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Mass Customization

Opportunities, Methods, and Challenges
for Manufacturers

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SEAMLESSLY AND PROFITABLY
ON THE FACTORY FLOOR*

Hans Kull

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Mass Customization Opportunities Methods And Challenges For Manufacturers

Blecker, Thorsten, Friedrich, Gerhard



Mass Customization Opportunities Methods And Challenges For Manufacturers:

Mass Customization Hans Kull, 2015 This book examines business opportunities considerations and challenges manufacturers and industries must weigh before committing to the significant investment in machinery and software needed to go to mass customization The author describes proven methods and latest technologies for making mass customization work seamlessly and profitably on the factory floor Topics include ICT technologies such as cloud computing and 3D modeling scanning and printing that facilitate design specification and customer interaction interface devices transforming the factory floor such as gesture recognition Brainwriter and Google Glass manufacturing technologies such as IoT AM advanced robotics assistive automation advanced composite materials and nanotechnology software integration in the cloud of sophisticated algorithms for automatic quoting and supply chain management agile teams and practices for optimizing mass customization system performance

Mass Customized Manufacturing Vladimir Modrak, 2017-02-17 This book brings several original contributions to research and practical applications in the field of mass customization from the designer manufacturer and customer perspectives respectively It presents advancements in product design for mass customization design of assembly and supply chain processes variety induced complexity models complexity management marketing tools information systems to support decision making and critical success factors of this manufacturing and marketing strategy A special focus of interest is also on the use of product configurators in practice and sustainability assessment for mass customization strategy The aim is to disseminate current developments and approaches for further theoretical investigation and practical applications of mass customized manufacturing systems

Research into Design for Communities, Volume 1 Amaresh Chakrabarti, Debkumar Chakrabarti, 2017-02-24 This book showcases cutting edge research papers from the 6th International Conference on Research into Design ICoRD 2017 the largest in India in this area written by eminent researchers from across the world on design process technologies methods and tools and their impact on innovation for supporting design for communities While design traditionally focused on the development of products for the individual the emerging consensus on working towards a more sustainable world demands greater attention to designing for and with communities so as to promote their sustenance and harmony within each community and across communities The special features of the book are the insights into the product and system innovation process and the host of methods and tools from all major areas of design research for the enhancement of the innovation process The main benefit of the book for researchers in various areas of design and innovation are access to the latest quality research in this area with the largest collection of research from India For practitioners and educators it is exposure to an empirically validated suite of theories models methods and tools that can be taught and practiced for design led innovation The contents of this volume will be of use to researchers and professionals working in the areas on industrial design manufacturing consumer goods and industrial management

Mass Customization Charu Chandra, Ali K. Kamrani, 2011-06-28 Mass Customization A Supply Chain

Approach is a text on the emerging topic of mass customization in manufacturing The contributed chapters in this book provide a unified treatment to the topic by offering coverage in four main categories concepts and current state of research problem solving frameworks models and methodologies supportive techniques and technologies for enabling mass customization and future research agenda The book blends theory and practice and includes prototypical applications to illustrate this complex yet emerging field of inquiry

New Industry 4.0 Advances in Industrial IoT and Visual Computing for Manufacturing Processes Luis Norberto López de Lacalle, Jorge Posada, 2020-03-18 Modern factories are experiencing rapid digital transformation supported by emerging technologies such as the Industrial Internet of things IIOT industrial big data and cloud technologies deep learning and deep analytics AI intelligent robotics cyber physical systems and digital twins complemented by visual computing including new forms of artificial vision with machine learning novel HMI simulation and visualization This is evident in the global trend of Industry 4 0 The impact of these technologies is clear in the context of high performance manufacturing Important improvements can be achieved in productivity systems reliability quality verification etc Manufacturing processes based on advanced mechanical principles are enhanced by big data analytics on industrial sensor data In current machine tools and systems complex sensors gather useful data which is captured stored and processed with edge fog or cloud computing These processes improve with digital monitoring visual data analytics AI and computer vision to achieve a more productive and reliable smart factory New value chains are also emerging from these technological changes This book addresses these topics including contributions deployed in production as well as general aspects of Industry 4 0

Handbook of Research in Mass Customization and Personalization Frank T. Piller, 2010 A growing heterogeneity of demand the advent of long tail markets exploding product complexities and the rise of creative consumers are challenging companies in all industries to find new strategies to address these trends Mass customization MC has emerged in the last decade as the premier strategy for companies in all branches of industry to profit from heterogeneity of demand and a broad scope of other customer demands The research and practical experience collected in this book presents the latest thinking on how to make mass customization work More than 50 authors from academia and management debate on what is viable now what did not work in the past and what lurks just below the radar in mass customization personalization and related fields Edited by two leading authorities in the field of mass customization both volumes of the book discuss among many other themes the latest research and insights on customization strategies product design for mass customization virtual models co design toolkits customization value measurement open source architecture customization communities and MC supply chains Through a number of detailed case studies prominent examples of mass customization are explained and evaluated in larger context and perspective

