



Innovative Conceptual Design

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Frangopol**



Innovative Conceptual Design:

Innovative Conceptual Design Ehud Kroll, Sridhar S. Condoor, David G. Jansson, 2001-09-27 Conceptual design along with need identification and analysis make up the initial stage of the design process. Need analysis transforms the often vague statement of a design task into a set of design requirements. Conceptual design encompasses the generation of concepts and integration into system level solutions leading to a relatively detailed design. This 2001 book is devoted to the crucial initial stage of engineering design. In particular, it focuses on parameter analysis, a methodology that leads the user through the design process, helping to identify critical issues, parameters of the design, and propose configuration specific solutions. To illustrate the principles discussed, the authors present numerous examples and a variety of real world case studies. The emphasis throughout is on innovation. This useful text will appeal to advanced undergraduate and graduate students as well as practising engineers, architects, and product development managers.

A Computational Approach to Innovative Conceptual Design Tolga Kurtoglu, 2007 Conceptual design is a vital part of the design process during which designers first envision new ideas and then synthesize them into physical configurations that meet certain design specifications. In this research, a computational approach is developed to assist the designers perform this non trivial task of navigating the design space for creating conceptual design configurations. The methodology is based on combining empirical reverse engineering techniques with a graph grammar approach. Accordingly, design knowledge is systematically extracted from past designs, formulated as procedural grammar rules, and employed in building new design concepts. The implemented system provides a theoretical framework for automatically searching conceptual design spaces and produces novel alternative configurations to real design problems. The application of the approach to the design of various electromechanical devices shows the method's range of capabilities and how it serves as a comparison to human conceptual design generation and as a tool to complement the skills of a designer.

Enhance Innovation in Conceptual Design Through Knowledge Structuring Xin Yi, 2021 Conceptual design plays a critical role in engineering design as the innovation level of a product is mostly determined in this stage. Within conceptual design, concept generation is essential as it allows designers to propose innovative concepts that bring value to customers. However, keeping developing innovative concepts is not easy for designers. They are very likely to be fixed by existing concepts or solutions which restrained them from offering new concepts. The thesis's objective is to contribute to enhancing innovation in concept generation by helping designers to mitigate this design fixation. To reach this goal, our proposal is to help them in better structuring their knowledge. Following clearly specified research procedures, we first take the case study of smartwatches design to learn lessons and explore patterns. Based on these findings, we develop a knowledge based heuristic centred methodology to guide designers in innovative concept generation. The methodology provides guidelines that lead designers along with different steps from knowledge identification to knowledge structuring. This method is illustrated on the smartwatches case study and experimented in different situations.

Design Theory Pascal

Le Masson, Benoit Weil, Armand Hatchuel, 2017-04-06 This textbook presents the core of recent advances in design theory and its implications for design methods and design organization Providing a unified perspective on different design methods and approaches from the most classic systematic design to the most advanced C K theory it offers a unique and integrated presentation of traditional and contemporary theories in the field Examining the principles of each theory this guide utilizes numerous real life industrial applications with clear links to engineering design industrial design management economics psychology and creativity Containing a section of exams with detailed answers it is useful for courses in design theory engineering design and advanced innovation management Students and professors practitioners and researchers in diverse disciplines interested in design will find in this book a rich and vital source for studying fundamental design methods and tools as well as the most advanced design theories that work in practice Professor Yoram Reich Tel Aviv University Editor in Chief Research In Engineering Design Twenty years of research in design theory and engineering have shown that training in creative design is indeed possible and offers remarkably operational methods this book is indispensable for all leaders and practitioners who wish to strengthen the innovation capacity of their company Pascal Daloz Executive Vice President Dassault Syst mes Life-Cycle Civil Engineering: Innovation, Theory and Practice Airong Chen, Xin Ruan, Dan M.

