

Open System Architecture For CIM - CIMOSA

Presented By:
Vijay Ravichandran

Open System Architecture For Cim

ESPRIT Consortium AMICE

Open System Architecture For Cim:

CIMOSA: Open System Architecture for CIM ESPRIT Consortium AMICE,2012-12-06 Enterprise operation efficiency is seriously constrained by the inability to provide the right information in the right place at the right time In spite of significant advances in technology it is still difficult to access information used or produced by different applications due to the hardware and software incompatibilities of manufacturing and information processing equipment But it is this information and operational knowledge which makes up most of the business value of the enterprise and which enables it to compete in the marketplace Therefore sufficient and timely information access is a prerequisite for its efficient use in the operation of enterprises It is the aim of the ESPRIT project AMICE to make this knowledge base available enterprise wide During several ESPRIT contracts the project has developed and validated CIMOSA Open System Architecture for CIM The CIMOSA concepts provide operation structuring based on cooperating processes Enterprise operations are represented in terms of functionality and dynamic behaviour control flow Information needed and produced as well as resources and organisational aspects relevant in the course of the operation are modelled in the process model However the different aspects may be viewed separately for additional structuring and detailing during the enterprise engineering process

Open System

Architecture for CIM ESPRIT Consortium AMICE,2012-12-06 On Integration computer applications have by now entered almost all enterprises but mostly in an uncoordinated way without long term integration plans or automation strategies Departments introduced computing equipment and purchased or developed programs to support their department operations This approach divided an enterprise into small and almost autonomous enterprises each with the goal to deploy the computer to make their department and its associated activities work more efficiently Thus many departments acquired computers developed and installed automation systems and PCs and educated their staff announcing this was done to make the work force aware of the large benefits that computers bring In this fashion the most important functions in an enterprise were more or less computerized accounting more CAM and CAD less In 1986 Europe the level of computerization in descending order of significance was as follows Accounting Inventory Control Order Entry Production Planning Control Purchasing Distribution Sales Planning Shop Floor Control Process Control Quality Control Manufacturing Engineering including CAM and finally Design Engineering with CAD 1 The net result something that dawned upon us after decades was that the enterprise consisted of many II islands of II automation Moreover these islands could even be found within departments where specific functions had been computerized without regard to the impact on the remainder In the late seventies it became clear that smooth transfer of information between enterprise activities and even within departments was a burden if at all possible

Computer Integrated Manufacturing ALAN WEATHERALL,2013-10-22 This book will give a competitive edge to students of manufacturing managers in industry and anyone involved in specifying implementing and using CIM systems

CIM. Computer Integrated Manufacturing August-Wilhelm Scheer,2012-12-06 Computer Integrated

Manufacturing CIM is the computerized handling of integrated operational processes between production planning and control design process planning production and quality assurance The consistent application of information technology along with modern manufacturing techniques and new organizational procedures opens up great potential for rationalization by speeding up processes thereby reducing stocks and improving product structure and delivery times Following a comprehensive justification of the CIM integration principle this book discusses the current state of applications and new demands arising from the integration principle as applied to the individual CIM components The interfaces between business and technical information processing are considered in detail The main emphasis however is on strategies for realization and implementation based on concrete experience The Y CIM information management model developed and tested at the author's institute is presented as a procedural method for implementing CIM and demonstrated using up to date examples In addition to the procedure for developing a CIM strategy concrete sub projects are developed which are directed at specific sector or enterprise structures The survey of further CIM developments including design stage cost estimation use of expert systems and inter company process chains have proved to be effective CIM components since the first edition of this book and are now treated in the main text Six German and five American industrial implementations are presented to illustrate the diverse areas of emphasis in the implementation sequence and to indicate how CIM can be realized with currently available data processing tools

COMPUTER INTEGRATED MANUFACTURING ALAVUDEEN, A., VENKATESHWARAN, N., 2008-08-18 This up to date and accessible text deals with the basics of Computer Integrated Manufacturing CIM and the many advances made in the field It begins with a discussion on automation systems and gives the historical background of many of the automation technologies Then it moves on to describe the various techniques of automation such as group technology and flexible manufacturing systems The text describes several production techniques for example just in time JIT lean manufacturing and agile manufacturing besides explaining in detail database systems machine functions and design considerations of Numerical Control NC and Computer Numerical Control CNC machines and how the CIM system can be modelled The book concludes with a discussion on the industrial application of artificial intelligence with the help of case studies in addition to giving network application and signalling approaches Intended primarily as a text for the undergraduate and graduate students of mechanical production and industrial engineering and management the text should also prove useful for the professionals in the field

