

Research Reports

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**CCE: An Integration
Platform for Distributed
Manufacturing
Applications**

A Survey of Advanced Computing Technologies



Springer

Cce An Integration Platform For Distributed Manufacturing Applications A Survey For Advanced Computing Technologies

Xi Vincent Wang



Cce An Integration Platform For Distributed Manufacturing Applications A Survey For Advanced Computing Technologies:

CCE: An Integration Platform for Distributed Manufacturing Applications ESPRIT Consortium

CCE-CNMA,2013-11-11 Within CIME environments one continually comes across a multitude of different working practices network devices information systems and manufacturing technologies This heterogeneous environment extends to individual enterprises and can have profound effects on the efficiency and effectiveness of an organisation and often results in symptoms such as long product lead times poor visibility of the product and process status high product inventory and work in progress low data integrity etc as well as incurring excessive infrastructure costs Having to select an appropriate information system to help achieve the business objectives of anyone manufacturing enterprise can be an awesome task During the 1980s vendor independent communications such as MAP Manu facturing Automation Protocol and CNMA Communications Network for Manufacturing Applications brought standard open communications to computer controlled industrial devices but this alone was not enough to satisfy the more demanding requirements of creating and maintaining manufacturing applications In order to create manufacturing solutions that effectively utilise Open Systems Interconnection OSI it is necessary to look beyond the standard communications protocols to how and why applications are developed

Emerging Technologies in Manufacturing Matthew N. O. Sadiku,Abayomi J. Ajayi-Majebi,Philip O. Adebola,2023-03-15

The manufacturing industry is a cornerstone of national economy and people s livelihood It is the way of transforming resources into products or goods which are required to cater to the needs of the society Traditional manufacturing companies currently face several challenges such as rapid technological changes inventory problem shortened innovation short product life cycles volatile demand low prices highly customized products and ability to compete in the global markets Modern manufacturing is highly competitive due to globalization and fast changes in the global market This book reviews emerging technologies in manufacturing These technologies include artificial intelligence smart manufacturing lean manufacturing robotics automation 3D printing nanotechnology industrial Internet of things and augmented reality The use of these technologies will have a profound impact on the manufacturing industry The book consists of 19 chapters Each chapter addresses a single emerging technology in depth and describes how manufacturing organizations are adopting the technology The book fills an important niche for manufacturing It is a comprehensive jargon free introductory text on the issues ideas theories and problems on emerging technologies in manufacturing It is a must read book for beginners or anyone who wants to be updated about emerging technologies

MMS: A Communication Language for

Manufacturing Consortium CCE-CNMA,2013-11-11 Today s manufacturing environment is characterised by significant change in the way it is able to respond to its business objectives Companies now face new challenges to meet customer demands including greater flexibility a wider range of products higher quality improved lead time whilst maintaining _c

ompetitive prices The changes manifest in each company will differ but the trend is towards providing a leaner more responsive organisation This is reflected in the need for Information Technology IT systems to be more integrated across an enterprise and for the systems to be provided on a distributed basis At the same time it is imperative that the costs associated with these IT systems and the range of skills required by an enterprise to develop and support such systems should be minimal One way of achieving this objective is to adopt the use of standards During recent years there has been a lot of activity to standardise the way that manufacturing devices communicate with each other Considerable progress has been made thanks not least to the success of the international effort of standardisation bodies like ISO IEEE and IEC and projects applying standardised protocols like Manufacturing Automation Protocol MAP in the USA Communications Network for Manufacturing Applications CNMA in Europe and not forgetting Mini MAP and Fieldbus technology

Computer Aided Concurrent Integral Design Rolf F. Schmidt, Martin Schmidt, 1996-05-03 The Esprit Research Reports series is helping to disseminate the many results products and services tools and methods and international standards arising from the hundreds of projects involving thousands of researchers that have already been launched **BOOK JACKET** International Books in Print , 1997 Whitaker's Books in Print , 1998 **American Book Publishing Record** , 1996 **Verzeichnis lieferbarer Bücher** , 1999 *German books in print* , 1995 *Cloud Manufacturing* Weidong Li, Jörn Mehnen, 2013-03-23 Global networks which are the primary pillars of the modern manufacturing industry and supply chains can only cope with the new challenges requirements and demands when supported by new computing and Internet based technologies Cloud Manufacturing Distributed Computing Technologies for Global and Sustainable Manufacturing introduces a new paradigm for scalable service oriented sustainable and globally distributed manufacturing systems The eleven chapters in this book provide an updated overview of the latest technological development and applications in relevant research areas Following an introduction to the essential features of Cloud Computing chapters cover a range of methods and applications such as the factors that actually affect adoption of the Cloud Computing technology in manufacturing companies and new geometrical simplification method to stream 3 Dimensional design and manufacturing data via the Internet This is further supported case studies and real life data for Waste Electrical and Electronic Equipment WEEE remanufacturing This compilation of up to date research and literature can be used as a textbook or reference for mechanical manufacturing and computer engineering graduate students and researchers for efficient utilization deployment and development of distributed and Cloud manufacturing systems services and applications

