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KEY=SOLUTIONS - PETTY NIXON

TRIZ for Engineers: Enabling Inventive Problem Solving

John Wiley & Sons TRIZ is a brilliant toolkit for nurturing engineering creativity and innovation. This accessible, colourful and practical guide has been developed from problem-solving workshops run by Oxford Creativity, one of the world's top TRIZ training organizations started by Gadd in 1998. Gadd has successfully introduced TRIZ to many major organisations such as Airbus, Sellafield Sites, Saint-Gobain, DCA, Doosan Babcock, Kraft, Qinetiq, Trelleborg, Rolls Royce and BAE Systems, working on diverse major projects including next generation submarines, chocolate packaging, nuclear clean-up, sustainability and cost reduction. Engineering companies are increasingly recognising and acting upon the need to encourage successful, practical and systematic innovation at every stage of the engineering process including product development and design. TRIZ enables greater clarity of thought and taps into the creativity innate in all of us, transforming random, ineffective brainstorming into targeted, audited, creative sessions focussed on the problem at hand and unlocking the engineers' knowledge and genius to identify all the relevant solutions. For good design engineers and technical directors across all industries, as well as students of engineering, entrepreneurship and innovation, TRIZ for Engineers will help unlock and realise the potential of TRIZ. The individual tools are straightforward, the problem-solving process is systematic and repeatable, and the results will speak for themselves. This highly innovative book: Satisfies the need for concise, clearly presented information together with practical advice on TRIZ and problem solving algorithms Employs explanatory techniques, processes and examples that have been used to train thousands of engineers to use TRIZ successfully Contains real, relevant and recent case studies from major blue chip companies Is illustrated throughout with specially commissioned full-colour cartoons that illustrate the various concepts and techniques and bring the theory to life Turns good engineers into great engineers.

Current Scientific and Industrial Reality

Proceedings of the TRIZ-Future Conference 2007 ; Frankfurt, Germany, November, 6th - 8th, 2007

kassel university press GmbH

Solid Solutions in Silicate and Oxide systems

The Mineralogical Society of Great Britain and Ireland

Design Solutions for User-Centric Information Systems

IGI Global Continuous improvements in technological applications have allowed more opportunities to develop systems with user-focused designs. This not only leads to higher success in day-to-day usage, but it increases the overall probability of technology adoption. *Design Solutions for User-Centric Information Systems* provides a comprehensive examination of the latest strategies and methods for creating technological systems with end users as the focal point of the design process. Highlighting innovative practices and applications across a variety of areas, such as cloud-based computing services, e-government adoption, and logistics evaluation, this book is an ideal reference source for computer engineers, practitioners, project managers, graduate students, and researchers interested in the enhancement of user-centric information system development.

The Numerical Solution of Systems of Polynomials Arising in Engineering and Science