Human Aspects in Computer Integrated Manufacturing G.J. Olling, 2013-10-22 The papers in this volume reflect the current research and development of advanced manufacturing software They may be categorized as follows New Concepts towards CIM Product Realization through Product Process Modelling Intelligent Management and Control of Manufacturing Activities and Development of CIM Systems **Computer Integrated Manufacturing (Iccim '91): Manufacturing Enterprises Of The 21st Century - Proceedings Of The International Conference** B S Lim, 1991-10-02 In the 21st century computer integrated manufacturing CIM systems will not only be the

economic development tools but will also be the essential means of achieving a higher level of flexibility cohesiveness and performance CIM systems are beginning to settle into our society and industries with greater emphasis on the integration of economic cultural and social aspects together with design planning factory automation and artificial intelligent systems This volume of proceedings brings together 10 keynote and invited speaker addresses and over 180 papers by practitioners from 28 countries It documents current research and in depth studies on the fundamental aspects of advanced CIM systems and their practical applications The papers fall into 3 main sections CIM Related Issues Industrial AI Applications Aspects and Concurrent Engineering Advanced Design Simulation and Flexible Manufacturing Systems

Flexible Automation and

Integrated Manufacturing 1993 M Ahmad,William G. Sullivan,1993-09-21 Proceedings of the Flexible Automation and Integrated Manufacturing Conference held in Limerick Ireland in June 1993 Industrial Automation Systems International Organization for Standardization,2000

Computer Integrated Manufacturing

C. O'Brien,P. MacConaill,W. Van Puymbroeck,1992-05-21 CIM EUROPE 1992 is a record of the conference on Computer Integrated Manufacturing held in Birmingham in May 1992 in which researchers practitioners and decision makers in the CIM field were brought together Altogether it comprises 44 papers by contributors mainly from Europe but also from the USA China and Japan The papers of this proceedings cover various European and international projects on the application and development of CIM worldwide and in special industries The focus is placed on results and benefits Readers will find this book helpful for the planning of their own CIM initiatives as it provides a unique opportunity to learn of the views of industry research centres and universities

Computer Networks for World Class CIM Systems

Paul G. Ranky,1990 Information Infrastructure Systems for Manufacturing Hiroyuki Yoshikawa,Jan Goossenaerts,1993 The possible benefits the external characteristics and the broad range requirements of information infrastructure systems for intelligent manufacturing systems are widely known However it is recognized that various problems are impeding achievement in this area including the lack of understanding and agreement about techniques and methods for coordinating and systematizing the broad range information processing requirements and for synthesizing these requirements into deeply structured easily adaptable and comprehensive conceptual models This hampers the development of information infrastructures amalgamating the conceptual models and computing communication storage technologies and the development of intelligent manufacturing systems amalgamating the information infrastructures with advanced machine tools and skillful people This publication elaborates on these issues and affords a greater understanding of and agreement about methods techniques and tools for solving related problems To ensure an in depth coverage of the wide problem domain contributions sourced from reknowned experts are focused on some of the most relevant research and development issues The book will provide a useful foundation of information for further research and development on information infrastructure systems for manufacturing CIRP Journal of Manufacturing Systems ,2000 International Conference on Intelligent Manufacturing Ji Zhou,1995 **Computer Integrated**

Manufacturing Roger G. Hannam,1996 An introductory text to CIM in both its engineering and management context It shows how modern concepts can be related within an integrated environment Features include CAD CAM data communications networks case studies and a bibliography glossary *Esprit* ,1991 Euroabstracts ,1993 *Euro Abstracts* ,1993 **Handbook of Design, Manufacturing and Automation** Richard C. Dorf,Andrew Kusiak,1994 Comprehensive detailed and organized for speedy reference everything you need to know about modern manufacturing technology From concurrent engineering to fixture design for machining systems from robotics and artificial intelligence to facility layout planning and automated CAD based inspection this handbook provides all the information you need to design plan and implement a modern efficient manufacturing system tailored to your company s special needs and requirements Handbook of Design Manufacturing and Automation does more than simply present the characteristics and specifications of each technology much more Each technology is discussed both in terms of its own capabilities and in terms of its compatibility with other technologies and the trade offs involved in choosing one option over another are explored at length An entire section is devoted to the business aspects of converting to the new technologies including acquisition of automation managing advanced manufacturing technology and issues of cost and financing The focus is on incorporating these technologies into a cohesive whole an efficient cost effective manufacturing system Other important topics include Design for automated manufacturing Nontraditional manufacturing processes Machine tool programming techniques and trends Precision engineering and micromanufacturing Computer integrated product planning and control Image processing for manufacturing And much more ISATA in Pursuit of Technical Excellence ,1987

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