

Claudio R. Boër - Paolo Pedrazzoli
Andrea Bettoni - Marzio Sorlini

Mass Customization and Sustainability

An Assessment Framework and
Industrial Implementation

Mass Customization And Sustainability An Assessment Framework And Industrial Implementation

**Roland Lachmayer, Katharina
Rettschlag, Stefan Kaierle**



Mass Customization And Sustainability An Assessment Framework And Industrial Implementation:

Mass Customization and Sustainability Claudio R. Boër, Paolo Pedrazzoli, Andrea Bettoni, Marzio Sorlini, 2013-05-21 To adapt to global competitive pressures manufacturers must develop methods and enabling technologies towards a personalized customer oriented and sustainable manufacturing Mass Customization and Sustainability defines the two concepts of mass customization and sustainability and introduces a framework to establish a link between the two concepts to answer the questions Are these two aspects empowering one another Or are they hindering one another These questions investigate mass customization as one of the main driving forces to achieve effective sustainability A methodology to assess the contribution of mass customization to sustainability is developed providing an assessment model composed by a set of indicators covering the three aspects of sustainability social economical and environmental This is supported and further explained using ideas and new concepts compiled from recent European research Researchers scientists managers and industry professionals alike can follow a set of practical examples and industrial cases enabling them to easily transfer Mass Customization and Sustainability theoretical concepts into actions to be enforced into their everyday business for gaining competitiveness Mass Customization and Sustainability also introduces useful concepts for government officials responsible for establishing sustainable policies and regulations offering methods to compare the results of implementation of such policies

Customization 4.0 Stephan Hankammer, Kjeld Nielsen, Frank T. Piller, Günther Schuh, Ning Wang, 2018-06-20 This proceedings volume presents the latest research from the worldwide mass customization personalization MCP community bringing together new thoughts and results from various disciplines within the field The chapters are based on papers from the MCPC 2017 The book showcases research and practice from authors that see MCP as an opportunity to extend or even revolutionize current business models The current trends of Industrie 4.0 digital manufacturing and the rise of smart products allow for a fresh perspective on MCP Customization 4.0 The book places a new set of values in the centre of the debate a world with finite resources global population growth and exacerbating climate change needs smart thinking to engage the most effective capabilities and resources It discusses how Customization 4.0 fosters sustainable development and creates shared value for companies customers consumers and the society as a whole The chapters of this book are contributed by a wide range of specialists offering cutting edge research as well as insightful advances in industrial practice in key areas The MCPC 2017 has a strong focus on real life MCP applications and this proceedings volume reflects this MCP strategies aim to profit from the fact that people are different Their objective is to turn customer heterogeneities into opportunities hence addressing long tail business models The objective of MCP is to provide goods and services that best serve individual customers needs with near mass production efficiency This proceedings volume highlights the interdisciplinary work of thought leaders technology developers and researchers with corporate entrepreneurs putting these strategies into practice Chapter 24 is open access under a CC BY 4.0 license via link.springer.com

Reconfigurable

Manufacturing Enterprises for Industry 4.0 Ibrahim H. Garbie, Hamid Parsaei, 2021-08-26 The objective of this book is to support readers facing the urgency challenges analysis and methodologies to reconfiguration It presents a comprehensive framework for reconfiguring manufacturing enterprises and provides a set of valuable conceptual frameworks and methodologies for analyzing evaluating and assessing reconfiguration indices This book offers practical guidance for implementing the Fourth Industrial Revolution Industry 4.0 It presents open ended problems pertaining to the concepts covered in the book and provides a new approach for reconfiguring industrial systems Not only is this book for industrialists and academics it will also appeal to undergraduate and graduate students studying industrial mechanical and manufacturing engineering Scholars and practitioners in operations management will also find this book of interest

Information Technology in Environmental Engineering Jorge Marx Gómez, Brenda Scholtz, 2016-02-04 This book presents new concepts as well as practical applications and experiences in the field of information technology for environmental engineering The book has three main focus areas firstly it shows how information technologies can be employed to support natural resource management and conservation environmental engineering scientific simulation and integrated assessment studies Secondly it demonstrates the application of computing in the everyday practices of environmental engineers natural scientists economists and social scientists And thirdly it demonstrates how the complexity of natural phenomena can be approached using interdisciplinary methods where computer science offers the infrastructure needed for environmental data collection and management scientific simulations decision support documentation and reporting The book collects selected papers presented at the 7th International Symposium on Environmental Engineering held in Port Elizabeth South Africa in July 2015 It discusses recent success stories in eco informatics promising ideas and new challenges from the interdisciplinary viewpoints of computer scientists environmental engineers economists and social scientists demonstrating new paradigms for problem solving and decision making

