

HANDBOOK OF LIFE CYCLE ENGINEERING

Concepts, models and technologies

EDITED BY

A. MOLINA, A. KUSIAKA AND J. SANCHEZ



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Handbook Of Life Cycle Engineering Concepts Models And Technologies

Surendra M. Gupta



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Handbook of Life Cycle Engineering Arturo Molina, José M. Sánchez, Andrew Kusiak, 1999-01-31 This handbook focuses on a series of concepts models and technologies which can be used to improve current practice in life cycle engineering in manufacturing companies around the world Experts on the main issues relating to life cycle engineering have produced a superb collection of chapters All the contributing authors are researchers and engineers in the fields of manufacturing paradigms enterprise integration product life cycle and technologies for life cycle engineering Academics and researchers will find this book to be a valuable reference tool The book illustrates those key factors that ensure successful enterprise and product life cycle integration Due to the book being developed as a joint industry and university project its approach should be helpful to both practising professionals and academics An overview of life cycle engineering concepts models methodologies and practices that have been proved to significantly improve the integration and productivity of manufacturing companies have been clearly explained in this handbook This book will be essential for engineers designers product support personnel dealing with enterprise engineering projects It will also be of immense use to lecturers and senior lecturers working in the fields of enterprise integration product development concurrent engineering and integrated manufacturing systems

Handbook on Enterprise Architecture Peter Bernus, Laszlo Nemes, Günter Schmidt, 2012-12-06 This Handbook is about methods tools and examples of how to architect an enterprise through considering all life cycle aspects of Enterprise Entities such as individual enterprises enterprise networks virtual enterprises projects and other complex systems including a mixture of automated and human processes The book is based on ISO15704 2000 or the GERAM Framework Generalised Enterprise Reference Architecture and Methodology that generalises the requirements of Enterprise Reference Architectures Various Architecture Frameworks PERA CIMOSA Grai GIM Zachman C4ISR DoDAF are shown in light of GERAM to allow a deeper understanding of their contributions and therefore their correct and knowledgeable use The handbook addresses a wide variety of audience and covers methods and tools necessary to design or redesign enterprises as well as to structure the implementation into manageable projects

Environment Conscious Manufacturing Surendra M. Gupta, A.J.D. (Fred) Lambert, 2007-12-19 Hotter temperatures less arctic ice loss of habitat every other day it seems global warming and environmental issues make headlines Consumer driven environmental awareness combined with stricter recycling regulations have put the pressure on companies to produce and dispose of products in an environmentally responsible manner Redefining indus

Enabling Systems for Intelligent Manufacturing in Industry 4.0 Arturo Molina, Pedro Ponce, Jhonattan Miranda, Daniel Cortés, 2021-02-08 This book

introduces the concept of sensing smart and sustainable systems S3 systems to support the design and redesign of products services business and manufacturing processes manufacturing systems and enterprises The concept of S3 systems theory is introduced and explained in detail to support designers and engineers in their development task This approach is embraced

in the implementation of emergent Information and communication technologies and artificial intelligence techniques The text helps the reader to understand the relationship between intelligent manufacturing S3 systems and Industry 4.0 It presents a review of current approaches to design and development of technology based products Finally it enlarges on the sensing smart and sustainable systems theory to give examples of S3 systems as case studies *Handbook of Enterprise Systems Architecture in Practice* Saha, Pallab, 2007-03-31 This book is a valuable addition to the reading list of executives managers and staff in business government and other sectors who seek to keep their enterprises agile and efficient as they manage change implement new business processes and supporting technologies and pursue important strategic goals

Provided by publisher **Network-Centric Collaboration and Supporting Frameworks** Luis M.