Frangopol, 2021-02-26 Life Cycle Civil Engineering Innovation Theory and Practice contains the lectures and papers presented at IALCCE2020 the Seventh International Symposium on Life Cycle Civil Engineering held in Shanghai China October 27 30 2020 It consists of a book of extended abstracts and a USB card containing the full papers of 230 contributions including the Fazlur R Khan lecture eight keynote lectures and 221 technical papers from all over the world All major aspects of life cycle engineering are addressed with special emphasis on life cycle design assessment maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards It is expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life cycle of civil infrastructure systems including students researchers engineers and practitioners from all areas of engineering and industry **Design for Sustainability** S. M. Sapuan, Muhd Ridzuan Mansor, 2021-03-13 Design for Sustainability Green

Materials and Processes provides fundamental and practical knowledge surrounding product development applications throughout the entire lifecycle of green materials ranging from conceptual design material and manufacturing process selection and environmental lifecycle assessment In addition several topics covering recent advances in the application of sustainable design within the automotive building and construction packaging and consumer product industries are also included in this book to provide practical examples of this philosophy in current applications Lastly a section on implementation of design for sustainability in education is added to aid readers that wish to introduce this philosophy to younger students This book will be beneficial to researchers students in higher education institutions design practitioners and engineers in private and public sector organization with aspirations to develop sustainable products in the future Design

for sustainability is one of the primary focuses in human advancement nowadays with the aim of developing products and services that meet the needs of the present without compromising the ability of future generations to meet their own needs Provides an overview on materials and process design for sustainability Discusses theoretical aspects about design for sustainability Includes a discussion of the most recent advances and applications in design for sustainability

Designing for the 21st Century Tom Inns,2007 An exploration of emergent roles for design and the 21st century designer explored through the work of 21 research teams Over a twelve month period each of these groups held a series of workshops and events to examine different facets of future design activity Each of the contributions describes the context of enquiry the journey taken by the research team and key insights generated through discourse Editor and Initiative Director Tom Inns provides an introductory chapter that suggests ways that the reader might navigate these different viewpoints

Green Design, Materials and Manufacturing Processes Helena Bartolo,2013-06-06 Green Design Materials and Manufacturing Processes includes essential research in the field of sustainable intelligent manufacturing and related topics containing reviewed papers presented at the 2nd International Conference on Sustainable Intelligent Manufacturing 2013 Topics covered include Eco Design and Innovation Energy Efficiency Green and Smart Manufacturing Green Transportation Life Cycle Engineering Renewable Energy Technologies Reuse and Recycling Techniques Smart Design Smart Materials Sustainable Business Models and Sustainable Construction Intended for engineers architects designers economists and manufacturers dealing with key sustainability issues

Human Computer Interaction: Concepts, Methodologies, Tools, and Applications Ang, Chee Siang,Zaphiris, Panayiotis,2008-10-31 Penetrates the human computer interaction HCI field with breadth and depth of comprehensive research

Data-Driven Engineering Design Ang Liu,Yuchen Wang,Xingzhi Wang,2021-10-09 This book addresses the emerging paradigm of data driven engineering design In the big data era data is becoming a strategic asset for global manufacturers This book shows how the power of data can be leveraged to drive the engineering design process in particular the early stage design Based on novel combinations of standing design methodology and the emerging data science the book presents a collection of theoretically sound and practically viable design frameworks which are intended to address a variety of critical design activities including conceptual design complexity management smart customization smart product design product service integration and so forth In addition it includes a number of detailed case studies to showcase the application of data driven engineering design The book concludes with a set of promising research questions that warrant further investigation Given its scope the book will appeal to a broad readership including postgraduate students researchers lecturers and practitioners in the field of engineering design

TRIZ - The Theory of Inventive Problem Solving Denis Cavallucci,2017-07-25 The work presented here is generally intended for engineers educators at all levels industrialists managers researchers and political representatives Offering a snapshot of various types of research conducted within the field of TRIZ in France it represents a unique resource