Frontiers in Computing Technologies for Manufacturing Applications Yoshiaki Shimizu, Zhang Zhong, Rafael Batres, 2007-08-30 In today's competitive world industries are focusing on shorter lead times improved quality reduced cost increased profit improved productivity and better customer service As ERP and other information management systems have been implemented information growth poses new challenges to decision makers in manufacturing This book is an overview of intelligent computing in manufacturing Modelling data

processing algorithms and computational analysis of problems found in advanced manufacturing are discussed. Techniques are presented to aid decision makers dealing with multiple conflicting objectives. Readers will learn about computational technologies that can improve the performance of manufacturing systems. As the first book to bring together combinatorial optimization, information systems, and fault diagnosis and monitoring in a consistent manner, this book will interest students in industrial and mechanical engineering, information engineers, and technical decision makers.

Development of an Interoperable Cloud-based Manufacturing System Xi Vincent Wang, 2012

In modern manufacturing business, the supply chain consists of multiple tiers of partners and suppliers. Collaboration exists both among departments within an enterprise and among the stakeholders within the supply chains. Communication and interaction between these participants are difficult due to the heterogeneous Information and Communication Technology environment, which consists of different protocols, data formats, programming languages, and platforms. To address the above issues, this research aims to develop a Cloud Manufacturing solution, namely an Interoperable Cloud-based Manufacturing System (ICMS), to provide a manufacturing platform that integrates production services from design to manufacturing. Inspired by Cloud Computing technologies, the Cloud Manufacturing model provides an integration methodology to organise operational manufacturing tasks at a higher level. The STEP Standard for Exchange of Product data and STEP NC Standard for Exchange of Product data for Numerical Control data models were enhanced to provide more complete data models for a fully developed Cloud Manufacturing service. The ICMS system has three layers: the Manufacturing Capability Layer, Virtual Service Layer, and Application Layer. The Manufacturing Capability Layer integrates and virtualises existing manufacturing abilities in the Manufacturing Cloud. The Storage Cloud is also developed at this layer to maintain the mirrored image and dynamic status of manufacturing capabilities. The Virtual Service Layer is organised based on the Smart Cloud Manager mechanism. This mechanism is responsible for analysing original user requests and mapping them to the virtualised Cloud Manufacturing Service in the Manufacturing Capability Layer. The original needs of the user are met by an appropriate service provider in the Cloud without knowledge of the provider's identity or its whereabouts. The Application Layer refers to the Cloud user domain. Different types of Cloud consumers are identified and assisted via different interaction environments. The outcome of the research is the development of an interoperable and distributed manufacturing environment, which provides a platform that can integrate existing and future manufacturing resources and abilities through Cloud Manufacturing Services. The system has been validated with capabilities such as:

- i. Smart Cloud Manager able to take an original user request remotely and organise a series of Cloud services to fulfil the user request. It provides the neutral service establishment and organization mechanism for Cloud Manufacturing Paradigm.
- ii. manufacturing resources integrated in the Manufacturing Cloud and provided as a Cloud Service Neutral data models compliant with international standards, e.g. STEP, were developed for the utilisation of Cloud Services.

The current manufacturing resources are integrated into the Cloud Manufacturing environment.

and the current STEP standard is extended to the Cloud area iii the software agent and Function Block technology utilised during the development of service integration The amalgamation of these technologies forms a universal integration methodology called Virtual Function Block iv a novel data exchange mechanism the Data Packet mechanism developed to provide an appropriate amount and scope of data to the right person Most of the research work in this thesis has been reported in eight research publications i e four journal papers one book chapter and three conference papers Keywords Cloud Cloud Manufacturing Interoperability STEP STEP NC Data Exchange Virtual Function Block Distributed Manufacturing Hermann Kühnle, 2014-11-29 Changing world market conditions have forced manufacturers to apply new architectures and technologies for the design and control of manufacturing systems Distributed Manufacturing Paradigm Concepts Solutions and Examples outlines the current requirements of manufacturing systems and addresses the architectures methodologies and technologies developed within European research activities in response to these requirements Distributed Manufacturing Paradigm Concepts Solutions and Examples will be of interest to researchers and developers in all fields involving industrial control systems as well as to decision makers within industry and government organizations The reader will gain a detailed knowledge of the current research directions in industrial control reaching a comprehensive understanding of current advances their expected benefits and limitations and the possible consequences for industrial businesses

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