Concurrent Engineering Journal

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Industrial Engineering: Concepts, Methodologies, Tools, and

Applications Alpha Science Int'l Ltd.
This volume features the proceedings of the 14th ISPE Conference on Concurrent Engineering, held in S ã o Jos é dos Campos, S ã o Paulo, Brazil, on the 16th – 20th of July 2007. It highlights the application of concurrent engineering to the development of complex systems.

Collaboration, Technology Innovation and Sustainability CRC Press
Contains papers on the advances in Concurrent Engineering research and applications. This book focuses on developing methodologies, techniques and tools based on Web technologies required to support the key objectives of Concurrent Engineering.

Concurrent Engineering In Product Design And Development **CRC Press**
In the area of computer-integrated manufacturing, concurrent engineering is recognized as the manufacturing philosophy for the next decade.

Computational Intelligence Academic Conferences and publishing limited
These proceedings contain lectures presented at the NATO Advanced Study Institute on Concurrent Engineering Tools and Technologies for Mechanical System Design held in Iowa City, Iowa, 25 May -5 June, 1992. Lectures were presented by leaders from Europe and North America in disciplines contributing to the emerging international focus on Concurrent Engineering of mechanical systems.

Participants in the Institute were specialists from throughout NATO in disciplines constituting Concurrent Engineering, many of whom presented contributed papers during the Institute and all of whom participated actively in discussions on technical aspects of the subject. The proceedings are organized into the following five parts: Part 1 Basic Concepts and Methods Part 2 Application Sectors Part 3 Manufacturing Part 4 Design Sensitivity Analysis and Optimization Part 5 Virtual Prototyping and Human Factors Each of the parts is comprised of papers that present state-of-the-art concepts and methods in fields contributing to Concurrent Engineering of mechanical systems. The lead-off papers in each part are based on invited lectures, followed by papers based on contributed presentations made by participants in the Institute.

Construction Innovation and Process Improvement CRC Press

The main reason for the premature breakdown of today's electronic products (computers, cars, tools, appliances, etc.) is the failure of the components used to build these products. Today professionals are looking for effective ways to minimize the degradation of electronic components to help ensure

longer-lasting, more technically sound products and systems. This practical book offers engineers specific guidance on how to design more reliable components and build more reliable electronic systems. Professionals learn how to optimize a virtual component prototype, accurately monitor product reliability during the entire production process, and add the burn-in and selection procedures that are the most appropriate for the intended applications. Moreover, the book helps system designers ensure that all components are correctly applied, margins are adequate, wear-out failure modes are prevented during the expected duration of life, and system interfaces cannot lead to failure.

Offsite Production and Manufacturing for Innovative Construction CRC Press

Over the past decade, with greater emphasis being placed upon shorter lead times, better quality products, reduced product costs, and greater customer satisfaction, the topic of Engineering Design has received increased interest from the industrial and ac ademic communities. Considerable effort has been directed at developing design process methodologies and building computer tools that focus upon relatively narrow aspects of design, but many key problems in Engineering Design research and practice remain unanswered. Resulting from the First International Engineering Design Debate held in Glasgow, UK in late 1996, this volume discusses the main issues concerning the improvement of design productivity. Covering design studies, design development, concurrent engineering and design knowledge and information, it attempts to derive a common understanding of the basic factors, problems and potential solutions involved.

Simultaneous Engineering Springer

This volume contains papers

presented during the science trace at the 4th International Conference of Business Information Systems, BIS 2000, held in Poznan, Poland, 12-13 April 2000, which discussed the development, implementation, applications and improvement of computer systems for business processes. The papers deal with practical, industry experiences and validated prototype implementations, and cover areas such as integration of information systems, electronic transactions and banking, virtual organisations, network technologies, business information systems modelling and analysis.

Advances in Concurrent Engineering Artech House
This book gathers the best papers presented at the second conference held by the Russian chapter of the Association for Information Systems (AIS), which took place in Yekaterinburg, Russian Federation, in December 2019. It shares the latest insights into various aspects of the digitalization of the economy and the consequences of transformation in public administration, business and public life. Integrating a broad range of analytical perspectives, including economic, social and technological, this interdisciplinary book is particularly relevant for scientists, digital technology users, companies and public institutions.