Understanding Industrial Design Simon King, Kuen Chang, 2016-01-20 With the coming flood of connected products many UX and interaction designers are looking into hardware design a discipline largely unfamiliar to them If you are among those who want to blend digital and physical design concepts successfully this practical book helps you explore seven long standing principles of industrial design Two present and former design directors at IDEO the international design and innovation firm use real world examples to describe industrial designs that are sensorial simple enduring playful thoughtful sustainable and beautiful You will learn how to approach frame and evaluate your designs as they extend beyond the screen and into the physical world Sensorial create experiences that fully engage our human senses Simple design simple products that provide overall clarity in relation to their purpose Enduring build products that wear well and live on as classics Playful use playful design to go beyond functionality and create emotional connections Thoughtful observe people's struggles and anticipate their needs Sustainable design products that reduce environmental impact Beautiful elevate the experience of everyday products through beauty

Advances in Production Management Systems:

Innovative and Knowledge-Based Production Management in a Global-Local World Bernard Grabot, Bruno Vallespir, Gomes Samuel, Abdelaziz Bouras, Dimitris Kiritsis, 2014-08-26 The three volumes IFIP AICT 438 439 and 440 constitute the refereed proceedings of the International IFIP WG 5 7 Conference on Advances in Production Management Systems APMS 2014 held in Ajaccio France in September 2014 The 233 revised full papers were carefully reviewed and selected from 271 submissions They are organized in 6 parts knowledge discovery and sharing knowledge based planning and scheduling knowledge based sustainability knowledge based services knowledge based performance improvement and case studies

Sustainable Automated Production Systems Hamed Fazlollahtabar, 2024-06-26 Due to disruptions occurring within production processes as a result of different circumstances it is necessary to provide a new and safe production system that can be resilient to cope with any crisis such as a pandemic New sustainable automated production systems need to be proposed and adopted by industrial managers and this book fulfills that need Sustainable Automated Production Systems Industry 4 0 Models and Techniques includes the modern technologies of Industry 4 0 and discusses automated systems robotic production sustainable automation production process automation and the use of IoT in production It goes over the circular economy and automated production processes and presents theories and practices associated with mathematical models of process automation in sustainable production The book also investigates how sustainability in automated production systems using the IoT can present unique circumstances when pandemics or other disruptions are involved The book includes chapters presenting sustainable production models and automated production using Industry 4 0 technologies and is targeted to help both practitioners and academics

Chinese Consumers and the Fashion Market Yingjiao Xu, Ting Chi, Jin Su, 2018-03-09 This book provides essential insights into Chinese consumer behaviors in the growing and dynamic fashion market With increasing consumer purchasing power readily accessible global brands heavy application of digital technology and social media as well as growing awareness of environmental issues the Chinese fashion industry faces great opportunities and challenges at the same time The contributing authors provide observations and address issues related to middle class fashion consumption sustainable apparel consumption technology application in fashion retailing and the select traditional and new industry segments in the context of China's recent and massive economic boom As such the book offers an invaluable reference guide for all academics and practitioners interested in the Chinese fashion market

Proceedings of the 7th World Conference on Mass Customization, Personalization, and Co-Creation (MCPC 2014), Aalborg, Denmark, February 4th - 7th, 2014 Thomas D. Brunoe, Kjeld Nielsen, Kaj A. Joergensen, Stig B. Taps, 2014-01-28 The MCPC 2014 is a multi track conference featuring a combination of high profile keynotes with expert talks panel discussions paper sessions workshops receptions and much more While it is devoted to sharing and discussing the latest research in the field the MCPC conference has a strong focus on real life applications Since its beginning the MCPC conference has had an equal share of participants practitioners and academics researchers This makes the MCPC conference truly unique among

many conferences It strives to connect MCPC thinkers first movers entrepreneurs technology developers and researchers with people applying these strategies in practice Twenty years ago Mass Customization was acknowledged as the New Frontier in Business Competition Ever since industry has been applying the concept and researchers have developed the topic into a well established research area and businesses have formed new strategies More knowledge methods and technologies are available now than ever before Along with general Mass Customization topics this conference addresses Mass Customization from a historical perspective looking at both mass customization in the past 20 years and towards the new frontiers in the 20 years to come This book presents the latest research from the worldwide MCPC community bringing together the new thoughts and results from various disciplines within the field