World Scientific ' Written by the founders of the new and expanding field of numerical algebraic geometry, this is the first book that uses an algebraic-geometric approach to the numerical solution of polynomial systems and also the first one to treat numerical methods for finding positive dimensional solution sets. The text covers the full theory from methods developed for isolated solutions in the 1980's to the most recent research on positive dimensional sets. Contents:Background:Polynomial SystemsHomotopy ContinuationProjective SpacesGenericity and Probability OnePolynomials of One VariableOther MethodsIsolated Solutions:Coefficient-Parameter HomotopyPolynomial StructuresCase StudiesEndpoint EstimationChecking Results and Other Implementation TipsPositive Dimensional Solutions:Basic Algebraic GeometryBasic Numerical Algebraic GeometryA Cascade Algorithm for Witness SupersetsThe Numerical Irreducible DecompositionThe Intersection of Algebraic SetsAppendices:Algebraic GeometrySoftware for Polynomial ContinuationHomLab User's Guide Readership: Graduate students and researchers in applied mathematics and mechanical engineering. Keywords:Polynomial Systems;Numerical Methods;Homotopy Methods;Mechanical Engineering;Numerical Algebraic Geometry;Kinematics;RoboticsKey Features:Useful introduction to the field for graduate students and researchers in related areasIncludes exercises suitable for classroom use and self-studyIncludes Matlab software to illustrate the methodIncludes many graphical illustrationsIncludes a detailed summary of useful results from algebraic geometryReviews:"The text is written in a very smooth and intelligent form, yielding a readable book whose contents are accessible to a wide class of readers, even to undergraduate students, provided that they accept that some delicate points of some of the proofs could be omitted. Its readability and fast access to the core of the book makes it recommendable as a pleasant read."Mathematical Reviews "This is an excellent book on numerical solutions of polynomials systems for engineers, scientists and numerical analysts. As pioneers of the field of numerical algebraic geometry, the authors have provided a comprehensive summary of ideas, methods, problems of numerical algebraic geometry and applications to solving polynomial systems. Through the book readers will experience the authors' original ideas, contributions and their techniques in handling practical problems ... Many interesting examples from engineering and science have been used throughout the book. Also the exercises are well designed in line with the content, along with the algorithms, sample programs in Matlab and author's own software 'HOMLAB' for polynomial continuation. This is a remarkable book that I recommend to engineers, scientists, researchers, professionals and students, and particularly numerical analysts who will benefit from the rapid development of numerical algebraic geometry."Zentralblatt MATH '

Handbook of Research on Educational Communications and Technology

Taylor & Francis This edition of this handbook updates and expands its review of the research, theory, issues and methodology that constitute the field of educational communications and technology. Organized into seven sectors, it profiles and integrates the following elements of this rapidly changing field.

Advanced Solutions of Transport Systems for Growing Mobility

14th Scientific and Technical Conference "Transport Systems. Theory & Practice 2017"

Selected Papers

Springer What are the parameters that should be taken into account in an advanced simulation model designed for a transport system that promotes green travelling policies? How can the goal of modal shift be pursued through ICT solutions? Is it enough to apply only a single criterion when planning transport systems? What is the importance of information acquisition and provision in Intelligent Transport Systems? Answers to these and many other questions can be found in this publication. It also contains numerous analyses based on relevant data sets, illustrating the close relationship between ITS and the changes observed in terms of how specific means of transport are used. What proves to be particularly important for advanced transport systems is the use of environmentally friendly solutions that reduce their negative environmental impacts; accordingly, the book also addresses this aspect. With regard to the research results discussed and the selected solutions applied, the book primarily addresses the needs of three target groups: · Scientists and researchers (ITS field) · Local authorities (responsible for transport systems at the urban and regional level) · Representatives of business (traffic strategy management) and industry (manufacturers of ITS components) Advanced Solutions of Transport Systems for Growing Mobility gathers selected papers presented at the 14th “Transport Systems. Theory and Practice” Scientific and Technical Conference, organized by the Department of Transport Systems and Traffic Engineering at the Faculty of Transport of the Silesian University of Technology. The conference was held on 18-20 September 2017 in Katowice (Poland). More details at www.TSTP.polsl.pl

IBM System Storage Solutions Handbook

IBM Redbooks The IBM® System Storage® Solutions Handbook helps you solve your current and future data storage business requirements. It helps you achieve enhanced storage efficiency by design to allow managed cost, capacity of growth, greater mobility, and stronger control over storage performance and management. It describes the most current IBM storage products, including the IBM Spectrum™ family, IBM FlashSystem®, disk, and tape, as well as virtualized solutions such IBM Storage Cloud. This IBM Redbooks® publication provides overviews and information about the most current IBM System Storage products. It shows how IBM delivers the right mix of products for nearly every aspect of business continuance and business efficiency. IBM storage products can help you store, safeguard, retrieve, and share your data. This book is intended as a reference for basic and comprehensive information about the IBM Storage products portfolio. It provides a starting point for establishing your own enterprise storage environment. This book describes the IBM Storage products as of March, 2016.

