

Modernizing Ergonomics Through Additive Manufacturing Technology



Mohd Imran Khan , Shahbaz Khan , and Abid Haleem 

Abstract Being an advanced manufacturing technology, additive manufacturing is competent in producing a highly customized product, irrespective of the complexity involved, by simply adding materials layer after layer and building the whole part in one unit. The purpose of this paper is to align ergonomics with modern manufacturing methods explicitly additive manufacturing technology. This paper also analyses the existing problems and challenges faced by the workforce working on the shop floor due to the unavailability of individual customization. Additive manufacturing technology has a capability to produce customized pieces of equipment which are ergonomically fit for individual users. This paper may help to understand the scope of additive manufacturing technology in humanizing work and work environment. This paper aims to provide references for the development direction of additive manufacturing technology in the area of ergonomics.

Keywords Additive manufacturing technology · Ergonomics · Customization · Rapid prototyping · Workforce · 3D technology

1 Introduction

Additive manufacturing (AM) technology is based on the principle of accumulation of material, instead of material subtraction as in traditional manufacturing methods, and it is considered to be a disruptive technology in the field of manufacturing [1, 2]. Through this technology, it became possible to manufacture the entire component by means of the gradual accumulation of material. Term AM is generally used for all the technologies which can produce a 3D entity directly in physical form

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Ergonomics In Advanced Manufacturing Technology

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Ergonomics In Advanced Manufacturing Technology:

Ergonomics Matters in Advanced Manufacturing Technology G. I. Johnson, J. R. Wilson, 1988

Organization and Management of Advanced Manufacturing Waldemar Karwowski, Gavriel Salvendy, 1994-03-31 Takes into account the effective use of human factors issues in advanced manufacturing which would make the difference between the failure or success of industrial corporations International authorities describe how to implement methods and techniques applicable on a global basis into manufacturing and process industries where change is being brought about as they move to concurrent engineering formats of operation

Advanced Manufacturing Technology, 1988

Ergonomics Matters in Advanced Manufacturing Technology G. I. Johnson, J. R. Wilson, 1988

Advances in Ergonomics In Design, Usability & Special Populations: Part II Francisco Rebelo, Marcelo Soares, 2022-07-19 Successful interaction with products tools and technologies depends on usable designs and accommodating the needs of potential users without requiring costly training In this context this book is concerned with emerging ergonomics in design concepts theories and applications of human factors knowledge focusing on the discovery design and understanding of human interaction and usability issues with products and systems for their improvement This book will be of special value to a large variety of professionals researchers and students in the broad field of human modeling and performance who are interested in feedback of devices interfaces visual and haptic user centered design and design for special populations particularly the elderly We hope this book is informative but even more that it is thought provoking We hope it inspires leading the reader to contemplate other questions applications and potential solutions in creating good designs for all

Design of Work and Development of Personnel in Advanced Manufacturing Gavriel Salvendy, Waldemar Karwowski, 1994-03-31 Presents a framework of worldwide problems issues and solutions relevant to the design of work and development of personnel in advanced manufacturing systems Focuses on people and their central roles in automated production resulting from rapid computer based integration Addresses social technical organizational managerial and ecological design issues relating to manufacturing success and the business objectives of a firm Provides solutions to problems of integrating the human element into the production process

Macroergonomics for Manufacturing Systems Arturo Realyvásquez Vargas, Aide Aracely Maldonado-Macias, Jorge Luis García-Alcaraz, 2017-10-24 This book introduces the main concepts of manufacturing systems and presents several evaluation approaches for these systems evaluation The relevant macroergonomics methods are summarized and the theoretical framework for Macroergonomic Compatibility construct is explained This book presents a Macroergonomic Compatibility Model which proposes an instrument in the form of a Macroergonomic The authors introduce a methodology to obtain a novel Macroergonomic Compatibility Index that enables manufacturing companies to assess and follow their progress on the implementation of macroergonomics practices

