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This two-volume set (CCIS 1045 and CCIS 1046) constitutes the refereed proceedings of the Third International Conference on Advances in Computing and Data Sciences, ICACDS 2019, held in Ghaziabad, India, in April 2019. The 112 full papers were carefully reviewed and selected from 621 submissions. The papers are centered around topics like advanced computing, data sciences, distributed systems organizing principles, development frameworks and environments, software verification and validation, computational complexity and cryptography, machine learning theory, database theory, probabilistic representations.

This book brings together the latest research in this new and exciting area of visualization, looking at classifying and modelling cognitive biases, together with user studies which reveal their undesirable impact on human judgement, and demonstrating how visual analytic techniques can provide effective support for mitigating key biases. A comprehensive coverage of this very relevant topic is provided through this collection of extended papers from the successful DECISIVE workshop at IEEE VIS, together with an introduction to cognitive biases and an invited chapter from a leading expert in intelligence analysis. Cognitive Biases in Visualizations will be of interest to a wide audience from those studying cognitive biases to visualization designers and practitioners. It offers a choice of research frameworks, help with the design of user studies, and

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proposals for the effective measurement of biases. The impact of human visualization literacy, competence and human cognition on cognitive biases are also examined, as well as the notion of system-induced biases. The well referenced chapters provide an excellent starting point for gaining an awareness of the detrimental effect that some cognitive biases can have on users' decision-making. Human behavior is complex and we are only just starting to unravel the processes involved and investigate ways in which the computer can assist, however the final section supports the prospect that visual analytics, in particular, can counter some of the more common cognitive errors, which have been proven to be so costly.

With all the material available in the field of artificial intelligence (AI) and soft computing-texts, monographs, and journal articles-there remains a serious gap in the literature. Until now, there has been no comprehensive resource accessible to a broad audience yet containing a depth and breadth of information that enables the reader to fully understand and readily apply AI and soft computing concepts. *Artificial Intelligence and Soft Computing* fills this gap. It presents both the traditional and the modern aspects of AI and soft computing in a clear, insightful, and highly comprehensive style. It provides an in-depth analysis of mathematical models and algorithms and demonstrates their applications in real world problems. Beginning with the behavioral perspective of "human cognition," the text covers the tools and techniques required for its intelligent realization on machines. The author addresses the classical

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aspects-search, symbolic logic, planning, and machine learning-in detail and includes the latest research in these areas. He introduces the modern aspects of soft computing from first principles and discusses them in a manner that enables a beginner to grasp the subject. He also covers a number of other leading aspects of AI research, including nonmonotonic and spatio-temporal reasoning, knowledge acquisition, and much more.

Artificial Intelligence and Soft Computing: Behavioral and Cognitive Modeling of the Human Brain is unique for its diverse content, clear presentation, and overall completeness. It provides a practical, detailed introduction that will prove valuable to computer science practitioners and students as well as to researchers migrating to the subject from other disciplines.

This book explores several problems and their solutions regarding data analysis and prediction for industrial applications. Machine learning is a prominent topic in modern industries: its influence can be felt in many aspects of everyday life, as the world rapidly embraces big data and data analytics. Accordingly, there is a pressing need for novel and innovative algorithms to help us find effective solutions in industrial application areas such as media, healthcare, travel, finance, and retail. In all of these areas, data is the crucial parameter, and the main key to unlocking the value of industry. The book presents a range of intelligent algorithms that can be used to filter useful information in the above-mentioned application areas and efficiently solve particular problems. Its main objective is to raise awareness for this important field among students, researchers, and

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industrial practitioners.

Evolvable hardware (EHW) refers to hardware whose architecture/structure and functions change dynamically and autonomously in order to improve its performance in carrying out tasks. The only single resource presenting both the fundamentals, and the latest advances in the field, this book teaches the basics of reconfigurable devices, why they are necessary and how they are designed.

Parallel robots are closed-loop mechanisms presenting very good performances in terms of accuracy, velocity, rigidity and ability to manipulate large loads. They have been used in a large number of applications ranging from astronomy to flight simulators and are becoming increasingly popular in the field of machine-tool industry. This book presents a complete synthesis of the latest results on the possible mechanical architectures, analysis and synthesis of this type of mechanism. It is intended to be used by students (with over 150 exercises and numerous internet addresses), researchers (with over 650 references and anonymous ftp access to the code of some algorithms presented in this book) and engineers (for which practical results, mistakes to avoid, and applications are presented). Since the publication of the first edition (2000) there has been an impressive increase in terms of study and use of this kind of structure that are reported in this book. This second edition has been completely overhauled. The initial chapter on kinematics has been split into Inverse Kinematics and Direct Kinematics. A new chapter on calibration was added. The other chapters have also

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been rewritten to a large extent. The reference section has been updated to include around 45% new works that appeared after the first edition.

