

Triz Principles For Information Technology

This exciting new book presents the Theory of Inventive Problem Solving (TRIZ), a process that will provoke a breakthrough in your thinking patterns and the way you approach problem solving. The pillar of TRIZ is that contradiction can be methodically resolved through the application of innovative solutions. The Three Premises of TRIZ The ideal design is a goal Contradictions help solve problems The innovative process can be structured systematically With Systematic Innovation you will learn how to stop seeing conflicts as insurmountable barriers and instead celebrate them as opportunities for improvement and refinement of the design process. You will learn how to eliminate the words "tradeoff" and "compromise" from your vocabulary. The ideal design will become an expectation, not just a dream. By practicing the methods presented in this book, you will increase innovation and radically improve design. Discover the "science" of creativity!

Many of the project management methods and techniques of the past are still being used today, even though the technology, management and environment have changed. Information Technology Project Management explores the need to employ a modern project management approach to reflect today's environment. Focusing on IT projects, Lientz provides a comprehensive examination of the project management process, from the initiation of the project through to the planning, design, execution and closing. Key Features: • Detailed coverage of PMBoK and PRINCE2 methodologies • Explores the practical aspects of project management • Extensive case studies from a variety of industries • Checklists and scorecards to measure all aspects of the project management process • Coverage of HRM and other 'soft' elements of project management • Guidelines on preventing project problems and failure Based on the authors own extensive industry and teaching practice, Information Technology Project Management is an essential resource for undergraduate, postgraduate and MBA students studying project management. Earlier editions of this work were published as Breakthrough Technology Project Management.

The revised and updated third edition of Simplified TRIZ: New Problem Solving Applications for Technical and Business Professionals, 3rd Edition continues to demystify TRIZ (systematic innovation), the internationally acclaimed problem solving technique. It demonstrates how TRIZ can be used as a stand alone methodology or used to enhance Lean, Six Sigma, and other systems of organizational improvement. Simplified TRIZ 3rd Edition once again strikes the perfect balance between overly complex and overly simplified, making the effective application of TRIZ accessible to a wide audience. In addition to numerous exercises, worksheets, and tables that further illustrate the concepts of this multinational method, this indispensable volume: Presents a new model for problem solving based on four TRIZ tenets ? contradictions, resources, ideality, and patterns of evolution ? elucidated for better understanding and application Contains three new chapters: Functional analysis - Emphasizes a "how to" approach to functional analysis that strongly improves your ability to define the problem to be solved, radically enhancing the value of the creative solutions that TRIZ makes possible. Innovative solutions for difficult challenges – Two detailed case studies sharing the experiences in solving challenging problems in innovative ways Systematic Innovation on the fly – How to utilize individual innovation tools for quick innovative effect Multiple other new case studies throughout The addition of Lean in the chapter on integrated methodologies More links between chapters increasing the understanding of application More application examples demonstrating application techniques of professionals Clarifies how the patterns of evolution are used to generate both "what-if" scenarios, and real-world forecasts with remarkable accuracy. Illustrates how small and large companies, government agencies, and other groups of people are using TRIZ and achieving significant results and gives you step-by-step instructions on bringing TRIZ into your organization. With the valuable tools explained within these pages you will be able to find innovative solutions to problems, understand the natural evolution of systems, and develop more and better ideas faster.

TRIZ is the Russian acronym for theory of inventive problem solving. The basic assumption behind this theory is "someone somewhere has already solved your problem or a very similar problem, and all we need to do is apply the same principle to the current problem and solve it similarly." It guides you to think in a specific direction rather than getting lost. The goal of this book is to use some of the simple TRIZ tools to help readers immediately solve problems, innovate, be creative, think, and discover the joy of experiencing the thinking process in new dimensions that you might not have previously. It is specifically focused on helping nonengineering and management professionals to apply the concepts of TRIZ immediately and reap benefits. Interspersed throughout the book are vignettes from the author's round-the-world bicycle tour on a budget of less than five U.S. dollars per day, having conducted close to 50 workshops and training sessions and trained more than 1,000 professionals on TRIZ without any remuneration throughout 21 countries, including Thailand, Laos, Vietnam, China, Kyrgyzstan, Uzbekistan, Turkmenistan, Iran, Turkey, Georgia, Armenia, Greece, Italy, France, Spain, and Portugal.

