated to agile processes in software engineering. The idea of the conference is to offer a unique setting for advancing the state of the art in the research and practice of agile processes. This year's conference was the ninth consecutive edition of this international event. The conference has grown to be the largest conference on agile software development outside North America. The XP conference enjoys being one of those conferences that truly brings practitioners and academics together. About 70% of XP participants come from industry and the number of academics has grown steadily over the years. XP is more of an experience rather than a regular conference. It offers several different ways to interact and strives to create a truly collaborative environment where new ideas and exciting findings can be presented and shared. For example, this year's open space session, which was "a conference within a conference", was larger than ever before. Agile software development is a unique phenomenon from several perspectives.
Simplified Engineering for Architects and Builders Jul 23 2022 For more than 60 years, a must-have Reference for the Design and Construction Trades This Ninth Edition of one of the all-time bestselling books on architecture provides a clear, accessible presentation of the engineering information that is essential for architects and builders. It offers a concise understanding of the structural design process, including information on structural analysis, materials, and systems. * Offers a highly readable and understandable approach to investigating and designing commonly used structures for ordinary buildings * Provides essential formulas for the solution of structural problems * Includes more than 200 simple, descriptive illustrations * Features updated code and material information * Covers wood, steel concrete, and masonry structures An unparalleled resource for students and young professional in architecture, construction, and civil engineering, Simplified Engineering for Architects and Builders, Ninth Edition boils structural engineering down to its essential and provides the simple design solutions that are used for the vast majority of buildings.
Web Information Systems and Technologies Jul 31 2020 This book contains the thoroughly refereed and revised best papers from the 9th International Conference on Web Information Systems and Technologies, WEBIST 2013, held in Aachen, Germany, in May 2013, organized by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC), and co-organized by the RWTH Aachen University. The 15 papers presented in this book were carefully reviewed and selected from 143 submissions. The papers were selected from those with the best reviews also taking into account the quality of their presentation at the conference. The papers are grouped into parts on Internet technology, Web interfaces and applications, society, e-business and e-government, Web intelligence, and mobile information systems.
Workshop Proceedings of the 9th International Conference on Intelligent Environments Jul 11 2021 Intelligent Environments (IE) play an increasingly important role in many areas of our lives, including education, healthcare and the domestic environment. The term refers to physical spaces incorporating pervasive computing technology used to achieve specific goals for the user, the environment or both. This book presents the proceedings of the workshops of the 9th International Conference on Intelligent Environments (IE '13), held in Athens, Greece, in July 2013. The workshops which were presented in the context of this conference range from

regular lectures to practical sessions. They provide a forum for scientists, researchers and engineers from both industry and academia to engage in discussions on newly emerging or rapidly evolving topics in the field. Topics covered in the workshops include artificial intelligence techniques for ambient intelligence; applications of affective computing in intelligent environments; smart offices and other workplaces; intelligent environment technology in education for creative learning; museums as intelligent environments; the application of intelligent environment technologies in the urban context for creating more sociable, intelligent cities and for constructing urban intelligence. IE can enrich user experience, better manage the environment's resources, and increase user awareness of that environment. This book will be of interest to all those whose work involves the application of intelligent environments.

Experimental Robotics IX Oct 14 2021 The International Symposium on Experimental Robotics (ISER) is a series of bi-annual meetings which are organized in a rotating fashion around North America, Europe and Asia/Oceania. The goal of ISER is to provide a forum for research in robotics that focuses on novelty of theoretical contributions validated by experimental results. The meetings are conceived to bring together, in a small group setting, researchers from around the world who are in the forefront of experimental robotics research. This unique reference presents the latest advances across the various fields of robotics, with ideas that are not only conceived conceptually but also verified experimentally. It collects contributions on the current developments and new directions in the field of experimental robotics, which are based on the papers presented at the Ninth ISER held in Singapore.