Smart Maintenance for Human-Robot Interaction Bo Xing,Tshilidzi Marwala,2017-09-08 This self contained book written by active researchers presents up to date information on smart maintenance strategies for human robot interaction HRI and the associated applications of novel search algorithms in a single volume eliminating the need to consult scattered resources Unlike other books it addresses maintaining a smart HRI from three dimensions namely hardware cyberware and hybrid asset management covering problems encountered in each through a wide variety of representative examples and elaborated illustrations Further the diverse mathematical models and intelligent systems constructions make the book highly practical It enables readers interested in maintenance robotics and intelligent systems but perplexed by myriads of interrelated issues to grasp basic methodologies At the same time the referenced literature can be used as a roadmap for conducting deeper researches

Towards Sustainable Customization: Bridging Smart Products and Manufacturing Systems Ann-Louise Andersen,Rasmus Andersen,Thomas Ditlev Brunoe,Maria Stoettrup Schioenning Larsen,Kjeld Nielsen,Alessia Napoleone,Stefan Kjeldgaard,2021-10-31 This book features state of the art contributions from two well established conferences Changeable Agile Reconfigurable and Virtual Production Conference CARV2020 and Mass Customization and Personalization Conference MCPC2020 Together they focus on the joint design development and management of products production systems and business for sustainable customization and personalization The book covers a large range of topics within this domain ranging from industrial success factors to original contributions within the field

Intelligent Non-hierarchical Manufacturing Networks Raul Poler,Luis Maia Carneiro,Thomas Jasinski,Marc Zolghadri,Paolo Pedrazzoli,2013-02-05 This book provides the latest models methods and guidelines for networked enterprises to enhance their competitiveness and move towards innovative high performance and agile industrial systems In the new global market competitiveness and economic growth rely greatly on the move toward innovative high performance industrial systems and agile networked enterprises through the creation and consolidation of non hierarchical manufacturing networks of multi national SMEs as opposed to networks based on powerful large scale companies Network performance can be significantly improved through more harmonious and equitable peer to peer inter enterprise relationships conforming decentralized and collaborative

decision making models Traditional hierarchical manufacturing networks are based on centralized models where some of the actors involved must adapt themselves to the constraints defined by those who are most dominant Real world experiences of such models have revealed some major problems due to the centralized vision of the supply chain and the sub optimal performance of centralized decision making For the current highly dynamic markets this generates major inefficiencies in operation throughout the supply chain This book collects the latest research regarding non hierarchical manufacturing networks and provides enterprises with valuable models methods and guidelines to improve their competitiveness

Proceedings of the XV International symposium Symorg 2016 Ondrej Jaško, Sanja Marinković, 2016-06-03

Konstruktion für die Additive Fertigung 2019 Roland Lachmayer, Katharina Rettschlag, Stefan Kaierle, 2020-06-25 Dieses Buch thematisiert grundlegende Spezifikationen von Bauteilen und Prozessen Methoden zur Abschätzung der Bauteileignung und Anwendung der Additiven Fertigung sowie zur Entwicklung von Konzepten und Entwurf Der Inhalt ist in vier Schwerpunktkapitel unterteilt Zuerst wird auf die Integration additiver Fertigungsverfahren in bestehende Prozesse und Maßnahmen zur Steigerung der Wertschöpfung eingegangen Nachfolgend sind Konstruktionen von Bauteilen deren Gestaltung zur Sicherstellung funktionaler Anforderungen und Herstellbarkeit sowie Methoden zur Bauteiloptimierung dargestellt Weiterhin werden Ansätze zur rechnergestützten Simulation sowie physischen Validierung von Bauteilen und deren Erprobung beschrieben Daraus abgeleitet werden Maßnahmen zur Sicherstellung von Qualitätsaspekten charakterisiert Die kapitelbergreifenden Inhalte werden vor dem Hintergrund zum Aufbau neuer Geschäftsmodelle diskutiert und legen den aktuellen Stand der Forschung im Bereich der Additiven Fertigung dar Dieser Konferenzband baut auf den Inhalten des Vorjahresbandes Konstruktion für die Additive Fertigung 2018 auf

Production Processes and Product Evolution in the Age of Disruption Francesco Gabriele Galizia, Marco Bortolini, 2023-08-07 This book includes state of the art and original research contributions from two well established conferences which collectively focus on the joint design development and management of products advanced production systems and business for sustainable customization and personalization The book includes wide range of topics within these subjects ranging from industrial success factors to original contributions within the field The authors represent worldwide leading research institutions