This introductory book describes the initial (first) level of studying the theory of inventive problem solving (TRIZ) from the series "TRIZ from A to Z," and presents the most general methods for solving inventive problems and generating new ideas. Chapter 1 examines traditional technologies for problem solving, based on trial and error. Chapter 2 describes the general concept of TRIZ, while Chapter 3 explains the main notions of "system" approaches, like system thinking, system and its hierarchy, system effect, emergency, synergetic effect and systematicity. In turn, Chapter 4 describes the notion of "ideality" and Chapter 5 addresses the notion of resources, their types, and methods for using them. Chapter 6 acquaints readers with one of the most important aspects of TRIZ: contradiction. Chapter 7 describes the inventive principles, while Chapter 8 includes descriptions of the systems of trends proposed by G. Altshuller and the author. In closing, the author makes recommendations on how to most effectively use TRIZ tools, on how readers can improve their knowledge, skills and habits concerning the use of TRIZ, and on how they can hone their inventive thinking skills. The book also features Appendices that include analyses of selected problems, a list of the main websites related to TRIZ, and lists of examples, problems, illustrations, tables and formulae. This book contains an edited version of the lectures and selected contributions presented during the Advanced Summer Institute on "Product Engineering: Eco-Design, Technologies and Green Energy" organized at the st Transilvania University of Brasov (Romania) in the period 14-21 of July 2004. The Advanced Summer Institute (ASI) was organized in the framework of the European FP5 funded project "ADEPT – Advanced computer aided Design of Ecological Products and Technologies integrating green energy sources" and was devoted to the Product Engineering field, with particular attention to the aspects related to the environmentally conscious design and green energy sources. The objective of the ASI was to create the framework for meeting of leading scientists with PhD holders and advanced PhD students carrying out research in the field of Eco-Design, CAD, Simulation technologies, Robotics, Manufacturing and green energy sources. The aim was to create conditions for high level training through a series of 15 invited lectures presented by world reputed scientists, as well as to give possibilities for young researchers to present their achievements and to establish professional contacts. The ASI was seen also as an opportunity for academics, practitioners and consultants from Europe and elsewhere who are involved in the study, management, development and implementation of product engineering principles in the learning and teaching sectors, as well as professionals to come together and share ideas on projects and examples of best practice.

Volume is indexed by Thomson Reuters CPCI-S (WoS). The studies presented here cover composites, micro/nano-materials and equipment, metallic alloys, steels, polymer materials, optical/electronic/magnetic materials, energy materials and new energy technology, environmentally-friendly materials and waste utilization, biomaterials and preparation technology, thin films, structural materials and earthquake-resistant structures, functional materials, surface-engineering/coatings, modeling, analysis and simulation, materials processing technology, laser-processing technology, mechanical behavior and fracture, tooling testing and evaluation of materials, thermal engineering theory and applications, detection and control technology.

The field of intelligent decision technologies is interdisciplinary in nature, bridging computer science with its development of

artificial intelligence, information systems with its development of decision support systems, and engineering with its development of systems. This book presents the 45 papers accepted for presentation at the 5th KES International Conference on Intelligent Decision Technologies (KES-IDT 2013), held in Sesimbra, Portugal, in June 2013. The conference consists of keynote talks, oral and poster presentations, invited sessions and workshops on the applications and theory of intelligent decision systems and related areas. The conference provides an opportunity for the presentation and discussion of interesting new research results, promoting knowledge transfer and the generation of new ideas. The book will be of interest to all those whose work involves the development and application of intelligent decision systems.

Life cycle engineering explores technologies for shifting industry from mass production and consumption paradigms to closed-loop manufacturing paradigms, in which required functions are provided with the minimum amount of production. This subject is discussed from various aspects: life cycle design, design for environment, reduce-reuse-recycle, life cycle assessment, and sustainable business models. This book collects papers from the 14th International CIRP Life Cycle Engineering Conference, the longest-running annual meeting in the field.