Classic and Advanced Ceramics

From Fundamentals to Applications

John Wiley & Sons Based on the author's lectures to graduate students of geosciences, physics, chemistry and materials science, this didactic handbook covers basic aspects of ceramics such as composition and structure as well as such advanced topics as achieving specific functionalities by choosing the right materials. The focus lies on the thermal transformation processes of natural raw materials to arrive at traditional structural ceramics and on the general physical principles of advanced functional ceramics. The book thus provides practice-oriented information to readers in research, development and engineering on how to understand, make and improve ceramics and derived products, while also serving as a rapid reference for the practitioner. The choice of topics and style of presentation make it equally useful for chemists, materials scientists, engineers and mineralogists.

Filter Design Solutions for RF systems

MDPI This Special Issue focuses on the state-of-the-art results from the definition and design of filters for low- and high-frequency applications and systems. Different technologies and solutions are commonly adopted for filter definition, from electrical to electromechanical and mechanical solutions, from passive to active devices, and from hybrid to integrated designs. Aspects related to both theoretical and experimental research in filter design, CAD modeling and novel technologies and applications, as well as filter fabrication, characterization and testing, are covered. The proposed research articles deal with different topics as follows: Modeling, design and simulation of filters; Processes and fabrication technologies for filters; Automated characterization and test of filters; Voltage and current mode filters; Integrated and discrete filters; Passive and active filters; Variable filters, characterization and tunability.

Intelligent Data Engineering and Automated Learning -- IDEAL 2012

13th International Conference, Natal, Brazil, August 29-31, 2012, Proceedings

Springer This book constitutes the refereed proceedings of the 13th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2012, held in Natal, Brazil, in August 2012. The 100 revised full papers presented were carefully reviewed and selected from more than 200 submissions for inclusion in the book and present the latest theoretical advances and real-world applications in computational intelligence.

Advanced Solutions in Power Systems

HVDC, FACTS, and Artificial Intelligence

John Wiley & Sons Provides insight on both classical means and new trends in the application of power electronic and artificial intelligence techniques in power system operation and control This book presents advanced solutions for power system controllability improvement, transmission capability enhancement and operation planning. The book is organized into three parts. The first part describes the CSC-HVDC and VSC-HVDC technologies, the second part presents the FACTS devices, and the third part refers to the artificial intelligence techniques. All technologies and tools approached in this book are essential for power system development to comply with the smart grid requirements. Discusses detailed operating principles and diagrams, theory of modeling, control strategies and physical installations around the world of HVDC and FACTS systems Covers a wide range of Artificial Intelligence techniques that are successfully applied for many power system problems, from planning and monitoring to operation and control Each chapter is carefully edited, with drawings and illustrations that helps the reader to easily understand the principles of operation or application Advanced Solutions in Power Systems: HVDC, FACTS, and Artificial Intelligence is written for graduate students, researchers in transmission and distribution networks, and power system operation. This book also serves as a reference for professional software developers and practicing engineers.

Nuclear Science Abstracts

Thermodynamic Properties of Liquid Metal Solutions in the Sodium-mercury System at 200°C

Medical Device Companies Directory Book 2015

KOREA Medical Device Companies

□□□□□□ This brochure illustrates a project promoted by Korean medical device companies wanting to develop a presence in global market with support from Korean government. Inside you will find how korean medical device companies are reliable partners for global collaboration.

Nonlinear and Optimal Control Theory

Lectures given at the C.I.M.E. Summer School held in Cetraro, Italy, June 19-29, 2004

Springer The lectures gathered in this volume present some of the different aspects of Mathematical Control Theory. Adopting the point of view of Geometric Control Theory and of Nonlinear Control Theory, the lectures focus on some aspects of the Optimization and Control of nonlinear, not necessarily smooth, dynamical systems. Specifically, three of the five lectures discuss respectively: logic-based switching control, sliding mode control and the input to the state stability paradigm for the control and stability of nonlinear systems. The remaining two lectures are devoted to Optimal Control: one investigates the connections between Optimal Control Theory, Dynamical Systems and Differential Geometry, while the second presents a very general version, in a non-smooth context, of the Pontryagin Maximum Principle. The arguments of the whole volume are self-contained and are directed to everyone working in Control Theory. They offer a sound presentation of the methods employed in the control and optimization of nonlinear dynamical systems.

