

2017 Product And System Technical Training Course Catalog

This licentiate thesis aims to establish the basis for scientifically understanding and supporting the cognitive processes involved in the conceptual design of resource- efficient and effective product-service systems (PSSs). The research carried out is transdisciplinary in

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nature and includes both prescriptive and descriptive studies. First, the cognitive nature of conceptual PSS designing is investigated. Multiple pre-experimental protocol studies in a laboratory setting are carried out to do so. The cohort of these explorative studies includes experienced industrial practitioners conceptually designing a resource-efficient PSS. These descriptive studies provide

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quantitative insights into the cognitive effort expended by designers on various design issues and processes during conceptual PSS designing and its potential differences to conceptual product designing. These insights form the basis for future research that can eventually shine light on this complex process with statistically significant empirical results. Second, the

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essence of extant prescriptive PSS design principles, methods and tools is distilled through a literature analysis and synthesis of the state of the art. Subsequently, important aspects that need to be considered during conceptual PSS designing are consolidated in the form of a PSS design schema. Third, a design navigator named lifecycle-oriented function deployment (LFD) is developed. LFD is essentially a

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contextual decision-making support tool, developed to guide the conceptual designing of environmentally benign PSSs. This tool informs the designers regarding the potential environmental impacts of specific design parameters of an existing offering. It subsequently guides the designers in the redesign of this existing offering into a PSS with relatively benign environmental impacts. Fourth, the

effects of the two proposed prescriptions are tested empirically. True experimental protocol studies are carried out in a laboratory setting to test the effects of the prescriptive PSS design schema on the cognition of PSS designers. LFD is applied in an industrial case study using the action design research method, to support the conceptual redesign of an existing product-centric offering into an environmentally benign

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PSS. Environmental impacts of the PSS concepts generated using LFD are then evaluated in comparison to that of the existing offering, using simulated lifecycle assessment. A semi-structured interview is carried out to evaluate the utility and usability of LFD, with the company personnel involved in the conceptual redesign process. This licentiate thesis is an effort to effectively design the future research work of

the author. This future work will aim to support and establish generalizable scientific knowledge regarding the conceptual designing of resource-efficient and effective PSSs.

Smart Product-Service Systems draws on innovative practice and academic research to demonstrate the unique benefits of Smart PSS and help facilitate its effective implementation. This comprehensive guide explains how Smart PSS

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reshapes product-service design in several unique aspects, including a closed-loop product design and redesign manner, value co-creation with integrated human-machine intelligence, and solution design context-awareness. Readers in industry as well as academia will find this to be an invaluable guide to the current body of technical knowledge on Smart Product-Service Systems (Smart PSS), future

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research trajectories, and experiences of implementation. Rapid development of information and communication technologies, artificial intelligence, and digital technologies have driven today's industries towards the so-called digital servitization era. As a result, a promising IT-driven business paradigm, known as Smart Product-Service Systems (Smart PSS) has emerged, where a large amount of

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low cost, high performance smart, connected products are leveraged, together with their generated on-demand services, as a single solution bundle to meet individual customer needs. Explains what factors a company needs to consider in their transition towards digital servitization and its advantages Describes how this field relates to the sustainability movement, and how Smart PSS can be implemented in a

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sustainable way Includes detailed case studies from different industries, including DELTA Electronics Inc. Singapore (smart commercialization), COMAC aviation industry (smart manufacturing servitization), and Van High Tech (smart building services) Industrialization supported by industrial hubs has been widely associated with structural transformation and catch-up. But while the direct

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economic benefits of industrial hubs are significant, their value lies first and foremost in their contribution as incubators of industrialization, production and technological capability, and innovation. The Oxford Handbook of Industrial Hubs and Economic Development adopts an interdisciplinary approach to examine the conceptual underpinnings, review empirical evidence of

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regions and economies, and extract pertinent lessons for policy researchers and practitioners on the key drivers of success and failure for industrial hubs. This Handbook illustrates the diverse and complex nature of industrial hubs and shows how they promote industrialization, economic structural transformation, and technological catch-up. It explores the implications of emerging issues and trends such

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as environmental protection and sustainability, technological advancement, shifts in the global economy, and urbanization.