Handbook Of Research In Mass Customization And Personalization (In 2 Volumes) - Volume 1: Strategies And Concepts; Volume 2: Applications And Cases Frank T Piller, Mitchell M Tseng, 2009-12-30 A growing heterogeneity of demand the advent of long tail markets exploding product

complexities and the rise of creative consumers are challenging companies in all industries to find new strategies to address these trends Mass customization MC has emerged in the last decade as the premier strategy for companies in all branches of industry to profit from heterogeneity of demand and a broad scope of other customer demands The research and practical experience collected in this book presents the latest thinking on how to make mass customization work More than 50 authors from academia and management debate on what is viable now what did not work in the past and what lurks just below the radar in mass customization personalization and related fields Edited by two leading authorities in the field of mass customization both volumes of the book discuss among many other themes the latest research and insights on customization strategies product design for mass customization virtual models co design toolkits customization value measurement open source architecture customization communities and MC supply chains Through a number of detailed case studies prominent examples of mass customization are explained and evaluated in larger context and perspective

Commercializing Innovation Jerome Schaufeld, 2015-08-19 Commercializing Innovation Turning Technology Breakthroughs into Products shows how to turn ideas from R D labs universities patent offices and inventors into commercially successful products and services Commercializing technology has never been easy and it s getting tougher all the time All the decisions you need to make are complicated by today s breakneck rates of change in enabling technology and by competitive pressures disseminated globally at the speed of the internet Where to get ideas Which to pursue Whom to hire Where to manufacture How to fund Create a startup or license to another To answer these questions adequately and bring sophisticated products and services successfully to market you need to deploy the systematic methods detailed in this book Jerry Schaufeld serial technology entrepreneur angel investor and distinguished professor of entrepreneurship presents in detail his proven step by step commercialization process beginning with technology assessment and culminating with the successful launch of viable products into the global market Using case studies models and practical tips culled from his entrepreneurial career he shows readers of Commercializing Innovation how to Source technology that can be turned into products Recognize an opportunity to create a viable product Perform feasibility analyses before sinking too much money into a project Find the right method and means to introduce the product to market Plan the project down to the last detail Execute the project in ways that improve chances of its success Comply with government regulation without crippling your project Decide whether offshore manufacturing is your best option Compete globally with globally sourced ideas and funding

Computational Intelligence Assisted Design Yi Chen, Yun Li, 2018-06-19 Computational Intelligence Assisted Design framework mobilises computational resources makes use of multiple Computational Intelligence CI algorithms and reduces computational costs This book provides examples of real world applications of technology Case studies have been used to show the integration of services cloud big data technology and space missions It focuses on computational modelling of biological and natural intelligent systems encompassing swarm intelligence fuzzy systems artificial neural networks artificial immune systems and

evolutionary computation This book provides readers with wide scale information on CI paradigms and algorithms inviting readers to implement and problem solve real world complex problems within the CI development framework This implementation framework will enable readers to tackle new problems without difficulty through a few tested MATLAB source codes

Technological Forms and Ecological Communication Piyush Mathur,2017-09-25 Investigating the phenomena of technology science technique and mass communication Piyush Mathur contends that the enterprise of science communication may be misleading vis vis technology if in part because it frequently coextends with a flawed but dominant notion of science that presumptuously implicates technology anyway Grappling with what authentically constitutes science and the prospective effects of its realization on a global future of mass communication Mathur explores how various technological forms play specifically into ecologically sensitive mass communication The result is an eco communicative theory of technology that includes its classification based upon a set of qualitative principles and a profile of the notion of development On the whole though Technological Forms and Ecological Communication A Theoretical Heuristic brings the fields of philosophy and history of science philosophy and sociology of technology communication studies and development studies into conversation with one another