Design for Biocities May 29 2020 The Institute for Advanced Architecture of Catalonia (IAAC) calls its 9th Advanced Architecture Contest as a global reflection to rethink human settlements at a time when our natural environments and the human habitats are more clearly intertwined. We look to the model of Biocities, cities that follow the principles of ecological principles in order to promote life and biodiversity, to provide us with potential design solutions. How can we reimagine our cities as Biocities, capable of creating an ecologically attuned and reciprocal relationship with nature? This year's competition challenges students and professionals from all over the world to propose how to design urban spaces, cities, buildings, objects, or solutions of any scale, directed towards the transition to Biocities. The contest encourages participants to propose a design at any scale, anywhere in the world, that reflects different cultural, environmental, economic, or social conditions.

Intelligent System Solutions for Auto Mobility and Beyond Sep 20 2019 This book gathers papers from the 23rd International Forum on Advanced Microsystems for Automotive Applications (AMAA 2020) held online from Berlin, Germany, on May 26-27, 2020. Focusing on intelligent system solutions for auto mobility and beyond, it discusses in detail innovations and technologies enabling electrification, automation and diversification, as well as strategies for a better integration of vehicles into the networks of traffic, data and power. Further, the book addresses other relevant topics, including the role of human factors and safety issues in automated driving, solutions for shared mobility, as well as automated bus transport in rural areas. Implications of current circumstances, such as those generated by climate change, on the future development of auto mobility, are also analysed, providing researchers, practitioners and policy makers with an authoritative snapshot of the state-of-the-art, and a source of inspiration for future developments and collaborations.

The Dictionary of Architecture: R-S Feb 06 2021

Information Systems: Development, Research, Applications, Education May 09 2021 This book constitutes the refereed proceedings of the SIGSAND/PLAIS EuroSymposium 2016 titled Information Systems: Development, Research, Applications, Education, held in Gdansk and Sopot, Poland, on September 29, 2016. The objective of this symposium is to promote and develop high-quality research on all issues related to systems analysis and design (SAND). It provides a forum for SAND researchers and practitioners in Europe and beyond to interact, collaborate, and develop their field. The 14 papers presented in this volume were carefully reviewed and selected from 34 submissions. They are organized in topical sections on information systems development, information systems management, and information systems learning.

Knowledge, Information and Creativity Support Systems Oct 02 2020 This volume consists of a number of selected papers that were presented at the 9th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2014) in Limassol, Cyprus, after they were substantially revised and extended. The 26 regular papers and 19 short papers included in this proceedings cover all aspects of knowledge management, knowledge engineering, intelligent information systems, and creativity in an information technology context, including computational creativity and its cognitive and collaborative aspects.

An Approach for Guiding Developers to Performance and Scalability Solutions Oct 22 2019

Emerging Solutions for Future Manufacturing Systems Mar 19 2022 Industries and particularly the manufacturing sector have been facing difficult challenges in a context of socio-economic turbulence characterized by complexity as well as the speed of change in causal interconnections in the socio-economic environment. In order to respond to these challenges companies are forced to seek new technological and organizational solutions. In this context two main characteristics emerge as key properties of a modern automation system – agility and distribution. Agility because systems need not only to be flexible in order to adjust to a number of a-priori defined scenarios, but rather must cope with unpredictability. Distribution in the sense that automation and business processes are becoming distributed and supported by collaborative networks. Emerging Solutions for Future Manufacturing Systems includes the papers selected for the BASYS'04 conference, which was held in Vienna, Austria in September 2004 and sponsored by the International Federation for Information Processing (IFIP).

Interoperability and Open-Source Solutions for the Internet of Things Jan 17 2022 This book constitutes the thoroughly refereed post-conference proceedings of the International Workshop on Interoperability and Open-Source Solutions for the Internet of Things, FP7 OpenIot Project, held in Conjunction with SoftCOM 2014, in Split, Croatia, in September 2014. The 11 revised full papers presented together with the extended abstracts of 2 keynote talks were carefully reviewed and selected from numerous submissions during two rounds of reviewing and improvement. The papers are organized in topical sections on OpenIoT platform, open platforms and standards, and IoT Applications.