This book gathers the latest advances, innovations, and applications in the field of computational engineering, as presented by leading international researchers and engineers at the 24th International Conference on Computational &

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Experimental Engineering and Sciences (ICCES), held in Tokyo, Japan on March 25-28, 2019. ICCES covers all aspects of applied sciences and engineering:

theoretical, analytical, computational, and experimental studies and solutions of problems in the physical, chemical, biological, mechanical, electrical, and mathematical sciences.

As such, the book discusses highly diverse topics, including composites;

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bioengineering &
biomechanics;
geotechnical
engineering; offshore &
arctic engineering;
multi-scale & multi-
physics fluid
engineering; structural
integrity & longevity;
materials design &
simulation; and computer
modeling methods in
engineering. The
contributions, which
were selected by means
of a rigorous
international peer-
review process,
highlight numerous

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exciting ideas that will
spur novel research
directions and foster
multidisciplinary
collaborations.

Compulsory Visibility
and Its Impact on
Privacy and the
Confidentiality of
Personal Identifiable
Images

Innovative Product
Design and Intelligent
Manufacturing Systems
Proceedings of ICCES2019
Smart Product-Service
Systems

Aeronautics & Space
Transportation

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Course Catalog
Technology

Product catalog - China
Industry Standard -
Automobile & Vehicle:
QC; QC/T; QCT

*An Introduction to Young
Children with Special Needs:
Birth Through Age Eight is a
comprehensive introduction to
educational policies, programs,
practices, and services for
future practitioners serving
young children with delays or
disabilities in early intervention-
early childhood special
education (EI-ECSE).*

*Thoughtfully addressing the
needs of children at risk for
learning or development
delays or disabilities, revered*

authors Richard M. Gargiulo and Jennifer L. Kilgo offer evidence-based interventions and instructional techniques that provide students with a broad understanding of important theoretical and philosophical foundations, including evidence-based decision making, developmentally appropriate practices, cultural responsiveness, and activity-based intervention. The Fifth Edition includes the latest developments in and influences on the field of early intervention and early childhood special education, including the Division for Early

Childhood's (DEC)

Recommended Practices, which are infused throughout the text. With the support of this current and innovative book, readers will gain a firm understanding of the complex field of EI-ECSE to assist them in their future study and careers. A Complete Teaching & Learning Package Contact your rep to request a demo, answer your questions, and explore the robust tools and resources available with this text. SAGE Premium Video Included in the interactive eBook! SAGE Premium Video tools and resources boost comprehension and bolster

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analysis. Learn more.
Interactive eBook Your
students save when you
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Premium Video and other
multimedia tools. Learn more.
SAGE coursepacks SAGE
coursepacks makes it easy to
import our quality instructor
and student resource content
into your school's learning
management system (LMS).
Intuitive and simple to use,
SAGE coursepacks allows you
to customize course content to
meet your students' needs.
Learn more. SAGE edge This

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companion website offers both instructors and students a robust online environment with an impressive array of teaching and learning resources. Learn more.

This book is dedicated to the issues and complexities of industrial services supply chain management. It analyzes how the transition from products to services can be managed, and how supply chains can be adjusted to reflect this new status quo. The book begins with chapters examining product-service systems structures and servitization – the services infusion process. Next, it presents industrial

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services as marketing and operations strategy. The focus shifts to service delivery, and this chapter discusses how the actual operations take place. This is followed by an examination of the role of technology and how connected assets are utilized by product vendors in value-creation. The book analyzes the transition from ownership to subscriptions in the pricing decisions chapter. Then the value chain effects chapter offers an overview of the mechanisms through which industrial companies are shortening the distance to end-users and aim for a better

position in the value chain. Finally the conclusion addresses theoretical and empirical implications in the industrial services supply chain management.

This book examines how face recognition technology is affecting privacy and confidentiality in an era of enhanced surveillance. Further, it offers a new approach to the complex issues of privacy and confidentiality, by drawing on Joseph K in Kafka's disturbing novel The Trial, and on Isaiah Berlin's notion of liberty and freedom. Taking into consideration rights and wrongs, protection from harm

associated with compulsory visibility, and the need for effective data protection law, the author promotes ethical practices by reinterpreting privacy as a property right. To protect this right, the author advocates the licensing of personal identifiable images where appropriate. The book reviews American, UK and European case law concerning privacy and confidentiality, the effect each case has had on the developing jurisprudence, and the ethical issues involved. As such, it offers a valuable resource for students of ethico-legal fields, professionals specialising in image rights

law, policy-makers, and liberty advocates and activists.