It has been two decades since the TRIZ theory originating in Russia spread across the world. Every continent adopted it in a different manner: sometimes by glorifying its potential and its perspectives the American way, sometimes by viewing it with mistrust and suspicion the European way, and sometimes by adopting it as is without questioning it further the Asian way. However, none of these models of adoption truly succeeded. Today, an assessment of TRIZ practices in education, industry, and research is necessary. TRIZ has expanded to many different scientific disciplines and has allowed young researchers to reexamine the state of research in their field. To this end, a call was sent out to all known francophone research laboratories producing regular research about TRIZ. Eleven of them agreed to send one or more of their postdoctoral researchers to present their work during a seminar, regardless of the maturity or completeness of their efforts. It was followed by this book project presenting one chapter for every current thesis in order to reveal the breadth, the richness, and the perspectives that research about the TRIZ theory could offer our society. The topics dealt with, e.g., the development of new methods inspired by TRIZ educational practices and measuring team impact.

Creative Solutions for a Sustainable Development Yuri Borgianni, Stelian Brad, Denis Cavallucci, Pavel Livotov, 2021-09-15. This book constitutes the refereed proceedings of the 21st International TRIZ Future Conference on Automated Invention for Smart Industries TFC 2021 held virtually in September 2021 and sponsored by IFIP WG 5.4. The 28 full papers and 8 short papers presented were carefully reviewed and selected from 48 submissions. They are organized in the following thematic sections: inventiveness and TRIZ for sustainable development, TRIZ intellectual property and smart technologies, TRIZ expansion in breadth and depth, TRIZ data processing and artificial intelligence, and TRIZ use and divulgation for engineering design and beyond. Chapter: Domain Analysis with TRIZ to Define an Effective Design for Excellence is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com).

Systematic Complex Problem Solving in the Age of Digitalization and Open Innovation Denis Cavallucci, Stelian Brad, Pavel Livotov, 2020-10-09. This book constitutes the refereed proceedings of the 20th International TRIZ Future Conference on Automated Invention for Smart Industries TFC 2020 held in Cluj Napoca, Romania, in October 2020 and sponsored by IFIP WG 5.4. The conference was held virtually. The 34 full papers presented were carefully reviewed and selected from 91 submissions. They are organized in the following thematic sections: computing, TRIZ education and pedagogy, sustainable development tools and techniques of TRIZ for enhancing design, TRIZ and system engineering, TRIZ and complexity, and cross fertilization of TRIZ for innovation management.

The UX Book Rex Hartson, Pardha S. Pyla, 2025-03-24. The UX Book: Agile Design for a Quality User Experience, Third Edition, takes a practical, applied, hands-on approach to UX design based on the application of established and emerging best practices, principles, and proven methods to ensure a quality user experience. The approach is about practice, drawing on the creative concepts of design exploration and visioning to make designs that appeal to the emotions of users while moving toward processes that are lightweight, rapid, and agile to make things as good as resources permit and to value time and other resources in the process. Designed as a

textbook for aspiring students and a how to handbook and field guide for UX professionals the book is accompanied by in class exercises and team projects The approach is practical rather than formal or theoretical The primary goal is to imbue an understanding of what a good user experience is and how to achieve it To better serve this processes methods and techniques are introduced early to establish process related concepts as context for discussion in later chapters A comprehensive textbook for UX human computer interaction HCI design students readymade for the classroom complete with instructors manual dedicated website sample syllabus examples exercises and lecture slides Features HCI theory process practice and a host of real world stories and contributions from industry luminaries to prepare students for working in the field The only HCI textbook to cover agile methodology design approaches and a full modern suite of classroom material stemming from tried and tested classroom use by the authors

Research in Interactive Design (Vol. 4) Xavier Fischer,Alain Daidie,Benoit Eynard,Manuel Paredes,2016-03-02 Covering key topics in the field such as technological innovation human centered sustainable engineering and manufacturing and manufacture at a global scale in a virtual world this book addresses both advanced techniques and industrial applications of key research in interactive design and manufacturing Featuring the full papers presented at the 2014 Joint Conference on Mechanical Design Engineering and Advanced Manufacturing which took place in June 2014 in Toulouse France it presents recent research and industrial success stories related to implementing interactive design and manufacturing solutions