The Customer Trap Andrew R. Thomas,Timothy J. Wilkinson,2015-04-07 American business is dysfunctional Companies of all sizes follow the mistaken belief that their products and services are best sold through mega customers with pervasive market reach such as Amazon and Walmart Far too many business leaders fail to realize until it is too late that the relentless pursuit of volume at all cost is not the key to long term profits and success The Customer Trap How to Avoid the Biggest Mistake in Business is Thomas and Wilkinson s sequel to The Distribution Trap Keeping Your Innovations from Becoming Commodities which won the Berry American Marketing Association Prize for the best marketing book of 2010 The Distribution Trap contended that cracking the big box channel is not necessarily the Holy Grail that many marketers assume it is The Customer Trap takes this thesis to the next level by arguing that all companies regardless of the industry there are in should maintain control over their sales and distribution channels Volume forgone by avoiding the mass market is more than offset by higher margins and stronger brand equity The Customer Trap shows that giving power to a customer who violates the ten percent rule sets a company up for ruin Yet when presented with the opportunity to push more sales through large customers most decision makers jump at the chance As a result marketing has come to resemble a relentless quest for efficiency and scale Demands from mega customers in the form of discounts deals and incentives erode the integrity of the brand and what it originally stood for Lower margins become the norm and cost saving compromises on quality take over In time the brand suffers and in some cases fails outright Stark examples from Oreck Vacuum Cleaners Rubbermaid Goodyear Levi s and others illustrate the perils of falling into the customer trap This book demonstrates in vivid detail how to thrive bycontrolling your sales and distribution The authors show how many firms such as STIHL Inc etailz Apple Red Ant Pants and Columbia Paints Coatings have prospered by avoiding the customer trap

and how your company can have similar success **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 **Research in Mass Customization and Personalization** Mitchell, Frank T. Piller, 2009-12-01

A growing heterogeneity of demand the advent of long tail markets exploding product complexities and the rise of creative consumers are challenging companies in all industries to find new strategies to address these trends Mass customization MC has emerged in the last decade as the premier strategy for companies in all branches of industry to profit from heterogeneity of demand and a broad scope of other customer demands The research and practical experience collected in this book presents the latest thinking on how to make mass customization work More than 50 authors from academia and management debate on what is viable now what did not work in the past and what lurks just below the radar in mass customization personalization and related fields Edited by two leading authorities in the field of mass customization both volumes of the book discuss among many other themes the latest research and insights on customization strategies product design for mass customization virtual models co design toolkits customization value measurement open source architecture customization communities and MC supply chains Through a number of detailed case studies prominent examples of mass customization are explained and evaluated in larger context and perspective **Mass Customization: Concepts - Tools - Realization**

Thorsten Blecker, 2005 *Mass Customization Information Systems in Business* Blecker, Thorsten, Friedrich, Gerhard, 2007-04-30 This book describes original innovative works on IT systems for mass customization and provides a multitude of solutions tools concepts and successful realizations of IT systems for mass customization It discusses state of the art mass customization while depicting the importance of IT in making the strategy function efficiently in order to support

the business processes required for manufacturing individualized products Provided by publisher *The Cultural Influence on Mass Customization* Carolin Wabia, 2020-08-11 This thesis empirically proofs a cultural influence on mass customization the personalization of mass products towards individual tastes a topic of increasing importance in today's international markets Based on quantitative research the author observes differences in preferences among German and Chinese participants for varying product groups and mass customization stages Contrasts in willingness to pay for mass customized goods are explored and the investigated cultural influence is attributed to specific cultural dimensions

Selected Articles from the International Conference on Sustainable Fashion and Technical Textiles Sudev Dutta, Payal Bansal, Ashish Kapoor, C. C. Reddy, Prabhuraj Venkatraman, 2025-03-10 This book includes peer reviewed articles from ICSFT 2024 held on 12 November at Jalandhar in India It highlights the future of eco friendly fashion and the development of advanced textile technologies and practices to reduce the environmental impact of fashion industry It encompasses the creation and application of new materials production processes and design strategies that prioritize sustainability resource efficiency and reduced waste It highlights the integration of eco friendly practices in textile manufacturing such as the use of biodegradable fibers recycled materials and sustainable dyeing techniques aiming to transform the fashion industry into a more environmentally responsible sector while maintaining high performance and functionality in textiles By highlighting successful case studies and emerging trends the book provides a comprehensive overview of how sustainability is being integrated into the technical textiles sector Perfect for professionals researchers and enthusiasts this resource underscores the importance of sustainability in creating a more responsible and environmentally friendly fashion landscape

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

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 *Mass Customization for Personalized Communication Environments: Integrating Human Factors* Mourlas, Constantinos, Germanakos, Panagiotis, 2009-10-31 This book focuses on the customization of services and communication environments to advance user satisfaction Provided by publisher

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web the field of industrial robotics encompasses the study design and use of robot systems for manufacturing¹ and how to integrate them into production lines the field has been undergoing steady advancements in the past few decades

web j c marshall department of chemistry saint olaf college northfield in this paper we will discuss the interface between expert systems and laboratory robotics we will use examples from our recent research to illustrate how we are building an effective interface and indicate where we think this research will lead what are expert systems

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