This book provides readers with a timely snapshot of ergonomics research and methods applied to the design, development and evaluation, of products, systems and services. It gathers theoretical contributions, case studies and reports on technical interventions focusing on a better understanding of human machine interaction, and user experience for improving product design. The book covers a wide range of established and emerging topics in user-centered design, relating to design for special

populations, design education, workplace assessment and design, anthropometry, ergonomics of buildings and urban design, sustainable design, as well as visual ergonomics and interdisciplinary research and practices, among others. Based on the AHFE 2021 International Conference on Ergonomics in Design, held virtually on 25-29 July, 2021, from USA, the book offers a thought-provoking guide for both researchers and practitioners in human-centered design and related fields.

Proceedings of the AHFE 2021 Virtual Conference on

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*Ergonomics in Design, July
25-29, 2021, USA*

*Development of Trans-free
Lipid Systems and their Use in
Food Products*

*International Business, Trade
and Institutional Sustainability*

Advances in Production

Management Systems.

*Competitive Manufacturing for
Innovative Products and
Services*

Proceedings of the 5th

International Conference on

Decision Support System

Technology - ICDSST 2019 &

EURO Mini Conference 2019

*Select Proceedings of ICIPDIMS
2019*

A comprehensive overview of current

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developments and applications in biofuels production Process Systems Engineering for Biofuels Development brings together the latest and most cutting-edge research on the production of biofuels. As the first book specifically devoted to process systems engineering for the production of biofuels, Process Systems Engineering for Biofuels Development covers theoretical, computational and experimental issues in biofuels process engineering. Written for researchers and postgraduate students working on biomass conversion and sustainable process design, as well as industrial practitioners and engineers involved in process design, modeling and optimization, this book is an indispensable guide to the newest developments in areas including: Enzyme-catalyzed biodiesel production Process analysis of biodiesel production (including kinetic modeling, simulation and optimization) The use of

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ultrasonification in biodiesel production
Thermochemical processes for biomass transformation to biofuels
Production of alternative biofuels
In addition to the comprehensive overview of the subject of biofuels found in the Introduction of the book, the authors of various chapters have provided extensive discussions of the production and separation of biofuels via novel applications and techniques.

This book looks at how to design complex products that have many components with intricate relationships and requirements. It also discusses how to manage processes involved in their lifecycle, from concept generation to disposal, with the objectives of increasing customer satisfaction, quality, safety, and usability and meeting program timings and budgets. Part I covers systems engineering concepts, issues, and bases in product design. Part II examines quality, human factors, and

safety engineering approaches. Part III describes important tools and methods used in these fields, and Part IV includes other relevant integration topics, interesting applications of useful techniques, and observations from a few "landmark" product development case studies.

Smart Cities for Technological and Social Innovation establishes a key theoretical framework to understand the implementation and development of smart cities as innovation drivers, in terms of lasting impacts on productivity, livability and sustainability of specific initiatives. This framework is based on empirical analysis of 12 case studies, including pioneer projects from Europe, Asia, the Middle East, and more. It explores how successful smart cities initiatives nurture both technological and social innovation using a combination of regulatory

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governance and private agency.

Typologies of smart city-making approaches are explored in depth.

Integrative analysis identifies key success factors in establishing innovation relating to the effectiveness of social systems, institutional thickness, governance, the role of human capital, and streamlining funding of urban development projects.

Cases from a range of geographies, scales, social and economic contexts Explores

how smart cities can promote

technological and social innovation in terms of direct impacts on livability,

productivity and sustainability Establishes

an integrative framework based on

empirical evidence to develop more innovative smart city initiatives

Investigates the role of governments in coordinating, fostering and guiding

innovations resulting from smart city

developments Interrogates the policies and

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governance structures which have been effective in supporting the development and deployment of smart cities

This book addresses the gap between innovative technologies and their adoption. It showcases research, feasibility studies and projects that demonstrate a variety of ways to implement environmental sustainability in globally operating firms, as well as best practices in areas such as international management, adoption of cleaner technologies, global supply chains, greenhouse gas emission reduction, and transportation. The book provides state-of-the-art information on issues including: Global sustainable management practices Global sustainable food and agricultural markets Global responsible mining and energy Global sustainable sourcing Global sustainable transportation Global conservation innovations and investments Presenting

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expert contributions from industry, government and academia, discussing a variety of themes and perspectives on the topic "international business as a positive force of environmental sustainability" it is a vital resource for stakeholders in the international business community.