A First Course in Computational Algebraic Geometry

Cambridge University Press A First Course in Computational Algebraic Geometry is designed for young students with some background in algebra who wish to perform their first experiments in computational geometry. Originating from a course taught at the African Institute for Mathematical Sciences, the book gives a compact presentation of the basic theory, with particular emphasis on explicit computational examples using the freely available computer algebra system, Singular. Readers will quickly gain the confidence to begin performing their own experiments.

LUCAS Associative Array Processor

Design, Programming and Application Studies

Springer Science & Business Media After historical introduction, the aspiration technique and imaging modalities are described. Thereafter, the use of aspiration cytology in the diagnosis and mainly in the staging of urologic cancers is on still not well known applications of the procedure in the staging of some organs (bladder, adrenals, penis, testis and secondary ureteral strictures) are reported.

Geographic Information Systems: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global Developments in technologies have evolved in a much wider use of technology throughout science, government, and business; resulting in the expansion of geographic information systems. GIS is the academic study and practice of presenting geographical data through a system designed to capture, store, analyze, and manage geographic information. Geographic Information Systems: Concepts, Methodologies, Tools, and Applications is a collection of knowledge on the latest advancements and research of geographic information systems. This book aims to be useful for academics and practitioners involved in geographical data.

Mathematical Aspects of Numerical Solution of Hyperbolic Systems

CRC Press This important new book sets forth a comprehensive description of various mathematical aspects of problems originating in numerical solution of hyperbolic systems of partial differential equations. The authors present the material in the context of the important mechanical applications of such systems, including the Euler equations of gas dynamics, magnetohydrodynamics (MHD), shallow water, and solid dynamics equations. This treatment provides-for the first time in book form-a collection of recipes for applying higher-order non-oscillatory shock-capturing schemes to MHD modelling of physical phenomena. The authors also address a number of original "nonclassical" problems, such as shock wave propagation in rods and composite materials, ionization fronts in plasma, and

electromagnetic shock waves in magnets. They show that if a small-scale, higher-order mathematical model results in oscillations of the discontinuity structure, the variety of admissible discontinuities can exhibit disperse behavior, including some with additional boundary conditions that do not follow from the hyperbolic conservation laws. Nonclassical problems are accompanied by a multiple nonuniqueness of solutions. The authors formulate several selection rules, which in some cases easily allow a correct, physically realizable choice. This work systematizes methods for overcoming the difficulties inherent in the solution of hyperbolic systems. Its unique focus on applications, both traditional and new, makes *Mathematical Aspects of Numerical Solution of Hyperbolic Systems* particularly valuable not only to those interested the development of numerical methods, but to physicists and engineers who strive to solve increasingly complicated nonlinear equations.

Thermodynamics of Small Systems, Parts I & II

Courier Corporation Authoritative summary introduces basics, explores environmental variables, examines binding on macromolecules and aggregation, and includes brief summaries of electric and magnetic fields, spherical drops and bubbles, and polydisperse systems. 1963 and 1964 editions.

An Explicit Linear Filtering Solution for the Optimization of Guidance Systems with Statistical Inputs

Mixed Surfactant Systems, Second Edition

CRC Press Completely revised and expanded throughout, *Mixed Surfactant Systems, Second Edition* surveys the latest results, newest experimental perspectives, and theoretical investigations of properties, behavior, and techniques applicable to mixed surfactant systems. This important book elucidates core theoretical notions while summarizing results of cutting-edge studies in nanoscale phase separation at monolayers of mixed amphiphiles, nanocapsule preparation through mixtures of cationic and anionic polymer amphiphiles, and the photodegradation of mixed surfactant systems by titanium dioxide. The book provides new sections on topics including: Diffusion of mixed micelles Mixed micelles of fluorinated and conventional surfactants Sponge-like vesicles of mixed surfactants Liquid crystals of mixed surfactants Mixtures of surfactants and polymers Photolysis of mixed surfactants Reflecting the abundance of current and emerging applications in the field, *Mixed Surfactant Systems, Second Edition* compiles chapters written by world-renowned leaders in industry for an up-to-date scientific account of the dynamics of mixed surfactant systems, including physicochemical properties and behavior of surfactant mixtures in detergency and surfactant precipitation.