Ergonomics of Hybrid Automated Systems I Waldemar Karwowski, H. R. Parsaei, Mickey R. Wilhelm, 1988 This volume contains a selection of 89 of the 122 papers presented at the first international

conference on Ergonomics of Advanced Manufacturing and Hybrid Automated Systems The number and quality of proposals submitted for technical presentations testify to the importance of human aspects in implementing and managing advanced manufacturing technology and other computer based automated systems It also justifies the need for an international forum to discuss new ideas and exchange observations regarding the impact of technological progress on societies around the world Hybrid automated systems which combine human and machine intelligence create progressively more and more challenges for workers management consumers and government Recent developments in advanced manufacturing technology which include computer integrated manufacturing computer aided design and engineering computer aided process planning and manufacturing resource planning pose significant questions with respect to human involvement in hybrid automated systems

Advances in Ergonomics of Manufacturing: Managing the Enterprise of the Future Christopher Schlick, Stefan Trzcieliński, 2016-07-26 This book discusses the latest advances in people centered design operation and management of broadly defined advanced manufacturing systems and processes It reports on human factors issues related to various research areas such as intelligent manufacturing technologies web based manufacturing services digital manufacturing worlds and manufacturing knowledge support systems as well as other contemporary manufacturing environments The book covers an extensive range of applications of human factors in the manufacturing industry from work design supply chains evaluation of work systems and social and organization design to manufacturing systems simulation and visualization automation in manufacturing and many others Special emphasis is given to computer aided manufacturing technologies supporting enterprises both in general and in the manufacturing industry in particular such as knowledge based systems virtual reality artificial intelligence methods and many more Based on the AHFE 2016 International Conference on Human Aspects of Advanced Manufacturing held on July 27 31 2016 in Walt Disney World Florida USA the book provides readers with a timely snapshot of the enterprises of the future and a set of cutting edge technologies and methods for building innovative human centered and computer integrated manufacturing systems

Handbook of Research on Managerial Strategies for Achieving Optimal Performance in Industrial Processes Alor-Hernández, Giner, Sánchez-Ramírez, Cuauhtémoc, García-Alcaraz, Jorge Luis, 2016-05-03 Competitive advantage is a key factor to the success of any business in modern society To achieve this goal effective strategies for process improvement must be researched and implemented into an organization The Handbook of Research on Managerial Strategies for Achieving Optimal Performance in Industrial Processes examines optimization techniques for improved business operations and procedures in the industrial sector Highlighting management techniques innovative approaches and technological tools this publication is an essential reference source for professionals researchers consultants upper level students and academicians interested in the advancement of knowledge in industrial communities

The New Workplace David Holman, Toby D. Wall, Chris W. Clegg, Paul Sparrow, Ann Howard, 2003-07-07 Just in time total quality management lean manufacturing call centres team work empowerment most

people in business have heard these buzz words often offered as a panacea to all profit ills So why don t they always work Can you combine them anyhow If not why not The New Workplace Handbook is a comprehensive guide to the evidence available on how modern working practices and technology affect the people in organizations Within a broad psychological framework leading experts examine how people work their experience of work the impact on productivity and performance and the human resource implications Guidance is offered on a range of different methods tools and practices that can be used to guide the design and implementation of modern working practices to ensure that pitfalls are avoided and the best possible results are obtained from new initiatives Indispensable for consultants this Handbook will also be useful for students and scholars in the psychology of business human resource professionals and anyone involved in the management of new working practices

Macroergonomics Hal W. Hendrick, Brian Kleiner, 2002-04-01 This book s primary objective is to provide a comprehensive coverage of ergonomics in overall work system analysis and design It provides a summary of the historical development of macroergonomics It explains how an understanding of macroergonomics can lead to improvements in such things as reducing work related lost time accidents and describes the methods and tools used in work system analysis and design Throughout the integrating theme is that the full potential of an organization in terms of productivity safety health and Quality of Work Life QWL can t be met unless the overall work system is designed to conform with the characteristics of its technology personnel subsystem and the external environment upon which it depends for its survival and success Using a sociotechnical systems approach this text discusses the application of macroergonomics to training system development hazard management technology transfer large scale organizational change projects office and factory automation community planning and development and job design For each of these applications actual case examples will be included The book will appeal to teachers of introductory human factors ergonomics courses as a supplemental text or as the primary text for a course fully devoted to macroergonomics In addition it should also appeal to practicing ergonomists internationally as a must add to their personal professional libraries