Trust Management IX Aug 12 2021 This book constitutes the refereed proceedings of the 9th IFIP WG 11.11 International Conference on Trust Management, IFIPTM 2015, held in Hamburg, Germany, in May 2015. The 10 revised full papers and 5 short papers presented were carefully reviewed and selected from 28 submissions. In addition, the book contains one invited paper and 5 papers from a special session on trusted cloud ecosystems. The papers cover a wide range of topics including trust and reputation and models thereof, the relationship between trust and security, socio-technical aspects of trust, reputation and privacy, trust in the cloud and behavioural models of trust.

Engineering Applications of Neural Networks Aug 20 2019 The two-volume set IFIP AICT 363 and 364 constitutes the refereed proceedings of the 12th International Conference on Engineering Applications of Neural Networks, EANN 2011, and the 7th IFIP WG 12.5 International Conference, AIAI 2011, held jointly in Corfu, Greece, in September 2011. The 52 revised full papers and 28 revised short papers presented together with 31 workshop papers were carefully reviewed and selected from 150 submissions. The first volume includes the papers that were accepted for presentation at the EANN 2011 conference. They are organized in topical sections on computer vision and robotics, self organizing maps, classification/pattern recognition, financial and management applications of AI, fuzzy systems, support vector machines, learning and novel algorithms, reinforcement and radial basis function ANN, machine learning, evolutionary genetic algorithms optimization, Web applications of ANN, spiking ANN, feature extraction minimization, medical applications of AI, environmental and earth applications of AI, multi layer ANN, and bioinformatics. The volume also contains the accepted papers from the Workshop on Applications of Soft Computing to Telecommunication (ASCOTE 2011), the Workshop on Computational Intelligence Applications in Bioinformatics (CIAB 2011), and the Second Workshop on Informatics and Intelligent Systems Applications for Quality of Life Information Services (ISQLIS 2011).

Innovative Security Solutions for Information Technology and Communications Mar 07 2021 This book constitutes the thoroughly refereed proceedings of the 11th International Conference on Security for Information Technology and Communications, SecITC 2018, held in Bucharest, Romania, in November 2018. The 35 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 70 submissions. The papers present advances in the theory, design, implementation, analysis, verification, or evaluation of secure systems and algorithms.

Designing Security Architecture Solutions Sep 25 2022 The first guide to tackle security architecture at the softwareengineering level Computer security has become a critical business concern, and, assuch, the responsibility of all IT professionals. In thisgroundbreaking book, a security expert with AT&T Business'srenowned Network Services organization explores system securityarchitecture from a software engineering perspective. He explainswhy strong security must be a guiding principle of the developmentprocess and identifies a common set of features found in mostsecurity products, explaining how they can and should impact thedevelopment cycle. The book also

offers in-depth discussions ofsecurity technologies, cryptography, database security, applicationand operating system security, and more.

ECIW2010-Proceedings of the 9th European Conference on Information Warfare and Security Feb 24 2020

Agent Computing and Multi-Agent Systems Jan 05 2021 This book constitutes the refereed proceedings of the 9th Pacific Rim International Workshop on Multi-Agents, PRIMA 2006, held in Guilin, China, in August 2006. The book presents 39 revised full papers and 57 revised short papers together with 4 invited talks, addressing subjects from theoretical and methodological issues to applications. Topics include agent models, agent architectures, agent-oriented software engineering, semantic Web service, collaboration, coordination and negotiation, and more.

Service Research Challenges and Solutions for the Future Internet Sep 01 2020 S-Cube's Foundations for the Internet of Services Today's Internet is standing at a crossroads. The Internet has evolved from a source of information to a critical infrastructure which underpins our lives and economies. The demand for more multimedia content, more interconnected devices, more users, a richer user experience, services available any time and anywhere increases the pressure on existing networks and service platforms. The Internet needs a fundamental rearrangement to be ready to meet future needs. One of the areas of research for the Future Internet is the Internet of S- vices, a vision of the Internet where everything (e. g. , information, software, platforms and infrastructures) is available as a service. Services available on the Internet of Services can be used by anyone (if they are used according to the policies de?ned by the provider) and they can be extended with new services by anyone. Advantages of the Internet of Services include the p- sibility to build upon other people's e?orts and the little investment needed upfront to develop an application. The risk involved in pursuing new business ideas is diminished, and might lead to more innovative ideas being tried out in practice. It will lead to the appearance of new companies that are able to operate in niche areas, providing services to other companies that will be able to focus on their core business.

