

Lihui Wang
Andrew Y.C. Nee
Editors

Collaborative Design and Planning for Digital Manufacturing

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Pedro Filipe Cunha, Paul G. Maropoulos



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Collaborative design has attracted much attention in the research community in recent years. With increasingly decentralized manufacturing systems and processes, more collaborative approaches and systems are needed to support distributed manufacturing operations. Collaborative Design and Planning for Digital Manufacturing presents a focused collection of quality chapters on the state of the art research efforts in the area of collaborative design and planning as well as their practical applications towards digital manufacturing. Collaborative Design and Planning for Digital Manufacturing provides both a broad based review of the key areas of research in digital manufacturing and an in depth treatment of particular methodologies and systems from collaborative design to distributed planning, monitoring and control. Recent development and innovations in this area provide a pool of focused research efforts relevant to a wide readership from academic researchers to practicing engineers.

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Manufacturing Systems and Technologies for the New Frontier Fumihiko Kimura, 2008-05-19 Collected here are 112 papers concerned with new directions in manufacturing systems given at the 41st CIRP Conference on Manufacturing Systems. The high quality material includes reports of work from both scientific and engineering standpoints.

Mechatronics and Applied Mechanics Jing Guo, 2012-02-27 Selected peer reviewed papers from the 2011 International Conference on Mechatronics and Applied Mechanics ICMAM 2011 December 27-28 2011 Hong Kong.

Digital Factory for Human-oriented Production Systems Luca Canetta, Claudia Redaelli, Myrna Flores, 2011-07-10 Digital factory is a comprehensive approach providing methodologies, models and tools that support manufacturing enterprises in the rearrangement of their organizational structures to deal with expected changes in manufacturing processes and markets. Digital Factory for Human oriented Production Systems investigates the impact of the digital factory through a consideration of the entire product process lifecycle and the broad network of product engineering, material and component suppliers, manufacturing equipment suppliers and customers.

involved in current and next generation manufacturing It covers the utilization and integration of human body ergonomics models production system discrete event simulation 3D virtual and augmented reality visualization collaborative design tools automatic data capture and knowledge management systems based on semantic web ontologies integrated by a continuous data management The coverage of various types of factory and manufacturing phases representations and simulations allows researchers in academia and industry to perform a dynamic analysis and up to date modeling of the processes involved Digital Factory for Human oriented Production Systems describes the tools that allow a move towards the integrated digital factory and underlines the business impact that companies can obtain by adopting these tools As well as benefiting international organizations the proposed methodologies and technologies have also been developed in order to facilitate their adoption by small or medium sized businesses making them relevant to all product engineers and managers who want improve the efficiency and effectiveness of their enterprises

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Proceedings of the 6th CIRP-Sponsored International Conference on Digital Enterprise Technology

George Q. Huang,K.L. Mak,Paul G. Maropoulos,2009-12-12 This Proceedings volume contains articles presented at the CIRP Sponsored International Conference on Digital Enterprise Technology DET2009 that takes place December 14 16 2009 in Hong Kong This is the 6th DET conference in the series and the first to be held in Asia Professor Paul Maropoulos initiated hosted and chaired the 1st International DET Conference held in 2002 at the University of Durham Since this inaugural first DET conference DET conference series has been successfully held in 2004 at Seattle Washington USA in 2006 at Setubal Portugal in 2007 at Bath England and in 2008 at Nantes France The DET2009 conference continues to bring together International expertise from the academic and industrial fields pushing forward the boundaries of research knowledge and best practice in digital enterprise technology for design and manufacturing and logistics and supply chain management Over 120 papers from over 10 countries have been accepted for presentation at DET2009 and inclusion in this Proceedings volume after stringent refereeing process On behalf of the organizing and program committees the Editors are grateful to the many people who have made DET2009 possible to the authors and presenters especially the keynote speakers to those who have diligently reviewed submissions to members of International Scientific Committee Organizing Committee and Advisory Committees and to colleagues for their hard work in sorting out all the arrangements We would also like to extend our gratitude to DET2009 sponsors co organizers and supporting organizations

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Maropoulos,2007-09-18 The first Digital Enterprise Technology DET International Conference was held in Durham UK in 2002 and the second DET Conference in Seattle USA in 2004 Sponsored by CIRP College International pour la Recherche en Productique the third DET Conference took place in Setubal Portugal in 2006 Digital Enterprise Technology Perspectives and Future Challenges is an edited volume based on this conference Topics include distributed and collaborative design process

modeling and process planning advanced factory equipment and layout design and modeling physical to digital environment integrators enterprise integration technologies and entrepreneurship in DET **E-business** Michael J. Bauer, 2001

Fabricate 2024 Bob Sheil, Marilena Skavara, Mette Ramsgaard Thomsen, Phil Ayres, 2024-04-04 *Fabricate 2024* Creating Resourceful Futures is the fifth volume in the series of *Fabricate* publications The first conference Making Digital Architecture explored the ways in which technology design and industry are shaping the world around us Since then we have become finely attuned to the negative impacts of this shaping The 2024 conference hosted in Copenhagen sets focus on the pressing need to develop new models for architectural production that rethink how resource is deployed its intensity its socio ecological origins and sensitivity to environment This book features the work of designers engineers and makers operating within the built environment It documents disruptive approaches that reconsider how fabrication can be leveraged to address our collective and entangled challenges of resource scarcity climate emergency and burgeoning demand Exploring case studies of completed buildings and works in progress together with interviews with leading thinkers this edition of *Fabricate* offers a plurality of tangible models for design and production that set a creative and responsible course towards resourceful futures **The British National Bibliography** Arthur James Wells, 2009 *Harvard Design Magazine*, 2006

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