Ergonomics of Hybrid Automated Systems III Waldemar Karwowski, 1992-01-01 There is a great worldwide social experiment where different models of manufacturing are competing with each other A growing gap of performance is emerging between a small number of pioneer manufacturers substantially renewing their industries and mainstream businesses still following rather traditional perspectives of rationalization The successful innovators having implemented new models of production are able to achieve quantum leaps in economic performance and competitiveness with respect to productivity lead time or innovation capability This indicates that the development and comprehensive use of human abilities skills and expertise are crucial The role of humans and the functions of technology in manufacture are shifting weights and it is obvious that a holistic approach to work design is required which considers the mutual dependencies of people s needs organisation and technology The 73 papers organized in six sections in this volume reflect the variety and complexity of the problems inherent in the design implementation and

management of advanced manufacturing systems The first part entitled Design of Advanced Manufacturing Systems 20 papers addresses issues of design of advanced manufacturing systems as a unity of people organization and technology The second part 20 papers deals with more details questions of Shaping Computer Technology and Work Design in important sub systems of manufacturing The third part 12 papers is devoted to Human Computer Interaction issues from different angles and for various domains of work in the factory environment Part IV 9 papers presents papers devoted to various aspects of Human Resources Management Papers allocated to part V 6 papers discuss the important issues of Skill Formation and Training associated with the renewal of the factory Finally part VI 5 papers deals with the improvement of Safety issues in computerized manufacturing systems

New Technical Books New York Public Library,1989 Lean Manufacturing in the Developing World Jorge Luis García-Alcaraz,Aidé Aracely Maldonado-Macías,Guillermo Cortes-Robles,2014-03-27 This book presents some definitions and concepts applied in Latin America on lean manufacturing LM the LM tools most widely used and human and cultural aspects that most matter in this field The book contains a total of 14 tools used and reported by authors from different countries in Latin America with definition timeline with related research benefits that have been reported in literature and case studies implemented in Latin American companies Finally the book presents a list of softwares available to facilitate the tools implementation monitoring and improvement

4th Mechanical and Manufacturing Engineering Al Emran Ismail,Nik Hisyamudin Muhd Nor,Mas Fauzi Mohd Ali,Rosli Ahmad,Ibrahim Masood,Abdul Latif Mohd Tobi,Mohammad Fahmi Abdul Ghafir,Musli Mohammad,Md. Saidin Wahab,Badrul Aisham Md Zain,Waluyo Adi Siswanto,2013-12-19 Selected peer reviewed papers from the 4th International Conference on Mechanical and Manufacturing Engineering ICME 2013 December 17 18 2013 Bangi Putrajaya Malaysia **SAE Technical Paper Series**,1999 *The Essentials of the New Workplace* David Holman,Toby D. Wall,Chris W. Clegg,Paul Sparrow,Ann Howard,2005-05-05 The original hardback edition of The New Workplace examined modern business terms such as total quality management just in time production e business lean manufacturing and teleworking It explored what these terms really mean and what effect they have in practice especially their impact on productivity and performance and their social and psychological consequences This paperback is a shorter revised version of the original book It will focus on working practices especially technology orientated ones which are the most relevant and innovative for consultants

Ergonomics International 88 International Ergonomics Association. Congress,1988 **Mechanical, Materials and Manufacturing Engineering** Hong Hua Tan,2011-07-04 Selected peer reviewed papers from the 2011 International Conference on Mechanical Materials and Manufacturing Engineering ICMMME 2011 in June 20 22 2011 Nanchang China

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