Camarinha-Matos, Hamideh Afsarmanesh, Martin Ollus, 2007-06-09 Collaborative Networks is a fast developing area as shown by the already large number of diverse real world implemented cases and the dynamism of its related involved research community Being recognized as the most focused scientific and technical conference on Collaborative Networks PRO VE continues to offer the opportunity for presentation and discussion of both the latest research developments as well as the practical application case studies Product Design for the Environment Fabio Giudice, Guido La Rosa, Antonino

Risitano, 2006-01-13 In recent years the increased awareness of environmental issues has led to the development of new approaches to product design known as Design for Environment and Life Cycle Design Although still considered emerging and in some cases radical their principles will become by necessity the wave of the future in design A thorough exploration of t

Air Transport and Operations Richard Curran, Wim J.C. Verhagen, Frank van der Zwan, Adel Ghobbar, Wouter Beelaerts van Blokland, Sicco C. Santema, 2012-01-15 This book presents the proceedings of the Second International Air Transport and Operations Symposium ATOS 2011 held at Delft University of Technology in the Netherlands The focus of ATOS 2011 and this proceedings is on how air transport can evolve in order to continue to add value in the 21st Century given its incredible impact in the 20th Century The book covers a whole range of topics Aircraft Design and Future Concepts Air Transport Economics Air Transport Environment and Safety Aircraft Lifecycle Value Engineering Personal Air Transport System PATS Airports and Air Traffic Management ATM In this collection of articles the reader will find plenty of stimulating research and challenging ideas to help achieve these goals as we venture into the 2nd century of aviation *Intelligent*

*Production Machines and Systems - First I*PROMS Virtual Conference* Duc T. Pham, 2005-12-09 The 2005 Virtual International Conference on IPROMS took place on the Internet between 4 and 15 July 2005 IPROMS 2005 was an outstanding success During the Conference some 4168 registered delegates and guests from 71 countries participated in the Conference making it a truly global phenomenon This book contains the Proceedings of IPROMS 2005 The 107 peer reviewed technical papers presented at the Conference have been grouped into twelve sections the last three featuring contributions selected for IPROMS 2005 by Special Sessions chairmen Collaborative and Responsive Manufacturing Systems Concurrent

Engineering E manufacturing E business and Virtual Enterprises Intelligent Automation Systems Intelligent Decision Support Systems Intelligent Design Systems Intelligent Planning and Scheduling Systems Mechatronics Reconfigurable Manufacturing Systems Tangible Acoustic Interfaces Tai Chi Innovative Production Machines and Systems Intelligent and Competitive Manufacturing Engineering

Reverse Supply Chains Surendra M. Gupta, 2016-04-19 Winner of IIE Book of the Month December 2013 The introduction of reverse supply chains has created many challenges in network design transportation selection of used products selection and evaluation of suppliers performance measurement marketing related issues end of life EOL alternative selection remanufacturing disassembly and produc

Knowledge Sharing in the Integrated Enterprise Peter Bernus, Mark Fox, 2006-03-09 Enterprise Architects in their endeavor to achieve Enterprise Integration have limited guidance on how best to use Enterprise Models and Modeling Tools to support their practice It is widely recognized that the practice of engineering enterprises needs a number of models but how to maintain the relation between these models with ease is still a problem Model interoperability is an issue on multiple counts How to interchange models between enterprise modeling tools How to maintain the interdependencies between models whether they describe the enterprise on the same level but from different points of view or from the same point of view but on different levels of abstraction and granularity How to maintain a coherent and evolving set of enterprise models in support of continuous change processes How to use and reuse enterprise models as a knowledge resource The answers to these questions are of great importance to anyone who is implementing ISO9001 2000 requirements whether through using enterprise architecture practice or not although it can be argued that a well executed architecture practice should satisfy ISO9001 without additional effort This volume attacks the problem on three fronts 1 Authors working in international standardisation and tool development as well as in enterprise modeling research present the latest developments in semantic integration 2 Authors who are practitioners of or conducting active research in enterprise architecting methodologies give an account on the latest developments and strategic directions in architecture frameworks and methodologies 3 Authors who use or develop information integration infrastructures present best practice and future trends of this aspect of enterprise integration Chapters of this book include contributions to the International Conference on Enterprise Integration and Modelling Technology ICEIMT 04 and those presented at the Design of Information Infrastructure Systems for Manufacturing DIISM 04 Workshop While DIISM is traditionally oriented at supporting manufacturing practice the results have a far greater domain of applicability