E-Commerce and Web Technologies Sep 13 2021 The International Conference on E-commerce and Web Technologies (EC-Web) is a mature and well-established forum for researchers working in the area of electronic commerce and web technologies. These are the proceedings of the ninth conference in the series, which, like previous EC-Web conferences, was co-located with DEXA, the International Conference on Database and Expert Systems Applications, which, this year, took place in Turin, Italy. One key feature of EC-Web is its two-fold nature: it brings together both papers proposing technological solutions for e-commerce and the World Wide Web, and papers concerning the management of e-commerce, such as web marketing, the impact of e-commerce on business processes and organizations, the analysis of case studies, as well as social aspects of e-commerce (to understand the impact of e-commerce solutions on day-to-day life and the new opportunities that these behaviors open). The technical program included 12 reviewed papers and two invited papers. Each paper was reviewed by five reviewers, in order to select only the best quality papers. The program included five sessions: "Security in E-Commerce" (with two papers), "Social Aspects of E-Commerce" (with two papers), "Business Process and EC Inf- structures" (with three papers), "Recommender Systems and E-Negotiations" (with four papers) and "Web Marketing and User Profiling" (with three papers). We found the program interesting and we hope participants and readers feel the same. Furthermore, we hope the attendees enjoyed the conference and Turin. June 2008 Giuseppe Psaila Roland R. Wagner

Innovative Security Solutions for Information Technology and Communications Nov 03 2020 This book constitutes the thoroughly refereed post-conference proceedings of the 12th International Conference on Security for Information Technology and Communications, SecITC 2019, held in Bucharest, Romania, in November 2019. The 14 revised full papers presented together with 4 invited talks were carefully reviewed and selected from 34 submissions. The papers present a wide range from cryptographic algorithms, to digital forensic and cyber security.

Software Architecture Oct 26 2022 This book constitutes the proceedings of the 9th European Conference on Software Architecture, ECSA 2015, held in Cavtat, Croatia in September 2015. The 12 full papers and 15 short papers presented together with three education and training papers in this volume were carefully reviewed and selected from 100 submissions. They are organized in topical sections named: adaptation; design approaches; decisions and social aspects; education and training; cloud and green; agile and smart systems; analysis and automation; services and ecosystems.

Solutions on Embedded Systems Jan 25 2020 Embedded systems have an increasing importance in our everyday lives. The growing complexity of embedded systems and the emerging trend to interconnections between them lead to new challenges. Intelligent solutions are necessary to overcome these challenges and to provide reliable and secure systems to the customer under a strict time and financial budget. Solutions on Embedded Systems documents results of several innovative approaches that provide intelligent solutions in embedded systems. The objective is to present mature approaches, to provide detailed information on the implementation and to discuss the results obtained.

Innovative Security Solutions for Information Technology and Communications Dec 16 2021 This book constitutes the thoroughly refereed post-conference proceedings of the 9th International Conference on Security for Information Technology and Communications, SECITC 2016, held in Bucharest, Romania, in June 2016. The 16 revised full papers were carefully reviewed and selected from 35 submissions. In addition with 4 invited talks the papers cover topics such as Cryptographic Algorithms and Protocols, and Security Technologies for ITC.

Agent-Oriented Software Engineering IX Apr 20 2022 Software architectures that contain many dynamically interacting components, each with its own thread of control, engaging in complex coordination protocols, are difficult to correctly and efficiently engineer. Agent-oriented modelling techniques are important for the design and development of such applications. This book provides a diverse and interesting overview of the work that is currently being undertaken by a growing number of researchers in the area of Agent-Oriented Software Engineering. The papers represent a state-of-the-art report of current research in this field, which is of critical importance in facilitating industry take-up of powerful agent technologies. This volume constitutes the thoroughly refereed post-conference proceedings of the 9th International Workshop on Agent-Oriented Software Engineering, AOSE 2008, held in Estoril, Portugal, in May 2008 as part of AAMAS 2008. The 20 revised full papers were carefully selected from 50 initial submissions during two rounds of reviewing and improvement. The papers have been organized into four sections on: multi-agent organizations, method engineering and software development processes, testing and debugging, as well as tools and case studies.