In the late 1970s and early 1980s, our nation began to grapple with the legacy of past disposal practices for toxic chemicals. With the passage in 1980 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), commonly known as Superfund, it became the law of the land to remediate these sites. The U. S. Department of Defense (DoD), the nation's largest industrial organization, also recognized that it too had a legacy of contaminated sites. Historic operations at Army, Navy, Air Force, and Marine Corps facilities, ranges, manufacturing sites, shipyards, and depots had resulted in widespread contamination of soil, groundwater, and sediment. While Superfund began in 1980 to focus on remediation of heavily contaminated sites largely abandoned or neglected by the private sector, the DoD had already initiated its Installation Restoration Program in the mid 1970s. In 1984, the DoD began the Defense Environmental Restoration Program (DERP) for contaminated site assessment and remediation. Two years later, the U. S. Congress codified the DERP and directed the Secretary of Defense to carry out a concurrent program of research, development, and demonstration of innovative remediation technologies. As chronicled in the 1994 National Research Council report, "Ranking Hazardous-Waste Sites for Remedial Action", our early estimates on the cost and suitability of existing technologies for cleaning up contaminated sites were wildly optimistic.

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Original estimates, in 1980, projected an average Superfund cleanup cost of a mere \$3.

This study looks at how the rapid adoption of digital technologies could help developing countries increase their participation in world trade. It also reviews the role that domestic policies and international cooperation can play in creating a more prosperous and inclusive future for these countries. This publication marks the conclusion of the second phase of the WTO Chairs Programme (WCP), which aims to support and promote trade-related academic activities by universities and research institutions in developing and least-developed countries. The book brings together contributions from WCP chairholders, Advisory Board members, the WCP team at the WTO and other WTO Secretariat staff. The WCP is an important part of the WTO's efforts to build trade capacity and to work jointly with academic institutions in developing countries. Academic institutions awarded WTO Chairs receive support in the areas of curriculum development, research and outreach activities. The chairholders are selected through a competitive process. Fourteen institutions were originally selected as WTO Chairs for a four-year term in 2009. Seven institutions were added to the Programme in 2014. This publication consists of two volumes. The first volume, Overview and One-Page Case Summaries, contains a one-page summary for each identified GATT dispute, recording all relevant steps and documents, and indexes the information by relevant parties, agreements and provisions. The second volume, Dispute Settlement Procedures compiles for the first time all GATT dispute

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settlement procedures, as well as a selection of other key documents of historical interest.

The introduction of the microprocessor in computer and system engineering has motivated the development of many new concepts and has simplified the design of many modern industrial systems. During the first decade of their life. microprocessors have shown a tremendous evolution in all possible directions (technology. power. functionality. I/O handling. etc). Of course putting the microprocessors and their environmental devices into properly operating systems is a complex and difficult task requiring high skills for melding and integrating hardware. and systemic components. software This book was motivated by the editors' feeling that a cohesive reference is needed providing a good coverage of modern industrial applications of microprocessor-based real time control, together with latest advanced methodological issues. Unavoidably a single volume cannot be exhaustive. but the present book contains a sufficient number of important real-time applications. The book is divided in two sections. Section I deals with general hardware. software and systemic topics. and involves six chapters. Chapter 1. by Gupta and Toong. presents an overview of the development of microprocessors during their first twelve years of existence. Chapter 2. by Dasgupta. deals with a number of system software concepts for real time microprocessor-based systems (task scheduling. memory management. input-output aspects. programming language requirements.

Named a Best Book of 2020 by NPR and Vanity Fair

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One of Smithsonian's Ten Best Science Books of 2020

“A searching and vital explication of germ theory, social norms, and what the modern era is really doing to our bodies and our psyches.” —Vanity Fair A preventative medicine physician and staff writer for The Atlantic explains the surprising and unintended effects of our hygiene practices in this informative and entertaining introduction to the new science of skin microbes and probiotics. Keeping skin healthy is a booming industry, and yet it seems like almost no one agrees on what actually works. Confusing messages from health authorities and ineffective treatments have left many people desperate for reliable solutions. An enormous alternative industry is filling the void, selling products that are often of questionable safety and totally unknown effectiveness. In *Clean*, doctor and journalist James Hamblin explores how we got here, examining the science and culture of how we care for our skin today. He talks to dermatologists, microbiologists, allergists, immunologists, aestheticians, bar-soap enthusiasts, venture capitalists, Amish people, theologians, and straight-up scam artists, trying to figure out what it really means to be clean. He even experiments with giving up showers entirely, and discovers that he is not alone. Along the way, he realizes that most of our standards of cleanliness are less related to health than most people think. A major part of the picture has been missing: a little-known ecosystem known as the skin microbiome—the trillions of microbes that live on our skin and in our pores. These microbes are not dangerous; they're more like an outer layer of skin that no one knew

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we had, and they influence everything from acne, eczema, and dry skin, to how we smell. The new goal of skin care will be to cultivate a healthy biome—and to embrace the meaning of “clean” in the natural sense. This can mean doing much less, saving time, money, energy, water, and plastic bottles in the process. Lucid, accessible, and deeply researched, *Clean* explores the ongoing, radical change in the way we think about our skin, introducing readers to the emerging science that will be at the forefront of health and wellness conversations in coming years.