Volume 1

Thomas Register of American
Manufacturers and Thomas Register
Catalog File

The Oxford Handbook of Industrial Hubs
and Economic Development

Towards Sustainable Customization:

Bridging Smart Products and
Manufacturing Systems

Rare Metal Technology 2021

An Introduction to Young Children With
Special Needs

This book features state-of-the-art
contributions from two well-

established conferences: Changeable, Agile, Reconfigurable and Virtual Production Conference (CARV2020) and Mass Customization and Personalization Conference (MCPC2020). Together, they focus on the joint design, development, and management of products, production systems, and business for sustainable customization and personalization. The book covers a large range of topics within this domain, ranging from industrial success factors to original contributions within the field. This book showcases cutting-edge research papers from the 6th International Conference on Research into Design (ICoRD 2017) – the largest in India in this area – written

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by eminent researchers from across the world on design process, technologies, methods and tools, and their impact on innovation, for supporting design for communities. While design traditionally focused on the development of products for the individual, the emerging consensus on working towards a more sustainable world demands greater attention to designing for and with communities, so as to promote their sustenance and harmony - within each community and across communities. The special features of the book are the insights into the product and system innovation process, and the host of methods and tools from all major areas of design

research for the enhancement of the innovation process. The main benefit of the book for researchers in various areas of design and innovation are access to the latest quality research in this area, with the largest collection of research from India. For practitioners and educators, it is exposure to an empirically validated suite of theories, models, methods and tools that can be taught and practiced for design-led innovation. The contents of this volume will be of use to researchers and professionals working in the areas on industrial design, manufacturing, consumer goods, and industrial management.

These proceedings summarize the best papers in each research field

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represented at the 2016 Annual Meeting of the Human Factors and Ergonomics Society (GfA) in the German-speaking area, held at Institute of Industrial Engineering and Ergonomics of RWTH Aachen University from March 2 – 4. The meeting featured more than 200 presentations and 36 posters reflecting the diversity of subject matter in the field of human and industrial engineering. This volume addresses human factors and safety specialists, industrial engineers, work and organizational psychologists, occupational medicines as well as production planners and design engineers.

Vols. for 1970-71 includes

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manufacturers' catalogs.

Proceedings of the Annual Meeting of
GfA 2016

Research into Design for
Communities, Volume 1

Decision Support Systems: Main
Developments & Future Trends

Select Proceedings of IPDIMS 2020

Understanding and Supporting
Product-Service System Designing

Financial Intermediation Versus
Disintermediation: Opportunities and
Challenges in the FinTech era

This document provides the
comprehensive list of Chinese
Industry Standards - Category:
QC; QC/T; QCT.

Disruptive technologies are
gaining importance in

healthcare systems and health informatics. By discussing computational intelligence, IoT, blockchain, cloud and big data analytics, this book provides support to researchers and other stakeholders involved in designing intelligent systems used in healthcare, its products, and its services. This book offers both theoretical and practical application-based chapters and presents novel technical studies on designing intelligent healthcare systems, products, and services. It offers conceptual and visionary content comprising hypothetical and speculative

scenarios and will also include recently developed disruptive holistic techniques in healthcare and the monitoring of physiological data.

Metaheuristic computational intelligence-based algorithms for analysis, diagnosis, and prevention of disease through disruptive technologies are also provided. Designing Intelligent Healthcare Systems, Products, and Services Using Disruptive Technologies and Health Informatics is written for researchers, academicians, and professionals to bring them up to speed on current research endeavours, as well as to

introduce hypothetical and speculative scenarios.