Computational Solutions for Knowledge, Art, and Entertainment: Information Exchange Beyond Text Jun 10 2021 As interactive application software such as apps, installations, and multimedia presentations have become pervasive in everyday life, more and more computer scientists, engineers, and technology experts acknowledge the influence that exists beyond visual explanations. Computational Solutions for Knowledge, Art, and Entertainment: Information Exchange Beyond Text focuses on the methods of depicting knowledge-based concepts in order to assert power beyond a visual explanation of scientific and computational notions. This book combines formal descriptions with graphical presentations and encourages readers to interact by creating visual solutions for science-related concepts and presenting data. This reference is essential for researchers, computer scientists, and academics focusing on the integration of science, technology, computing, art, and mathematics for visual problem solving.

Intelligent Distributed Computing IX Jun 29 2020 This book represents the combined peer-reviewed proceedings of the ninth International Symposium on Intelligent Distributed Computing – IDC'2015, of the Workshop on Cyber Security and Resilience of Large-Scale Systems – WSRL'2015, and of the International Workshop on Future Internet and Smart Networks – FI&SN'2015. All the events were held in Guimarães, Portugal during October 7th-9th, 2015. The 46 contributions published in this book address many topics related to theory and applications of intelligent distributed computing, including: Intelligent Distributed Agent-Based Systems, Ambient Intelligence and Social Networks, Computational Sustainability, Intelligent Distributed Knowledge Representation and Processing, Smart Networks, Networked Intelligence and Intelligent Distributed Applications, amongst others.

Digital Design and Computer Architecture Dec 28 2022 Digital Design and Computer Architecture: ARM Edition covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor. Combining an engaging and humorous writing style with an updated and hands-on approach to digital design, this book takes the reader from the fundamentals of digital logic to the actual design of an ARM processor. By the end of this book, readers will be able to build their own microprocessor and will have a top-to-bottom understanding of how it works. Beginning with digital logic gates and progressing to the design of combinational and sequential circuits, this book uses these fundamental building blocks as the basis for designing an ARM processor. SystemVerilog and VHDL are integrated throughout the text in examples illustrating the methods and techniques for CAD-based circuit design. The companion website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. This book will be a valuable resource for students taking a course that combines digital logic and computer architecture or students taking a two-quarter sequence in digital logic and computer organization/architecture. Covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor. Features side-by-side examples of the two most

prominent Hardware Description Languages (HDLs)—SystemVerilog and VHDL—which illustrate and compare the ways each can be used in the design of digital systems. Includes examples throughout the text that enhance the reader's understanding and retention of key concepts and techniques. The Companion website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. The Companion website also includes appendices covering practical digital design issues and C programming as well as links to CAD tools, lecture slides, laboratory projects, and solutions to exercises.

Theme Cities: Solutions for Urban Problems Nov 22 2019 This book reviews a series of new urban ideas or themes designed to help make cities more liveable, sustainable, safe and inclusive. Featuring examples drawn from cities all over the world, the various chapters provide critical assessments of each of the various approaches and their potential to improve urban life. New Urbanism: creating new areas based on a more humane scale with neighbourhood cohesion Just Cities: creating more fairness in decision-making so all residents can participate and benefit. Green Cities: helping places become greener with environmental rehabilitation and protection Sustainable Cities: avoiding the waste of resources and harmful pollution in settlements Transition Towns: developing local initiatives for more sustainable actions Winter Cities: making cities in cold climates more comfortable and enjoyable Resilient Cities: strengthening cities to better enable them to withstand natural hazards Creative Cities: supporting cultural industries and attracting talented individuals Knowledge Cities: creating, renewing and spreading knowledge and innovation Safe Cities: ensuring that citizens are better protected against criminal actions Healthy Cities: making improvements in the health of people in cities Festive Cities: rediscovering the utility of festive events in settlements Slow Cities: enhancing locally unique activities, such as local cuisines and community interactions This volume offers a host of approaches designed to give a new direction and focus to planning policies, helping readers to fully understand the advantages and disadvantages of each potential idea. It seeks to solve the many current problems associated with urban developments, making it a valuable resource for university and college students in urban geography, urban planning, urban sociology and urban studies as well as to planners and the general public.