Emerging Solutions for Future Manufacturing Systems Luis M. Camarinha-Matos, 2006-01-04 Industries and particularly the manufacturing sector have been facing difficult challenges in a context of socio economic turbulence characterized by complexity as well as the speed of change in causal interconnections in the socio economic environment In order to respond to these challenges companies are forced to seek new technological and organizational solutions In this context two main characteristics emerge as key properties of a modern automation system agility and distribution Agility

because systems need not only to be flexible in order to adjust to a number of a priori defined scenarios but rather must cope with unpredictability Distribution in the sense that automation and business processes are becoming distributed and supported by collaborative networks Emerging Solutions for Future Manufacturing Systems includes the papers selected for the BASYS 04 conference which was held in Vienna Austria in September 2004 and sponsored by the International Federation for Information Processing IFIP

Metal Cutting Theory and Practice David A. Stephenson, John S. Agapiou, 2018-09-03 A Complete Reference Covering the Latest Technology in Metal Cutting Tools Processes and Equipment Metal Cutting Theory and Practice Third Edition shapes the future of material removal in new and lasting ways Centered on metallic work materials and traditional chip forming cutting methods the book provides a physical understanding of conventional and high speed machining processes applied to metallic work pieces and serves as a basis for effective process design and troubleshooting This latest edition of a well known reference highlights recent developments covers the latest research results and reflects current areas of emphasis in industrial practice Based on the authors extensive automotive production experience it covers several structural changes and includes an extensive review of computer aided engineering CAE methods for process analysis and design Providing updated material throughout it offers insight and understanding to engineers looking to design operate troubleshoot and improve high quality cost effective metal cutting operations The book contains extensive up to date references to both scientific and trade literature and provides a description of error mapping and compensation strategies for CNC machines based on recently issued international standards and includes chapters on cutting fluids and gear machining The authors also offer updated information on tooling grades and practices for machining compacted graphite iron nickel alloys and other hard to machine materials as well as a full description of minimum quantity lubrication systems tooling and processing practices In addition updated topics include machine tool types and structures cutting tool materials and coatings cutting mechanics and temperatures process simulation and analysis and tool wear from both chemical and mechanical viewpoints Comprised of 17 chapters this detailed study Describes the common machining operations used to produce specific shapes or surface characteristics Contains conventional and advanced cutting tool technologies Explains the properties and characteristics of tools which influence tool design or selection Clarifies the physical mechanisms which lead to tool failure and identifies general strategies for reducing failure rates and increasing tool life Includes common machinability criteria tests and indices Breaks down the economics of machining operations Offers an overview of the engineering aspects of MQL machining Summarizes gear machining and finishing methods for common gear types and more Metal Cutting Theory and Practice Third Edition emphasizes the physical understanding and analysis for robust process design troubleshooting and improvement and aids manufacturing engineering professionals and engineering students in manufacturing engineering and machining processes programs

Innovation Performance and Clusters

Nicole Röttmer, 2011-06-21 While a strong research base on cluster assets exists evidence on other factors such as

capabilities i.e. a local culture or networks is anecdotal and dispersed across research streams Nicole Röttmer sets out to identify and describe these capabilities their impact on cluster innovativeness in the interplay with proprietary cluster resources and their development over time in a comprehensive model