Advancements in the Philosophy of Design Pieter E. Vermaas,Stéphane Vial,2018-03-02 This volume presents 25 essays on the philosophy of design With contributions originating from philosophy and design research and from product design to architecture it gives a rich spectrum of state of the art research and brings together studies on philosophical topics in which design plays a key role and design research to which philosophy contributes Coverage zooms in on specific and more well known design disciplines but also includes less studied disciplines such as graphic design interior architecture and exhibition design In addition contributors take up traditional philosophical issues such as epistemology politics phenomenology and philosophy of science Some essays cover philosophical issues that emerge in design for instance what design can do in addressing societal problems while other essays analyze main stream philosophical issues in which design is part of the argument as for instance abduction and aesthetics Readers will discover new research with insightful analyses of design research design thinking and the specificity of design Overall this comprehensive overview of an emerging topic in philosophy will be of great interest to researchers and students

Shipping Innovation N. Wijnolst,Tor Wergeland,Kai Levander,2009 There were not many textbooks on shipping available for the students in the early 1990s Therefore it was decided to write Shipping in 1996 One year earlier Niko Wijnolst had published Design Innovation in Shipping based on work at the Delft University of Technology The two books together offered a comprehensive insight and overview into the dynamics of global shipping and maritime innovation Although the core of the books held its value it was decided to make an update of the two books and merge them

into one new textbook Shipping Innovation destined for a broad specter of maritime students and professionals Some substantial new parts were added as well as some new contributions by other writers This textbook offers a one stop shopping experience to those students and professionals who wish to get acquainted with the multifaceted aspects of global shipping and its everlasting innovation dynamics Some of the new contributions are the mission based design process of a Panamax containership and a ro ro vessel sustainable shipping and innovation and an innovation case study on the revolutionary design of a ballast free ship

Information Systems Foundations Dennis Hart, Shirley Gregor, 2010-12-01 This volume presents papers from the fourth biennial Information Systems Foundation Workshop held at The Australian National University in Canberra from 23 October 2008 The focus of the workshop was as for the others in the series the foundations of Information Systems as an academic discipline The emphasis in this workshop was on the movement known as Design Science and its importance in practical disciplines such as Information Systems The chapters in the volume provide a critical examination of current design science ideas with the role of human creativity given special mention The philosophical underpinnings of design science thinking are also examined Practically the volume shows how the design science approach can be used in academic research that leads to artefacts that add value for individuals organizations and society

Life Cycle Design & Engineering of Lightweight Multi-Material Automotive Body Parts Thomas Vietor, 2022-10-19 This book presents the final report of the collaborative research project MultiMaK2 MultiMaK2 contributed to the development of multi material component concepts in large scale automotive production Within the project new methods in conceptual design of lightweight components were developed at the example of roof cross member and transmission tunnels A concurrent Life Cycle Design Engineering approach led to identifying eco and cost efficient component alternatives This includes evaluation tools for the concepts full life cycle Further methods to integrate that knowledge into automotive engineering processes have been established based on principles of visual analytics That brings forward a tight integration of data engineering models and results visualization towards an informed knowledge building across disciplines MultiMaK2 also compiled and structured design guidelines within a knowledge management system All methods and tools have been embedded within the Life Cycle Design Engineering Lab in the Open Hybrid LabFactory

Advances in Mechanism and Machine Science Masafumi Okada, 2023-11-04 This book gathers the proceedings of the 16th IFToMM World Congress which was held in Tokyo Japan on November 5-10 2023 Having been organized every four years since 1965 the Congress represents the world's largest scientific event on mechanism and machine science MMS The contributions cover an extremely diverse range of topics including biomechanical engineering computational kinematics design methodologies dynamics of machinery multibody dynamics gearing and transmissions history of MMS linkage and mechanical controls robotics and mechatronics micro mechanisms reliability of machines and mechanisms rotor dynamics standardization of terminology sustainable energy systems transportation machinery tribology and vibration Selected by means of a rigorous international peer review process

they highlight numerous exciting advances and ideas that will spur novel research directions and foster new multidisciplinary collaborations

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