The aim objective of CME 2014 is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Information Management, Innovation Management, Project Management and Engineering. This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration. Submitted conference papers will be reviewed by technical committees of the Conference.

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ICEM2014 is to offer scholars, professionals, academics and graduate students to present, share, and discuss their studies from various perspectives in the aspects of social science. The ICEM2014 is hosted by Advance Information Science Research Center and is sponsored by DEStech Publication, Inc., South China University of Technology, Guangdong University of Foreign Studies. This proceedings tends to collect the up-to-date, comprehensive and worldwide state-of-art knowledge on economics and management. All of accepted papers were subjected to strict peer- reviewing by 2–4 expert referees. The papers have been selected for this proceedings based on originality, significance, and clarity for the purpose of the conference. The selected papers and additional late-breaking contributions to be presented will make an exciting technical program on conference. The conference program is extremely rich, featuring high-impact presentation. We hope this conference will not only provide the participants a broad overview of the latest research results on economics and management, but also provide the participants a significant platform to build academic connections. ICEM2014 would like to express our sincere appreciations to all authors for their contributions to this conference. We would like to extend our thanks to all the referees for their constructive comments on all papers; especially, we would like to thank to organizing committee for their hard working.

Achieving excellence in the fast changing global scenario of business and world economic structure demands deeper insight into the quality management practices. To survive in this competitive and challenging global business arena one needs to adopt quality management strategies that incorporate the best global practices. An attempt has been made in the present cook to focus on quality aspects and solutions that can enhance global business excellence.

This book constitutes the refereed proceedings of the 20th International TRIZ Future Conference on Automated Invention for Smart Industries, TFC 2020, held in Cluj-Napoca, Romania, in October 2020 and sponsored by IFIP WG 5.4. The conference was held virtually. The 34 full papers presented were carefully reviewed and selected from 91 submissions. They are organized in the following thematic sections: computing TRIZ; education and pedagogy; sustainable development; tools and techniques of TRIZ for enhancing design; TRIZ and system engineering; TRIZ and complexity; and cross-fertilization of TRIZ for innovation management. This book clarifies the common misconception that there are no systematic instruments to support ideation, heuristics and creativity. Using a collection of articles from professionals practicing the Theory of Inventive Problem Solving (TRIZ), this book presents an overview of current trends and enhancements within TRIZ in an international context, and shows its different roles in enhancing creativity for innovation in research and practice. Since its first introduction by Genrikh Saulovich Altshuller in 1956 in the USSR, the TRIZ method has been widely used by inventors, design engineers and has become a standard element of innovation support tools in many Fortune 500 companies. However, TRIZ has only recently entered the domain of scientific publications and discussion. This collection of articles is meant as a record of scientific discussion on TRIZ that reflects the most interesting talking points, research interests, results and expectations. Topics such as Creative and Inventive Design, Patent Mining, and Knowledge Harvesting are also covered in this book. This book highlights papers presented at the Second International Conference on Smart Vehicular Technology, Transportation, Communication and Applications (VTCA 2018), which was held at Mount Emei, Sichuan Province, China from 25 to 28 October 2018. The conference was co-sponsored by Springer, Southwest Jiaotong University, Fujian University of Technology, Chang'an University, Shandong University of Science and Technology, Fujian Provincial Key Lab of Big Data Mining and Applications, and the National Demonstration Center for Experimental Electronic Information and Electrical Technology Education (Fujian University of Technology). The conference was intended as an international forum for researchers and professionals engaged in all areas of smart vehicular technology, vehicular transportation, vehicular communication, and applications.

This book constitutes the refereed proceedings of the 19th International TRIZ Future Conference on Automated Invention for Smart Industries, held in Marrakesh, Morocco, in October 2019 and sponsored by IFIP WG 5.4. The 41 full papers presented were carefully reviewed and selected from 72 submissions. They are organized in seven thematic sections: TRIZ improvement: theory, methods and tools; TRIZ and other innovation approaches; TRIZ applications in technical design; TRIZ applications in eco design; TRIZ applications in software engineering; TRIZ applications in specific disciplinary fields; and TRIZ in teaching.