Neutrosophic Sets and Systems

An International Book Series in Information Science and Engineering, vol. 19, 2018

Infinite Study "Neutrosophic Sets and Systems" has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc.

Emerging Solutions for Future Manufacturing Systems

IFIP TC 5 / WG 5.5. Sixth IFIP International Conference on Information Technology for

Balanced Automation Systems in Manufacturing and Services, 27-29 September 2004, Vienna, Austria

Springer 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).

Wicked Solutions : A Systems Approach to Complex Problems

Lulu.com Wicked problems are complex, ill-structured, human problem situations. This book will help you design an inquiry and intervention in such messy, wicked situations. It does so by guiding you through the steps and stages of a systemic process that addresses your own wicked problem. Limited references to systems theory and history acquaint you with the key principles to work wicked problems on your own. The focus of this book on systems thinking is on a critically important question that often goes unanswered: "Where do I start?" It also provides numerous tips and tricks to keep you on the right track. You will find that the systems approaches in this book will not only help you to address wicked problems yourselves, but also that it will give you a basic grasp of what is involved in other systems methods. Few other investments in your intellectual toolbox could claim the same.

Theory and Practice of Cryptography Solutions for Secure Information Systems

IGI Global Information Systems (IS) are a nearly omnipresent aspect of the modern world, playing crucial roles in the fields of science and engineering, business and law, art and culture, politics and government, and many others. As such, identity theft and unauthorized access to these systems are serious concerns. Theory and Practice of Cryptography Solutions for Secure Information Systems explores current trends in IS security technologies, techniques, and concerns, primarily through the use of cryptographic tools to safeguard valuable information resources. This reference book serves the needs of professionals, academics, and students requiring dedicated information systems free from outside interference, as well as developers of secure IS applications. This book is part of the Advances in Information Security, Privacy, and Ethics series collection.

Decision Support Systems VI - Addressing Sustainability and Societal Challenges 2nd International Conference, ICDSST 2016, Plymouth, UK, May 23-25, 2016, Proceedings

Springer This book constitutes the refereed proceedings of the Second International Conference on Decision Support Systems Technology, ICDSST 2016, held in Plymouth, UK, May 23-25. The theme of the event was "Decision Support Systems Addressing Sustainability & Societal Challenges", organized by the EURO (Association of European Operational Research Societies) working group of Decision Support Systems (EWG-DSS). The 15 full papers presented in this book were selected out of 51 submissions after being carefully reviewed by internationally experts from the ICDSST 2016 Program Committee and external invited reviewers. The selected papers are representative of current and relevant research activities in various areas of decision support systems, such as sustainability and societal challenges; risk management and project portfolio management; business intelligence and knowledge management; and technologies to improve system usability.

Revue Roumaine de Chimie

IBM System Storage Business Continuity: Part 2 Solutions Guide

IBM Redbooks This IBM Redbooks publication is a companion to IBM System Storage Business Continuity: Part 1 Planning Guide, SG24-6547 . We assume that the reader of this book has understood the concepts of Business Continuity planning described in that book. In this book we explore IBM System Storage solutions for Business Continuity, within the three segments of Continuous Availability, Rapid Recovery, and Backup and Restore. We position these solutions within the Business Continuity tiers. We describe, in general, the solutions available in each segment, then present some more detail on many of the products. In each case, the reader is pointed to sources of more information.