Encyclopedia of Business in Today's World American Society of Mechanical Engineers
Since the advent of steam engines and higher throughput railways during

the early nineteenth century, the rate of development has been rather steady and incremental. The development of advanced electronic control and command systems, increasing levels of automation, and electrified high-speed railways over the past few decades have transformed the rail transportation posing it as a competitor to aviation. Modern railways are no longer the sole forte of civil and mechanical engineering and involve a broad multidisciplinary engineering disciplines from advanced computing, telecommunications, and networking to big data analytics and even AI. This volume addresses the diverse, evolving, and advanced engineering disciplines including enabling practices and processes involved in shaping modern railways.

People, Process and Technology IOS Press

The offsite and modular market is continuing to grow. This book builds on the success of a number of initiatives, including formative findings from literature, research and development and practice-based evidence (success stories). It presents new thinking and direction from leading experts in the fields of: design, process, construction, engineering, manufacturing, logistics, robotics, delivery platforms, business and transformational strategies, change management, legislation, organisational learning, software design, innovation and biomimetics. This book is particularly novel and timely, as it brings together a number of cogent subjects

under one collective ‘umbrella’. Each of these chapters contain original findings, all of which culminate in three 'Key Learning Points' which provide new insight into the cross-cutting themes, interrelationships and symbiotic forces that exist between each of these chapters. This approach also provides readers with new contextualised understanding of the wider issues affecting the offsite market, from the need to embrace societal challenges, through to the development of rich value-laden solutions required for creating sector resilience. Content includes a balance between case studies and practice-based work, through to technical topics, theoretical propositions, pioneering research and future offsite opportunities ready for exploitation. This work includes: stakeholder integration, skills acquisition, new business models and processes, circularity and sustainable business strategies, robotics and automation, innovation and change, lean production methodologies and new construction methods, Design for Manufacturing and Assembly, scaled portfolio platforms and customisability, new legal regulatory standards and conformance issues and offsite feasibility scenario development/integration.

Proceedings of the 18th ISPE International Conference on Concurrent Engineering

Springer Science & Business Media

This book covers recent advances in simultaneous engineering and contemporary issues related to the development and implementation of successful systems. The scope of material includes recent research related to simultaneous engineering

problem-solving architectures, organizational issues, tools and techniques of simultaneous engineering, design methods, and application of artificial intelligence and numeric tools.

4th International Conference on Business Information Systems, Pozna?, Poland, 12–13 April 2000 Springer Science & Business Media

Presents a top-down approach to the design, development, testing and recyclability of products, components and systems across a wide range of industries. Starting with the desired result and working back through the details, it shows how to produce goods, taking into account the challenges of actual manufacture, what the reliability requirements should be, quality control, associated costs, customer needs and more. Additional features include case studies and team negotiating. Also well-illustrated with figures, photographs, charts and tables and includes an extensive bibliography.

CRC Press

This state-of-the-art book explores the concept of knowledge-intensive CAD systems. The topics covered range from ontology to knowledge representation, making it essential reading for researchers, engineers, and technical managers involved in the development of advanced applications for knowledge management, engineering design, and manufacturing.

Complex Systems Concurrent Engineering Springer Science & Business Media

Industrial engineering affects

all levels of society, with innovations in manufacturing and other forms of engineering oftentimes spawning cultural or educational shifts along with new technologies. Industrial Engineering: Concepts, Methodologies, Tools, and Applications serves as a vital compendium of research, detailing the latest research, theories, and case studies on industrial engineering. Bringing together contributions from authors around the world, this three-volume collection represents the most sophisticated research and developments from the field of industrial engineering and will prove a valuable resource for researchers, academics, and practitioners alike.

Managing Effectively in Technology-Intensive Organizations IGI Global

Advances in Concurrent EngineeringProceedings of the 9th ISPE International Conference on Concurrent Engineering, Cranfield, UK, 27-31 July 2002CRC Press

Modern Railway Engineering SAGE

During the last two decades, a tremendous growth in the popularity and applications of computers in manufacturing has occurred. Computer aided design, computer-aided manufacturing, flexible manufacturing systems, group technology and many others are considered by many manufacturing executives as the most promising technologies and philosophies that, if successfully implemented, can reduce costs and enable the US manufacturing companies to become more competitive in the global market. In the computer-integrated manufacturing environ ment, the decision processes are often more involved. The decision makers are frequently required to have access to a vast amount of data to support and analyze their complex

decision problems at strategic and tactical levels. Decision support systems are often referred to as computer-based information technologies that allow the decision makers to interactively communicate and solve the decision problems. Manufacturing Decision Support Systems is intended to report the latest developments and address the central issues in this area. This volume consists of 14 refereed chapters, written by leading researchers from academia and industry.