While Computer Security is a broader term which incorporates technologies, protocols, standards and policies to ensure the security of the computing systems including the computer hardware, software and the information stored in it, Cyber Security is a specific, growing field to protect computer networks (offline and online) from unauthorized access, botnets,

phishing scams, etc. Machine learning is a branch of Computer Science which enables computing machines to adopt new behaviors on the basis of observable and verifiable data and information. It can be applied to ensure the security of the computers and the information by detecting anomalies using data mining and other such techniques. This book will be an invaluable resource to understand the importance of machine learning and data mining in establishing computer and cyber security. It emphasizes important security aspects associated with computer and cyber security along with the analysis of machine learning and data mining based solutions. The book also highlights the future research domains in which these solutions can be applied. Furthermore, it caters to the needs of IT professionals, researchers, faculty members, scientists, graduate students, research scholars and software developers who seek to carry out research and develop combating solutions in the area of cyber security using machine learning based approaches. It is an extensive source of information for the readers belonging to the field of Computer Science and Engineering, and Cyber Security professionals. Key Features: This book contains examples and illustrations to demonstrate the principles, algorithms, challenges and applications of machine learning and data mining for computer and cyber security. It showcases important security aspects and current trends in the field. It provides an insight of the future research directions in the field. Contents of this book help to prepare the students for exercising better defense in terms of understanding the motivation of the attackers and how to deal with and mitigate the situation using machine learning based approaches in better manner.

As future generation information technology (FGIT) becomes specialized and fragmented, it is easy to lose sight that many topics in FGIT have common threads and, because of this, advances in one discipline may be transmitted to others. Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole. Of particular interest are hybrid solutions that combine ideas taken from multiple disciplines in order to achieve something more significant than the sum of the individual parts. Through such hybrid philosophy, a new principle can be discovered, which has the propensity to propagate throughout multifaceted disciplines. FGIT 2009 was the first mega-conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT, conducted by separate scientific committees, but coordinated in order to expose the most important contributions. It included the following international conferences: Advanced Software Engineering and Its Applications (ASEA), Bio-Science and Bio-Technology (BSBT), Control and Automation (CA), Database Theory and Application (DTA), Disaster Recovery and Business Continuity (DRBC; published independently), Future Generation Communication and Networking (FGCN) that was combined with Advanced Communication and Networking (ACN), Grid and Distributed Computing (GDC), Multimedia, Computer Graphics and Broadcasting (MulGraB), Security Technology (SecTech), Signal Processing, Image Processing and Pattern Recognition (SIP), and u- and e-Service, Science and Technology (UNESST).

The popularity of Graphical User Interface has made it indispensable not only in the field of computer but also in other consumer items like TV, mobile phone, camera etc. Although the current-day GUIs are way ahead of the GUIs of a decade ago, various aspects of a GUI still have several limitations and are going through continuous innovations. TRIZ provides various techniques like "Ideality", "Functionality", "Trends", "Contradictions", "Inventive Principles" etc. to solve the prior art problems and improve the capabilities of any product. The concept of ideality is applied to explore the ideal features of a GUI, such as, easy to develop, easy to operate, easy to navigate, better aesthetics, increased speed of operation, lesser errors and so on. Many contradictions are faced on the way to achieve the Ideality, such as, "displaying more visual elements but without expanding screen size", "scrolling the screen but without sacrificing space for the scrollbars", "customizing the GUI but without wasting user's time and effort to customize it" etc. This book cites more than 100 exemplary inventions from US Patent Database and illustrates how the contradictions in the prior art methods have been overcome by applying very simple but innovative concepts. This book is intended to be a good reference for the TRIZ researchers, GUI developers and IT inventors. If you want to buy in bulk, please email to [umakant\(at\)trizsite\(dot\)tk](mailto:umakant(at)trizsite(dot)tk) for discounts.