Enabling Manufacturing Competitiveness and Economic Sustainability Hoda A. ElMaraghy, 2011-09-29 The changing manufacturing environment requires more responsive and adaptable manufacturing systems The theme of the 4th International Conference on Changeable Agile Reconfigurable and Virtual production CARV2011 is Enabling Manufacturing Competitiveness and Economic Sustainability Leading edge research and best implementation practices and experiences which address these important issues and challenges are presented The proceedings include advances in manufacturing systems design planning evaluation control and evolving paradigms such as mass customization personalization changeability reconfigurability and flexibility New and important concepts such as the dynamic product families and platforms co evolution of products and systems and methods

for enhancing manufacturing systems economic sustainability and prolonging their life to produce more than one product generation are treated Enablers of change in manufacturing systems production volume and capability scalability and managing the volatility of markets competition among global enterprises and the increasing complexity of products manufacturing systems and management strategies are discussed Industry challenges and future directions for research and development needed to help both practitioners and academicians are presented *Proceedings of the 4th International Conference on the Industry 4.0 Model for Advanced Manufacturing* Laszlo Monostori,Vidosav D. Majstorovic,S. Jack Hu,Dragan Djurdjanovic,2019-04-30 This book gathers the proceedings of the 4th International Conference on the Industry 4 0 Model for Advanced Manufacturing AMP 2019 held in Belgrade Serbia on 3 6 June 2019 The event marks the latest in a series of high level conferences that bring together experts from academia and industry to exchange knowledge ideas experiences research findings and information in the field of manufacturing The book addresses a wide range of topics including design of smart and intelligent products developments in CAD CAM technologies rapid prototyping and reverse engineering multistage manufacturing processes manufacturing automation in the Industry 4 0 model cloud based products and cyber physical and reconfigurable manufacturing systems By providing updates on key issues and highlighting recent advances in manufacturing engineering and technologies the book supports the transfer of vital knowledge to the next generation of academics and practitioners Further it will appeal to anyone working or conducting research in this rapidly evolving field **Emerging Applications in Supply Chains for Sustainable Business Development** Kumar, M. Vijaya,Putnik, Goran D.,Jayakrishna, K.,Pillai, V. Madhusudanan,Varela, Leonilde,2018-09-07 The application of sustainability practices at the system level begins with the supply chain In the business realm incorporating such practices allows organizations to redesign their operations more effectively Emerging Applications in Supply Chains for Sustainable Business Development is a pivotal reference source that provides vital research on the models strategies and analyses that are essential for developing and managing a sustainable supply chain While highlighting topics such as agile manufacturing and the world food crisis this publication is ideally designed for business managers academicians business practitioners researchers academicians and students seeking current research on sustainable supply chain management **Advances in Production Management Systems. Competitive Manufacturing for Innovative Products and Services** Christos Emmanouilidis,Marco Taisch,Dimitris Kiritsis,2013-08-13 The two volumes IFIP AICT 397 and 398 constitute the thoroughly refereed post conference proceedings of the International IFIP WG 5 7 Conference on Advances in Production Management Systems APMS 2012 held in Rhodes Greece in September 2012 The 182 revised full papers were carefully reviewed and selected for inclusion in the two volumes They are organized in 6 parts sustainability design manufacturing and production management human factors learning and innovation ICT and emerging technologies in production management product and asset lifecycle management and services supply chains and operations Optimization Methods in Manufacturing Processes

Anand J. Kulkarni, 2025-08-05 This book presents the result of an innovative challenge to create a systematic literature overview driven by machine generated content. Questions and related keywords were prepared for the machine to query, discover, collate and structure by Artificial Intelligence (AI) clustering. The AI based approach seemed especially suitable to provide an innovative perspective as the topics are indeed both complex interdisciplinary and multidisciplinary, for example climate, planetary and evolution sciences. Springer Nature has published much on these topics in its journals over the years so the challenge was for the machine to identify the most relevant content and present it in a structured way that the reader would find useful. The automatically generated literature summaries in this book are intended as a springboard to further discoverability. They are particularly useful to readers with limited time looking to learn more about the subject quickly and especially if they are new to the topics. Springer Nature seeks to support anyone who needs a fast and effective start in their content discovery journey, from the undergraduate student exploring interdisciplinary content to Master or PhD thesis developing research questions to the practitioner seeking support materials. This book can serve as an inspiration to name a few examples. It is important to us as a publisher to make the advances in technology easily accessible to our authors and find new ways of AI based author services that allow human machine interaction to generate readable, usable, collated research content.

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