Data Informed Design Conference

Kathleen Armour

Data-Driven Design for Computer-Supported Collaborative Learning Lanqin Zheng,2021-08-11 This book highlights the importance of design in computer-supported collaborative learning (CSCL) by proposing data-driven design and assessment. It addresses data-driven design, which focuses on the processing of data and on improving design quality based on analysis results, in three main sections. The first section explains how to design collaborative learning activities based on data-driven design approaches, while the second shares illustrative examples of computer-supported collaborative learning activities. In turn, the third and last section demonstrates how to evaluate design quality and the fidelity of enactment based on design-centered research. The book features several examples of innovative data-driven design approaches to optimizing collaborative learning activities; highlights innovative CSCL activities in authentic learning environments; demonstrates how learning analytics can be used to optimize CSCL design; and discusses the design-centered research approach to evaluating the alignment between design and enactment in CSCL. Given its scope, it will be of interest to a broad readership including researchers, educators, practitioners, and students in the field of collaborative learning, as well as the rapidly growing community of people who are interested in optimizing learning performance with CSCL.

Data-driven Design of Fault Diagnosis and Fault-tolerant Control Systems Steven X. Ding,2014-04-12 Data-driven Design of Fault Diagnosis and Fault-tolerant Control Systems presents basic statistical process monitoring, fault diagnosis, and control methods and introduces advanced data-driven schemes for the design of fault diagnosis and fault-tolerant control systems catering to the needs of dynamic industrial processes. With ever increasing demands for reliability, availability and safety in technical processes and assets, process monitoring and fault-tolerance have become important issues surrounding the design of automatic control systems. This text shows the reader how, thanks to the rapid development of information technology, key techniques of data-driven and statistical process monitoring and control can now become widely used in industrial practice to address these issues. To allow for self-contained study and facilitate implementation in real applications, important mathematical and control theoretical knowledge and tools are included in this book. Major schemes are presented in algorithm form and demonstrated on industrial case systems. Data-driven Design of Fault Diagnosis and Fault-tolerant Control Systems will be of interest to process and control engineers, engineering students and researchers with a control engineering background.

The Routledge Companion to Smart Design Thinking in Architecture & Urbanism for a Sustainable, Living Planet Mitra Kanaani,2024-11-11 This comprehensive companion surveys intelligent design thinking in architecture and urbanism, investigates multiple facets of smart approaches to design thinking that augment the potentials of user experiences as well as his/her physical and mental interactions with the built environment. Split into six paradigms, this volume looks at the theoretical and historical background of smart design, smart design methodologies and typologies, smart materials, smart design for extreme weather and climatic regions, as well as climate change issues and side effects, smart mobility, and the role of digital technologies and simulations in architectural and urban design. Often at odds with each other, this volume places emphasis on smart design for various typologies and user groups, emphasizing on advancements in form-making and implementation of technology for healthy and sustainable living environments. Written by emerging and established architects, planners, designers, scientists, and engineers from around the globe, this will be an essential reference volume for architecture and urban design students and scholars as well as those in related fields interested in the implications, various facets and futures of smart design.

Data-Driven Decision Making for Product Service Systems Giuditta Pezzotta,Roberto Sala,Xavier Boucher,Marco Bertoni,Fabiana Pirola,2024-06-21 This book is a compilation of theoretical and practical contributions aimed at facilitating the servitization of manufacturing companies, specifically focusing on data-driven decision-making within the context of Product-Service Systems (PSS). Providing a comprehensive overview, it discusses the latest breakthroughs in operational, tactical, and strategic decision-making for PSS, leveraging data-driven processes, methodologies, and tools. Therefore, the book significantly contributes to strengthening the knowledge on the use of data-driven decision-making methods and tools all the phases of the PSS lifecycle. From extended warranties and leasing to pay-per-use and other innovative configurations, manufacturing companies are increasingly adopting servitized business models and PSS to create additional value for their customers and users and create robust relationships with them, ensuring more reliable cash flows. In this setting, effective information management and the utilization of aggregated operational data have become essential for guiding strategic, tactical, and operational decisions. This book not only consolidates theoretical frameworks but also offers practical insights into data-driven decision-making in PSS, providing deep knowledge on how complex decisions can be taken along the various phases of the PSS lifecycle using data-driven methods and tools. Key areas of focus include: 1. In the Beginning of Life, introducing new services tailored to customer needs, disclosing new business opportunities in terms of revenues, and extending the PSS Middle of Life. 2. Designing or re-designing assets and/or services, thereby influencing the PSS Beginning of Life. 3. Enhancing daily decisions related to asset management to improve the PSS Middle of Life. 4. Optimizing daily decisions related to service delivery and management, aimed at enhancing the PSS Middle of Life. 5. Facilitating informed decisions on recycling, remanufacturing, refurbishing, and revamping, impacting the PSS End of Life. This book will be of

interest to researchers and managers in industry as it offers insights that bridge the gap between theory and practical application in the evolving landscape of PSS.

Urban Climate Change Adaptation Baojie He,Joni Jupesta,Giuseppe T. Cirella,Gloria Pignatta,2024-09-17 Urban Climate Change Adaptation is a timely and informative book that delves into the complex challenges posed by climate change and explores the pathways to achieving environmental sustainability. The book begins by examining the scientific consensus on climate change, detailing the causes and consequences of rising global temperatures, changing weather patterns, and the resulting impacts on ecosystems and human societies. Readers are further introduced to a range of innovative and nature-based solutions that promote environmental sustainability. These solutions encompass a diverse array of approaches, including renewable energy, sustainable agriculture, conservation of biodiversity, and the restoration of ecosystems. The book serves as an indispensable resource for anyone seeking a comprehensive understanding of complex issues on climate change and the pursuit of environmental sustainability. It also offers practical solutions for individuals, communities, and policymakers.

Proceedings of the ... ASME Design Engineering Technical Conferences ,2005

Proceedings of the IEEE 1985 National Aerospace and Electronics Conference, NAECON 1985 ,1985

EDRA; Proceedings of the Annual Environmental Design Research Association Conference Environmental Design Research Association,2007

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Design + Values Council of Educators in Landscape Architecture. Meeting 1992,1992

EDRA38 Environmental Design Research Association. Annual Conference,2007

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Proceedings of the ASME Conference on Smart Materials, Adaptive Structures and Intelligent Systems--2009 ,2009 A collection of 81 full-length, peer-reviewed technical papers that covers such topics as: Bio-inspired Smart Materials and Structures; Enabling Technologies and Integrated System Design; Multifunctional Materials; and, Structural Health Monitoring/NDE.

Proceedings of the 1987 Conference on Planning and Design in Management of Business and Organization ,1987

Mine to Mill 1998 Conference, 11-14 October 1998, Brisbane Queensland ,1998

<u>Designing for Informed Consent</u> Nathaniel Stanley Good,2008

Proceedings of the Workshop on Data Bases for Interactive Design William Magda VanCleemput,J. G. Linders,1974

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