Whether it's because of a lack of understanding, poor planning, or a myriad of other things, 50 to 60 percent of the IT effort in most companies can be considered waste. Explaining how to introduce Lean principles to your IT functions to reduce and even eliminate this waste, Lean Management Principles for Information Technology provides t

This volume constitutes the refereed proceedings of the Third IFIP WG 5.4. Working Conference on Computer Aided Innovation, CAI 2009, held in Harbin, China, in August 2009. The papers deal with advanced approaches in education and training; data mining; text mining; semantic Web; optimization and innovation, shape and topology generators; design automation; integration of CAI methods and tools into engineering; innovation process and engineering information pipeline; innovation in collaborative networks of enterprises; professional virtual communities as well as engineering design.

This is the second edition of the successful and practical introduction to TRIZ (Theory of Innovative Problem Solving) - a strategy and method for breaking out of rigid thought patterns to achieve truly creative engineering solutions. This book continues the theme of algorithmic development and shows how to put TRIZ into action. It will be of use to development engineers and planners in modern technology, enabling readers to search for and find solutions efficiently.

Society forges ahead in the process of solving various contradictory problems and it is ceaselessly innovating. It is the desire of mankind to use computers and computing networks to help deal with contradictory problems and to conduct innovative activities. Using formal models to discuss object extension and the possibility of change, as well as the rules and methods for innovation, Extenics is applied to solving contradictory problems and has become the basic theory, method and instrument to achieve this goal. In the 30 years since the foundation of Extenics, researchers have built relatively complete theoretical systems —'extension theory', studied formal and modeling innovation methods —'extension innovation methods', and launched the applications in various fields such as information, design, automation and management etc. —'extension engineering'. Extension theory, the extension innovation method and extension engineering jointly constitute the new discipline—Extenics. At the same time, the practical activities of engineering technology and management promote the integration of various innovation methods such as TRIZ and brainstorming etc. This book collects together, from scholars in various fields, the research

achievements in Extenics and innovation methods, in order to facilitate and promote the development of Extenics and the various innovation theories and methods, as well as to improve its innovative capacity in academic and business circles.

Genrich Altshuller's The Innovation Algorithm is a milestone in the development of the Theory of Inventive Problem Solving (TRIZ). It is the result of more than 20 years of research and analysis. Here, Altshuller details ARIZ, TRIZ's problem solving algorithm that can produce innovation and creativity of the highest order. Saturated with profound thoughts, insights, and convincing examples, this book is regarded by many as Altshuller's magnum opus, his handbook for a creative and technological revolution. - Back cover.

The work presented here is generally intended for engineers, educators at all levels, industrialists, managers, researchers and political representatives. Offering a snapshot of various types of research conducted within the field of TRIZ in France, it represents a unique resource. It has been two decades since the TRIZ theory originating in Russia spread across the world. Every continent adopted it in a different manner – sometimes by glorifying its potential and its perspectives (the American way); sometimes by viewing it with mistrust and suspicion (the European way); and sometimes by adopting it as-is, without questioning it further (the Asian way). However, none of these models of adoption truly succeeded. Today, an assessment of TRIZ practices in education, industry and research is necessary. TRIZ has expanded to many different scientific disciplines and has allowed young researchers to reexamine the state of research in their field. To this end, a call was sent out to all known francophone research laboratories producing regular research about TRIZ. Eleven of them agreed to send one or more of their postdoctoral researchers to present their work during a seminar, regardless of the maturity or completeness of their efforts. It was followed by this book project, presenting one chapter for every current thesis in order to reveal the breadth, the richness and the perspectives that research about the TRIZ theory could offer our society. The topics dealt with e.g. the development of new methods inspired by TRIZ, educational practices, and measuring team impact.

This book focuses on the creative tools and techniques, decisions, activities, and practices that move ideas to realization generate business value. It has a unique leaning on learning and mastering the improvement tools for managing the investment in creating new opportunities for generating customer value. It includes the discipline of managing the creative tools, methods and processes involved in innovation. It can be used to develop both product and organizational innovation. This Handbook includes a set of tools that allow managers and engineers to cooperate with a common understanding of goals and processes.