Processes and Foundations for Virtual Organizations Luis M. Camarinha-Matos, Hamideh Afsarmanesh, 2013-06-05 Processes and Foundations for Virtual Organizations contains selected articles from PRO VE 03 the Fourth Working Conference on Virtual Enterprises which was sponsored by the International Federation for Information Processing IFIP and held in Lugano Switzerland in October 2003 This fourth edition includes a rich set of papers revealing the progress and achievements in the main current focus areas VO breeding environments Formation of collaborative networked organizations Ontologies and knowledge management Process models and interoperability Infrastructures Multi agent approaches In spite of many valid contributions in these areas many research challenges remain This is clearly stated in a number of papers suggesting a new research agenda and strategic research roadmaps for advanced virtual organizations With the selected papers included in this book PRO VE pursues its double mission as a forum for presentation and discussion of achievements as well as a place to discuss and suggest new directions and research strategies

Agile Virtual Enterprises Maria Manuela Cunha, Goran Putnik, 2006-01-01 The authors address Agile Virtual Enterprises as a new organizational paradigm highly dynamic reconfigurable agile networks of independent enterprises sharing all resources including knowledge market customers etc and using specific organizational architectures that introduce the enterprises true virtual environments Provided by publisher

Advances in Sustainable and Competitive Manufacturing Systems Américo Azevedo, 2013-06-25 The proceedings includes the set of revised papers from the 23rd International Conference on Flexible Automation and Intelligent Manufacturing FAIM 2013 This conference aims to provide an international forum for the exchange of leading edge scientific knowledge and industrial experience regarding the development and integration of the various aspects of Flexible Automation and Intelligent Manufacturing Systems covering the complete life cycle of a company's Products and Processes Contents will include topics such as Product Process and Factory Integrated Design Manufacturing Technology and Intelligent Systems Manufacturing Operations Management and Optimization and Manufacturing Networks and MicroFactories

Information Systems Development William Wei Song, Shenghua Xu, Changxuan Wan, Yuansheng Zhong, Wita Wojtkowski, Gregory Wojtkowski, Henry Linger, 2010-11-18 Information Systems Development ISD progresses rapidly continually creating new challenges for the professionals involved New concepts approaches and techniques of systems development emerge constantly in this field Progress in ISD comes from research as well as from practice This conference will discuss issues pertaining to information systems development ISD in the inter networked digital economy Participants will include researchers both experienced and novice from industry and academia as well as students and practitioners Themes will include methods and approaches for ISD ISD education philosophical ethical and sociological aspects of ISD as well as specialized tracks such as distributed

software development ISD and knowledge management ISD and electronic business electronic government ISD in public sector organizations IOS **Risks and Resilience of Collaborative Networks** Luis M. Camarinha-Matos, Frederick Benaben, Willy Picard, 2015-10-02 This book constitutes the refereed proceedings of the 16th IFIP WG 5.5 Working Conference on Virtual Enterprises PRO-VE 2015 held in Albi France in October 2015. The 61 revised papers were carefully selected from 126 submissions. They provide a comprehensive overview of identified challenges and recent advances in various collaborative network (CN) domains and their applications with a strong focus on the following areas: risks in collaborative networks; agility and resilience in collaborative networks; collaboration frameworks; logistics and transportation innovation networks; governance in collaborative networks; collaborative communities; information and assets sharing; business processes; performance and optimization; and network formation. Logistik Management Stefan Voß, Julia Pahl, Silvia Schwarze, 2009-08-21 Die Globalisierung und Virtualisierung von Geschäftsbeziehungen vergrößert die Bedeutung und die Komplexität logistischer Herausforderungen. Das Management logistischer Netzwerke wird zu einem wesentlichen Wettbewerbsfaktor für Unternehmen. Das Buch wie die gleichnamige Tagung September 2009 haben zum Ziel den internationalen Gedankenaustausch und die Diskussion zwischen Wissenschaft und Praxis gezielt zu fördern, damit Strategien, Methoden und Werkzeuge entwickelt werden können, die es ermöglichen, den wachsenden Anforderungen gerecht zu werden.

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