This book is a compilation of papers published in International Journal of Innovation and Technology Management. The chapters in the book focus on recent developments in the field of innovation and technology management. Carefully selected on the basis of relevance, rigor and research, the chapters in the book take the readers through various emerging topics and trends in the field. Written in a simple and accessible manner, the chapters in this book will be of

interest to academics, practitioners and general public interested in knowing about emerging trends in innovation and technology management. This book comprises select papers presented at the Conference on Innovative Product Design and Intelligent Manufacturing System (IPDIMS 2020). The book discusses the latest methods and advanced tools from different areas of design and manufacturing technology. The main topics covered include design methodologies, industry 4.0, smart manufacturing, and advances in robotics among

others. The contents of this book are useful for academics as well as professionals working in the areas of industrial design, mechatronics, robotics, and automation.

CIM Technology

Emerging Issues And Trends In
Innovation And Technology
Management

Systems Engineering and Its
Application to Industrial
Product Development

Smart Cities for Technological
and Social Innovation

Birth Through Age Eight

Computational and

Experimental Simulations in
Engineering

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Information is considered essential in every business model, which is why staying abreast of the latest resources can help combat many challenges and aid businesses in creating a synthesis between people and information, keeping up with evolving technologies, and keeping data accurate and secure. The Handbook of Research on Knowledge Management for Contemporary Business Environments is a critical scholarly publication that examines the management of knowledge resources in modern business contexts. Including a wide range of topics such as information systems, sustainable competitive advantage, and knowledge sharing, this

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publication is a vital reference source for managers, academicians, researchers, and students seeking current research on strategies that are able to manage the information in more than one context for present and future generations.

This book, with contributions by both leading scholars and industry experts, provides a coherent framework for understanding complex determinants and patterns of industry competitiveness. Divided into eight parts, it covers both quantitative and qualitative research on the following topics: technologies, economic development, and human resources in Industry 4.0; management in the digital

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economy; artificial intelligence and knowledge management approaches; drivers of sustainable and innovative development in corporations; resilient and competitive systems in the energy sector; compliance and anti-corruption mechanisms; and competence networks and technological integration. Thanks to its highly stimulating discussions on the determinants and patterns of industry competitiveness, this book appeals to a wide readership. This book is devoted to the customization design of product/service system (PSS), making use of a systematic design process and a number of methods, especially Industrial Customer Activity Cycle Analysis,

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Service Quality Function Deployment, Service Function and Attribute Analysis, Modified Service Blueprint, Multi-Objective Optimization and Multi-Criteria Recommendation Method. The book is especially valuable in manipulating the problems of PSS requirements analysis, design conflict, design reuse and proactively response to customer. The methods in the book facilitate modular design of customized solutions and enhance PSS design efficiency. Presenting case studies, this book helps researchers and practitioners to understand the customization process and methods in the early development of PSS.

Introduction to Information Systems, 8th Edition teaches

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undergraduate business majors how to use information technology to master their current or future jobs. Students develop a working understanding of information systems and information technology and learn how to apply concepts to successfully facilitate business processes. This program demonstrates that IT is the backbone of any business, whether a student is majoring in accounting, finance, marketing, human resources, production/operations management, or MIS. The Insights You Need from Harvard Business Review Proceedings of the 4th International Conference on Intelligent Computing and

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Optimization 2021 (ICO2021)
Process Systems Engineering for
Biofuels Development
Introduction to Information
Systems
Advances in Ergonomics in
Design
Technical Safety, Reliability and
Resilience

This book provides basics and selected advanced insights on how to generate reliability, safety and resilience within (socio) technical system developments. The focus is on working definitions, fundamental development processes, safety development processes and analytical methods on how to support such schemes. The

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method families of Hazard Analyses, Failure Modes and Effects Analysis and Fault Tree Analysis are explained in detail. Further main topics include semiformal graphical system modelling, requirements types, hazard log, reliability prediction standards, techniques and measures for reliable hardware and software with respect to systematic and statistical errors, and combination options of methods. The book is based on methods as applied during numerous applied research and development projects and the support and auditing of such projects, including highly safety-critical

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automated and autonomous systems. Numerous questions and answers challenge students and practitioners. The book focuses on smart computing for crowdfunding usage, looking at the crowdfunding landscape, e.g., reward-, donation-, equity-, P2P-based and the crowdfunding ecosystem, e.g., regulator, asker, backer, investor, and operator. The increased complexity of fund raising scenario, driven by the broad economic environment as well as the need for using alternative funding sources, has sparked research in smart computing techniques. Covering a wide