Digital Innovation for Healthcare in COVID-19 Pandemic: Strategies and Solutions Nov 15 2021 Digital Innovation for Healthcare in COVID-19 Pandemic: Strategies and Solutions provides comprehensive knowledge and insights on the application of information technologies in the healthcare sector, sharing experiences from leading researchers and academics from around the world. The book presents innovative ideas, solutions and examples to deal with one of the major challenges of the world, a global problem with health, economic and political dimensions. Advanced information technologies can play a key role in solving problems generated by the COVID-19 outbreak. The book addresses how science, technology and innovation can provide advances and solutions to new global health challenges. This is a valuable resource for researchers, clinicians, healthcare workers, policymakers and members of the biomedical field who are interested in learning how digital technologies can help us avoid and solve global disease dissemination. Presents real-world cases with experiences of applications of healthcare solutions during the pandemic of COVID-19 Discusses new approaches, theories and tools developed during an unprecedented health situation and how they can be used afterwards Encompasses information on preparedness for future outbreaks to make less costly and more effective healthcare responses to crises

Structures and Architecture Feb 18 2022 Although the disciplines of architecture and structural engineering have both experienced their own historical development, their interaction has resulted in many fascinating and delightful structures. To take this interaction to a higher level, there is a need to stimulate the inventive and creative design of architectural structures and to persua

Architecture and Building Apr 08 2021

Industry 4.0 Solutions for Building Design and Construction Dec 24 2019 This book provides in-depth results and case studies in innovation from actual work undertaken in collaboration with industry partners in Architecture, Engineering, and Construction (AEC). Scientific advances and innovative technologies in the sector are key to shaping the changes emerging as a result of Industry 4.0. Mainstream Building Information Management (BIM) is seen as a vehicle for addressing issues such as industry fragmentation, value-driven solutions, decision-making, client engagement, and design/process flow; however, advanced simulation, computer vision, Internet of Things (IoT), blockchain, machine learning, deep learning, and linked data all provide immense opportunities for dealing with these challenges and can provide evidenced-based innovative solutions not seen before. These technologies are perceived as the "true" enablers of future practice, but only recently has the AEC sector recognised terms such as "golden key" and "golden thread" as part of BIM processes and workflows. This book builds on the success of a number of initiatives and projects by the authors, which include seminal findings from the literature, research and development, and practice-based solutions produced for industry. It presents these findings through real projects and case studies developed by the authors and reports on how these technologies made a real-world impact. The chapters and cases in the book are developed around these overarching themes: • BIM and AEC Design and Optimisation: Application of Artificial Intelligence in Design • BIM and XR as Advanced Visualisation and Simulation Tools • Design Informatics and Advancements in BIM Authoring • Green Building Assessment: Emerging Design Support Tools • Computer Vision and Image Processing for Expediting Project Management and Operations • Blockchain, Big Data, and IoT for Facilitated Project Management • BIM Strategies and Leveraged Solutions This book is a timely and relevant synthesis of a number of cogent subjects underpinning the paradigm shift needed for the AEC industry and is essential reading for all involved in the sector. It is particularly suited for use in Masters-level programs in Architecture, Engineering, and Construction.

Advances in Computer Systems Architecture Nov 27 2022 This book constitutes the refereed proceedings of the 9th Asia-Pacific Computer Systems Architecture Conference, ACSAC 2004, held in Beijing, China in September 2004. The 45 revised full papers presented were carefully reviewed and selected from 154 submissions. The papers are organized in topical sections on cache and memory, reconfigurable and embedded architectures, processor architecture and design, power and energy management, compiler and operating systems issues, application-specific systems, interconnection networks, prediction techniques, parallel architectures and programming, microarchitecture design and evaluation, memory and I/O systems, and others.

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