CIRP - The International Academy for Production Engineering

Sami Chatti · Luc Laperrière Gunther Reinhart · Tullio Tolio *Editors*

CIRP Encyclopedia of Production Engineering

Second Edition





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variety of terms were reviewed by the CIRP Community representing the highest standards in research Thus the content is not only evaluated internationally on a high scientific level but also reflects very recent developments **Production** Christian Brecher, Günther Schuh, Wil van der Aalst, Matthias Jarke, Frank T. Piller, Melanie Padberg, 2023-12-29 This seminal compendium available through open access illuminates the forefront of digital collaboration in production It introduces the visionary concept of the Internet of Production IoP an ambitious initiative by Germany's esteemed Cluster of Excellence at RWTH Aachen University This handbook pioneers the integration of data models and knowledge across development production and user cycles offering interdisciplinary insights into production technology s horizons with the overall objective to create a worldwide lab The work is organized into seven key parts each contributing to a comprehensive understanding of the IoP Part I lays the foundation with interdisciplinary visions and concepts Part II delves into IoP s infrastructure encompassing digital shadows and actionable artificial intelligence Part III examines materials within the digitalized production landscape Part IV confronts the challenges and potentials of production processes under novel digitalization methods Part V focuses on production management with data driven decision support while Part VI explores agile development processes Finally Part VII delves into the interplay between internal and external perspectives in the IoP human centered work design and platform based ecosystems Supported by the German Research Foundation DFG this compendium redefines manufacturing through the transformative IoP lens Embrace this scholarly endeavor to embrace technological advancement This is an open access book **Enterprise Interoperability IX** Bernard Archimède, Yves Ducg, Bob Young, Hedi Karray, 2023-02-18 This book gathers the proceedings of the I ESA 20 Conference which was organised by the National Engineering School of Tarbes ENIT on behalf of the European Virtual Laboratory for Enterprise Interoperability INTEROP VLab and the Pole Grand Sud Ouest PGSO and was held virtually in Tarbes France in November 2020 It presents contributions ranging from academic research and case studies to industrial and administrative experiences with interoperability These contributions show how in a globalised market scenario where the ability to cooperate with other organisations efficiently is essential in order to remain economically socially and environmentally cost effective the most innovative digitised and networked enterprises ensure that their systems and applications can interoperate across heterogeneous collaborative networks of independent organisations. The focus of this edition of the conference is on interoperability in the era of artificial intelligence and so particular attention is paid to Industry 4 0 and the Internet of Things The content also addresses smart services and the business impact of enterprise interoperability on organisations Many of the papers in this tenth volume of the I ESA Conference proceedings include examples and illustrations to help deepen readers understanding and generate new ideas Offering a detailed guide to the state of the art in systems interoperability the book will be of great value to all engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in academic settings

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