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range of detailed topics, the authors of this book offer an outstanding overview of the current state of the art; providing deep insights into smart computing methods, tools, and their applications in crowdfunding; exploring the importance of smart analysis, prediction, and decision-making within the fintech industry. This book is intended to be an authoritative and valuable resource for professional practitioners and researchers alike, as well as finance engineering, and computer science students who are interested in crowdfunding and other

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emerging fintech topics. The physical properties associated with the saturated and trans fats obtained through partial hydrogenation of vegetable oils (PHVOs) provide the solid fat content, melting and textural properties that consumers require in food products like butter, margarines, vegetable creams, spreads, and confectionary fats. However, saturated and trans fats increase low density lipoprotein, while trans fats also lower high-density lipoprotein serum levels. These indicators increase the risk of developing cardiovascular disease, type

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II diabetes, stroke, and have recently been associated with metabolic syndrome. Consequently, regulatory agencies worldwide have passed legislation restricting the addition of PHVOs and their derivatives (i.e., shortenings) to food products. This has lead research groups worldwide to investigate different mechanisms to provide structural and physical properties to edible, healthy unsaturated oils. The overall objective is to achieve similar functional properties to those provided by PHVOs and shortenings to food products. This book

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encompasses the work of leading researchers discussing, from a scientific and technological perspective, the latest and most innovative approaches to structure edible oils without the use of trans fats. Additionally, the authors discuss practical uses and technical limitations associated with the use of "structured edible oils" in different food systems. Appealing to researchers and professionals working in lipid science, food chemistry and fat metabolism, it fills the gap in the literature for a book in this fast-changing field.

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Mastering the complexity of innovative systems is a challenging aspect of design and product development. Only a systematic approach can help to embed an increasing degree of smartness in devices and machines, allowing them to adapt to variable conditions or harsh environments. At the same time, customer needs have to be identified before they can be translated into consistent technical requirements. The field of Systems Engineering provides a method, a process, suitable tools and languages to cope with the complexity of various systems such as motor

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vehicles, robots, railways systems, aircraft and spacecraft, smart manufacturing systems, microsystems, and bio-inspired devices. It makes it possible to trace the entire product lifecycle, by ensuring that requirements are matched to system functions, and functions are matched to components and subsystems, down to the level of assembled parts. This book discusses how Systems Engineering can be suitably deployed and how its benefits are currently being exploited by Product Lifecycle Management. It investigates the fundamentals of Model Based

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Systems Engineering (MBSE) through a general introduction to this topic and provides two examples of real systems, helping readers understand how these tools are used. The first, which involves the mechatronics of industrial systems, serves to reinforce the main content of the book, while the second describes an industrial implementation of the MBSE tools in the context of developing the on-board systems of a commercial aircraft.

Intelligent Computing & Optimization

*Three Pillars for Success,
Turning Goals Into Reality :*

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Annual Progress Report

1997-98

Face Recognition Technology

Foundry Management &

Technology

Case Studies, Current

Trends, and Future Steps

Preliminary Insights and

Support for Designing

Resource-Efficient and

Effective Solutions

**Can blockchain solve your
biggest business problem?**

**While news outlets are
transfixed with Bitcoin's
latest swings, your most
forward-looking competitors
are tuning out the noise and
quietly making key bets on
blockchain. They're**

effortlessly tracking every last link in their supply chains. They're making bureaucratic paper trails obsolete while keeping their customers' data safer. And they're imagining new ways to use this next foundational technology to sustain their competitive advantage. What should you be doing right now to ensure that your business is poised for success? These articles by blockchain experts and consultants will help you understand today's most essential thinking on what blockchain is capable of now, how to adopt it in your

organization, and how the technology is likely to be used in the near future and beyond. Blockchain: The Insights You Need from Harvard Business Review will help you spearhead important conversations, get going on the right blockchain initiatives in your company, and capitalize on the opportunity of the coming blockchain wave. Catch up on current topics and deepen your understanding of them with the Insights You Need series from Harvard Business Review. Featuring some of HBR's best and most recent

thinking, Insights You Need titles are both a primer on today's most pressing issues and an extension of the conversation, with interesting research, interviews, case studies, and practical ideas to help you explore how a particular issue will impact your company and what it will mean for you and your business.