Optimal Control Models in Finance

A New Computational Approach

Springer Science & Business Media This book reports initial efforts in providing some useful extensions in financial modeling; further work is necessary to complete the research agenda. The demonstrated extensions in this book in the computation and modeling of optimal control in finance have shown the need and potential for further areas of study in financial modeling. Potentials are in both the mathematical structure and computational aspects of dynamic optimization. There are needs for more organized and coordinated computational approaches. These extensions will make dynamic financial optimization models relatively more stable for applications to academic and practical exercises in the areas of financial optimization, forecasting, planning and optimal social choice. This book will be useful to graduate students and academics in finance, mathematical economics, operations research and computer science. Professional practitioners in the above areas will find the book interesting and informative. The authors thank Professor B.D. Craven for providing extensive guidance and assistance in undertaking this research. This work owes significantly to him, which will be evident throughout the whole book. The differential equation solver "nqq" used in this book was first developed by Professor Craven. Editorial assistance provided by Matthew Clarke, Margarita Kumnick and Tom Lun is also highly appreciated. Ping Chen also wants to thank her parents for their constant support and love during the past four years.

Talent Management Systems

Best Practices in Technology Solutions for Recruitment, Retention and Workforce Planning

John Wiley & Sons Talent Management Systems addresses the transformation Web-based technologies have brought to workforce acquisition and management. It examines proven and leading-edge best practices, and what tactics and strategies organizations should employ to remain competitive in this arena. The book is part practical, offering advice on how to institute best practices in e-recruitment and talent management, and strategic, discussing trends and state of the art technology and practices that should be adopted or avoided. "We're at the brink of the next global battle in the war for talent, and companies with a firm grasp on today's technologies, and the best view over the horizon, are positioned to win. No one understands the intersection of talent and technology better than Allan Schweyer and, as this book demonstrates, no one tells us the story as clearly as he. This is an essential read and an important work in the now-critical discipline of human capital management." —Michael Foster, CEO, AIRS, and Author of Recruiting on the Web "Allan Schweyer has been on the leading edge of recruitment technology since the dawn of the Internet. In many ways the Internet has created more confusion than solutions for the world of recruiting and talent management. It has certainly made things more complex. HR professionals and even company presidents have become desperate for clarity on the future of talent management-Allan Schweyer's book provides that clarity and establishes him as the authority on web-based hiring and talent management. No major implementation decision should be made without this invaluable guide." —Graham Donald, President, Brainstorm Consulting "Talent management has suddenly gone from being a nice idea to a core business function. No one knows more about this new function, and the technologies that make it possible, than Allan Schweyer." —David Creelman, Senior Contributing Editor, HR.com, and Independent

Human Capital Analyst "Once again, Schweyer has produced the best writing in North America on this subject, which I've covered for fifteen years." —Bill Kutik, Technology Columnist, Human Resource Executive "As corporate executives quickly come to the shocking realization that the global workforce—and how that talent is managed and developed both locally and globally—will almost unilaterally determine their future success in global markets, few workforce experts have bothered to provide business leaders with a useful compass and map for the next chapter of workforce management. Mr. Schweyer generously and eloquently provides the talent compass and workforce map for the first pragmatic steps of the new global journey." —John Chaisson, CEO, Global Workforce Solutions

The Good Skin Solution

Natural Healing for Eczema, Psoriasis, Rosacea and Acne

Hay House, Inc Discover the surprising connection between your skin and gut with this easy-to-understand guide on natural treatments for eczema and other skin conditions Eczema is the most common skin disorder in the industrialized world, followed closely by psoriasis, rosacea, and acne. While conventional medicine offers no permanent solutions to these conditions, natural health author Shann Nix Jones has discovered a chemical-free method that delivers life-changing results. In the Good Skin Solution, Shann recounts her struggle to heal her son's eczema and save her husband from a life-threatening MRSA superbug infection. She was shocked to learn that eczema isn't just a skin condition after all, but an autoimmune disorder. Your skin is simply a map of your gut—and in order to heal your skin, you must start from the inside. Shann reveals the latest scientific research about the "microbiome," the vast ecosystem of microorganisms that lives inside us. In simple, easy-to-understand language, she explains the gut-skin connection: what eczema, psoriasis, rosacea, and acne really are; why they're often accompanied by hay fever, asthma, IBS, and food allergies; and how adopting the kefir-based Good Skin Solution can help treat the symptoms and the underlying causes. If you or anyone you know suffers from an ongoing skin condition, this book could be the lifeline you've been waiting for.