TRIZ Principles for Information Technology Umakanta Mishra Systematic (software) Innovation Machine Learning for Computer and Cyber Security Principle, Algorithms, and Practices CRC Press

People like to have their own business, but few succeed. In this book, we show you what the process and procedures are to start-up your own business. Around 100 real cases featuring SMEs in Asia are introduced to show how businesses are run in the real world. From these practice cases, we can find rules to make a business sustainable. After reading this book, you will be able to find out what your advantages and disadvantages are, especially if you are keen to start a business in Asia. This book might even help you decide whether it is time for you to start-up your own business or not.

Service industries have traditionally lagged manufacturing in adoption of quality management strategies and Six Sigma is no exception. While there are a growing number of books on applying the hot topics of Six Sigma and Lean Manufacturing concepts in a manufacturing environment, there has not been a mainstream book that applies these techniques in a service environment, until now. Transactional Six Sigma and Lean Servicing™: Leveraging Manufacturing Concepts to Achieve World Class Service is a ground breaking "how-to" book that serves as a practical guide for implementing Six Sigma and Lean Manufacturing methods in a transactional service oriented environment. It uses real case studies and examples to show how Six Sigma and Lean Servicing™ techniques have been implemented and proven effective in achieving substantial documented results. Lean Servicing™ is the author's own term used to describe the application of Lean Manufacturing concepts to transactional and service processes. Liberal use of examples, graphics, and tables will assist you in grasping the difficult concepts. Transactional Six Sigma and Lean Servicing™ covers both theory and practical application of Lean Servicing™, Six Sigma DMAIC and Six Sigma DFSS concepts and methods so you can implement them effectively in your service organization and achieve reduced costs and a new level of service excellence.

Presenting innovative research methods, this second edition of a bestseller describes a simple and practical methodology for conducting cutting-edge design science research (DSR). It provides comprehensive guidance on how to conduct such research and supplies in-depth treatment of design science theory and the different types of theory that can be generated in design science research. Making novel use of the concept of patterns, it presents 84 research patterns for conducting effective DSR. It emphasizes design science theory throughout and is filled with practical examples of using patterns to conduct information and communication technology research (ICT). With a focus on reusing research activities to increase the effectiveness and efficiency of conducting design science research, the book relies on familiar patterns to provide the fundamentals of various research philosophies and techniques required to innovate ICT. It describes design science research in relation to other information systems research paradigms such as positivist and interpretivist research. New to this edition are relevant design science research patterns adapted from TRIZ, the widely regarded European engineering design and creativity method. This edition also provides greatly expanded treatment of theory building in design science research (DSR), a topic of rapidly growing interest in addition to a new chapter presenting a framework for theory development in DSR. The book provides an expanded examination of patterns in DSR presented using a new pattern classification mechanism to group patterns with like functionality. This book will be of value to those interested in learning to conduct design science research, particularly in the ICT disciplines the book focuses on.

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, Sellafeld 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. The four-volume set LNAI 6881-LNAI 6884 constitutes the refereed proceedings of the 15th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2011, held in Kaiserslautern, Germany, in September 2011. Part 4: The total of 244 high-quality papers presented were carefully reviewed and selected from numerous submissions. The 46 papers of Part 4 are organized in topical sections on human activity support in knowledge society, knowledge-based interface systems, model-based computing for innovative

engineering, document analysis and knowledge science, immunity-based systems, natural language visualisation advances in theory and application of hybrid intelligent systems.

This book describes a revolutionary methodology for enhancing technological innovation called TRIZ. The TRIZ methodology is increasingly being adopted by leading corporations around the world to enhance their competitive position. The authors explain how the TRIZ methodology harnesses creative principles extracted from thousands of successful patented inventions to help you find better, more innovative, solutions to your own design problems. Whether you're trying to make a better beer can, find a new way to package microchips or reduce the number of parts in a lawnmower engine, this book can help.

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