This book of Springer Nature is another proof of Springer's outstanding and greatness on the lively interface of Smart Optimization, Computational Science, Human Intelligence and Machine Learning! It is a

Master Piece of what our community of Academics and Experts can provide when an Interdisciplinary Approach of Joint, Mutual and Deep Learning is supported by Modern Mathematics and Experience of the World-Leader Springer Nature! Fourth edition of International Conference on Intelligent Computing and Optimization took place at December 30-31, 2021, via ZOOM. Objective was to celebrate Compassion and Wisdom with researchers, scholars, experts and investigators in Intelligent Computing and

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Optimization worldwide, to share knowledge, experience, innovationmarvelous opportunity for discourse and mutuality by novel research, invention and creativity. This proceedings book of ICO2021 is published by Springer NatureQuality Label of Excellence. .

This book gathers selected research articles from the International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDIMS 2019), held at the National Institute of Technology, Rourkela, India. The book discusses

latest methods and advanced tools from different areas of design and manufacturing technology. The main topics covered include design methodologies, industry 4.0, smart manufacturing, and advances in robotics among others. The contents of this book are useful for academics as well as professionals working in industrial design, mechatronics, robotics, and automation.

The two volumes IFIP AICT 397 and 398 constitute the thoroughly refereed post-conference proceedings of the International IFIP WG 5.7

Conference on Advances in Production Management Systems, APMS 2012, held in Rhodes, Greece, in September 2012. The 182 revised full papers were carefully reviewed and selected for inclusion in the two volumes. They are organized in 6 parts: sustainability; design, manufacturing and production management; human factors, learning and innovation; ICT and emerging technologies in production management; product and asset lifecycle management; and services, supply chains and operations.

Blockchain

Robotics Products Database

Advanced Manufacturing

Systems and Innovative

Product Design

Designing Complex Products

with Systems Engineering

Processes and Techniques

Advances in Ergonomic

Design of Systems, Products

and Processes

Trends and Future Prospects

**This collection presents
papers from a symposium
on extraction of rare metals
as well as rare extraction
processing techniques used
in metal production. It
covers metals essential for**

critical modern technologies including electronics, electric motors, generators, energy storage systems, and specialty alloys. Rare metals are the main building blocks of many emerging critical technologies and have been receiving significant attention in recent years. Much research in academia and industry is devoted to finding novel techniques to extract critical and rare metals from primary and secondary sources. The technologies that rely on critical metals are dominating the world, and

finding a way to extract and supply them effectively is highly desirable and beneficial. Rapid development of these technologies entails fast advancement of the resource and processing industry for their building materials. Authors from academia and industry exchange knowledge on developing, operating, and advancing extractive and processing technologies. Contributions cover rare-earth elements (magnets, catalysts, phosphors, and others), energy storage materials (lithium, cobalt,

vanadium, graphite), alloy elements (scandium, niobium, titanium), and materials for electronics (gallium, germanium, indium, gold, silver). The contributions also cover various processing techniques in mineral beneficiation, hydrometallurgy, separation and purification, pyrometallurgy, electrometallurgy, supercritical fluid extraction, and recycling (batteries, magnets, electrical and electronic equipment).

Food Science and

Technology: Trends and Future Prospects presents different aspects of food science i.e., food microbiology, food chemistry, nutrition, process engineering that should be applied for selection, preservation, processing, packaging, and distribution of quality food. The authors focus on the fundamental aspects of food and also highlight emerging technology and innovations that are changing the food industry. The chapters are written by leading researchers, lecturers, and experts in

food chemistry, food microbiology, biotechnology, nutrition, and management. This book is valuable for researchers and students in food science and technology and it is also useful for food industry professionals, food entrepreneurs, and farmers. Proceedings of ICoRD 2017 IFIP WG 5.7 International Conference, APMS 2012, Rhodes, Greece, September 24-26, 2012, Revised Selected Papers, Part I Designing Intelligent Healthcare Systems, Products, and Services Using Disruptive

**Technologies and Health
Informatics
Proceedings of the 8th
Changeable, Agile,
Reconfigurable and Virtual
Production Conference
(CARV2021) and the 10th
World Mass Customization
& Personalization
Conference (MCPC2021),
Aalborg, Denmark,
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Industry Competitiveness:
Digitalization,
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Handbook of Research on
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