Knowledge Intensive Computer Aided Design Springer Nature

These proceedings represent the work of researchers presenting at the 16th European Conference on Knowledge Management (ECKM 2015). We are delighted to be hosting ECKM at the University of Udine, Italy on the 3-4 September 2015. The conference will be opened with a keynote from Dr Madelyn Blair from Pelerei Inc., USA on the topic “The Role of KM in Building Resilience”. On the afternoon of the first day Dr Daniela Santarelli, from Lundbeck, Italy will deliver a second keynote speech. The second day will be opened by Dr John Dumay from Macquarie University, Sydney, Australia. ECKM is an established platform for academics concerned with current research and for those from the wider community involved in Knowledge Management to present their findings and ideas to peers from the KM and associated fields. ECKM is also a valuable opportunity for face to face interaction with colleagues from similar areas of interests. The conference has a well-established history of helping attendees advance their understanding of how people, organisations, regions and even countries generate and exploit

knowledge to achieve a competitive advantage, and drive their innovations forward. The range of issues and mix of approaches followed will ensure an interesting two days. 260 abstracts were initially received for this conference. However, the academic rigor of ECKM means that, after the double blind peer review process there are 102 academic papers, 15 PhD research papers, 1 Masters research papers and 7 Work in Progress papers published in these Conference Proceedings. These papers reflect the continuing interest and diversity in the field of Knowledge Management, and they represent truly global research from many different countries, including Algeria, Austria, Bosnia and Herzegovina, Brazil, Canada, Chile, Colombia, Cuba, Cyprus, Czech Republic, Estonia, Finland, France, France, Germany, Hungary, India, Indonesia, Iran, Ireland, Italy, Japan, Jordan, Kenya, Lithuania, Mexico, Nigeria, Norway, Pakistan, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sultanate of Oman, Sweden, Switzerland, Thailand, The Netherlands, UK, United Arab Emirates, USA and Venezuela.

Presented at the Winter Annual Meeting of the American Society of Mechanical Engineers, Anaheim, California, November 8-13, 1992 Springer Science & Business Media

* Presents assessment methods for organization and management processes. * Provides special tools and techniques for managing and organizing R&D, new product, and project-oriented challenges. * Includes real-world case studies.

Proceedings of Concurrent

Engineering, Research and Applications ... Conference
Springer Science & Business Media
This book sets out the innovative practices that have been introduced from other industries and shows how the construction industry has learnt from these.
BIS 2000 John Wiley & Sons
This book is about synergy in computational intelligence (CI). It is a c- lection of chapters that covers a rich and diverse variety of computer-based techniques, all involving some aspect of computational intelligence, but each one taking a somewhat pragmatic view. Many complex problems in the real world require the application of some form of what we loosely call “intel- gence”fortheirsolution. Fewcanbe solvedbythenaiveapplicationofasin gle technique, however good it is. Authors in this collection recognize the li- tations of individual paradigms, and propose some practical and novel ways in which di?erent CI techniques can be combined with each other, or with more traditional computational techniques, to produce powerful probl- solving environments which exhibit synergy, i. e. , systems in which the whole 1 is greater than the sum of the parts . Computational intelligence is a relatively new term, and there is some d- agreement as to its precise de?nition. Some practitioners limit its scope to schemes involving evolutionary algorithms, neural networks, fuzzy logic, or hybrids of these. For others, the de?nition is a little more ?exible, and will include paradigms such as Bayesian belief networks, multi- agent systems, case-based reasoning and so on. Generally, the term has a similar meaning to the well-known phrase “Arti?cial Intelligence” (AI), although CI is p- ceived moreas a “bottom up” approachfrom which intelligent behaviour can emerge,whereasAIt endstobestudiedfromthe“topdown ”,andderivefrom pondering upon the “meaning of intelligence”. (These and other key issues will be discussed in more detail in Chapter 1.