Solutions for Cyber-Physical Systems Ubiquity

IGI Global Cyber-physical systems play a crucial role in connecting aspects of online life to physical life. By studying emerging trends in these systems, programming techniques can be optimized and strengthened to create a higher level of effectiveness. Solutions for Cyber-Physical Systems Ubiquity is a critical reference source that discusses the issues and challenges facing the implementation, usage, and challenges of cyber-physical systems. Highlighting relevant topics such as the Internet of Things, smart-card security, multi-core environments, and wireless sensor nodes, this scholarly publication is ideal for engineers, academicians, computer science students, and researchers that would like to stay abreast of current methodologies and trends involving cyber-physical system progression.

Scientific and Technical Aerospace Reports

Excelling on a Digital Transformation Journey

A Field Guide to Help You Define Your Success

Quality Press Disruption impacts every industry, and it is essential for an organization to meet or exceed stakeholder expectations. How an organization manages the ever-changing world of digital evolution in the present will ultimately shape and determine its future. With this field guide, you will learn how to integrate people, processes, and technology to create greater efficiencies and profit. More importantly, you'll realize that digital transformation is a dynamic, ongoing process that allows your organization to not just survive but thrive in the world of digital evolution. This field guide provides insight and guidance by: - Explaining how organizations can embrace digital disruption and redefine how they work and serve employees and customers - Streamlining an ongoing current digital transformation journey while being proactive and envisioning big-picture outcomes - Evaluating three components that are critical to an organization's future and understanding how to incorporate them into strategic and tactical plans - Reviewing lessons learned by global market leaders that have been able to pivot digitally to meet their customer's needs

Computer Vision -- ACCV 2012

11th Asian Conference on Computer Vision, Daejeon, Korea, November 5-9, 2012, Revised Selected Papers, Part IV

Springer The four-volume set LNCS 7724--7727 constitutes the thoroughly refereed post-conference proceedings of the 11th Asian Conference on Computer Vision, ACCV 2012, held in Daejeon, Korea, in November 2012. The total of 226 contributions presented in these volumes was carefully reviewed and selected from 869 submissions. The papers are organized in topical sections on object detection, learning and matching; object recognition; feature, representation, and recognition; segmentation, grouping, and classification; image representation; image and video retrieval and medical image analysis; face and gesture analysis and recognition; optical flow and tracking; motion, tracking, and computational photography; video analysis and action recognition; shape reconstruction and optimization; shape from X and photometry; applications of computer vision; low-level vision and applications of computer vision.

Harmonic Wave Systems: Partial Differential Equations of the Helmholtz Decomposition

Scientific Research Publishing, Inc. USA *Harmonic Wave Systems* is the first textbook about the computational method of Decomposition in Invariant Structures (DIS) that generalizes the analytical methods of separation of variables, undetermined coefficients, asymptotic expansions, and series expansions. In recent years, there has been a boom in publications on propagation of nonlinear waves described by a fascinating list of partial differential equations (PDEs). The vast majority of wave problems are reducible to one-dimensional ones in propagation variables. However, a list of publications with two- and three-dimensional applications of the DIS method is brief. The book offers a comprehensive and rigorous treatment of the DIS method in two and three dimensions using the PDE approach to the Helmholtz decomposition that provides the most general background for mathematical modelling of harmonic waves in fluid dynamics, electrodynamics, heat transfer, and other numerous areas of science and engineering, which are dealing with propagation and interaction of N internal waves.

MemComputing

Fundamentals and Applications

Oxford University Press This book explains the main ideas behind MemComputing, its theoretical foundations and its applicability to a wide variety of combinatorial optimization problems, machine learning, and quantum mechanics.

How Concepts Solve Management Problems

Edward Elgar Publishing This book offers a process for conceiving solutions to complex, wicked, messy, swampy or socio-technical problems. When charged with complex problem solving, a useful set of concepts needs to emerge, be agreed, and acted upon. Using relevant examples a