This book addresses the broad multi-disciplinary topic of robotics, and presents the basic techniques for motion and operation planning in robotics systems. Gathering contributions from experts in diverse and wide ranging fields, it offers an overview of the most recent and cutting-edge practical applications of these methodologies. It covers both theoretical and practical approaches, and elucidates the transition from theory to implementation. An extensive analysis is provided, including humanoids, manipulators, aerial robots and ground mobile robots. ‘*Motion and Operation Planning of Robotic Systems*’ addresses the following topics: *The theoretical background of robotics. *Application of motion planning techniques to manipulators, such as serial and parallel manipulators. *Mobile robots planning, including robotic applications related to aerial robots, large scale robots and traditional wheeled robots. *Motion planning for humanoid robots. An invaluable reference text for graduate students and researchers in robotics, this book is also intended for researchers studying robotics control

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design, user interfaces, modelling, simulation, sensors, humanoid robotics.

Computational Intelligence Assisted Design framework mobilises computational resources, makes use of multiple Computational Intelligence (CI) algorithms and reduces computational costs. This book provides examples of real-world applications of technology. Case studies have been used to show the integration of services, cloud, big data technology and space missions. It focuses on computational modelling of biological and natural intelligent systems, encompassing swarm intelligence, fuzzy systems, artificial neural networks, artificial immune systems and evolutionary computation. This book provides readers with wide-scale information on CI paradigms and algorithms, inviting readers to implement and problem solve real-world, complex problems within the CI development framework. This implementation framework will enable readers to tackle new problems without difficulty through a few tested MATLAB source codes

Advances in Reconfigurable Mechanisms and Robots I provides a selection of key papers presented in The Second ASME/IFTOMM International Conference on Reconfigurable Mechanisms and Robots (ReMAR 2012) held on 9th -11th July 2012 in Tianjin, China. This ongoing series of conferences will be covered in this ongoing collection of books. A total of seventy-eight papers are divided into seven parts to cover the topology, kinematics and design of reconfigurable mechanisms with the reconfiguration theory, analysis and synthesis, and present the current research and

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development in the field of reconfigurable mechanisms including reconfigurable parallel mechanisms. In this aspect, the recent study and development of reconfigurable robots are further presented with the analysis and design and with their control and development. The bio-inspired mechanisms and subsequent reconfiguration are explored in the challenging fields of rehabilitation and minimally invasive surgery. Advances in Reconfigurable Mechanisms and Robots I further extends the study to deployable mechanisms and foldable devices and introduces applications of reconfigurable mechanisms and robots. The rich-content of Advances in Reconfigurable Mechanisms and Robots I brings together new developments in reconfigurable mechanisms and robots and presents a new horizon for future development in the field of reconfigurable mechanisms and robots. The first biography of the epic life of one of the most important, enigmatic and private artists of the 20th century. Drawn from almost 40 years of conversations with the artist, letters and papers, it is a major work written by a well-known British art critic. Lucian Freud (1922-2011) is one of the most influential figurative painters of the 20th century. His paintings are in every major museum and many private collections here and abroad. William Feaver's daily calls from 1973 until Freud died in 2011, as well as interviews with family and friends were crucial sources for this book. Freud had ferocious energy, worked day and night but his circle was broad including not just other well-known artists but writers, bluebloods, royals in England and Europe, drag

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queens, fashion models gamblers, bookies and gangsters like the Kray twins. Fierce, rebellious, charismatic, extremely guarded about his life, he was witty, mischievous and a womanizer. This brilliantly researched book begins with the Freuds' life in Berlin, the rise of Hitler and the family's escape to London in 1933 when Lucian was 10. Sigmund Freud was his grandfather and Ernst, his father was an architect. In London in his twenties, his first solo show was in 1944 at the Lefevre Gallery. Around this time, Stephen Spender introduced him to Virginia Woolf; at night he was taking Pauline Tennant to the Gargoyle Club, owned by her father and frequented by Dylan Thomas; he was also meeting Sonia Orwell, Cecil Beaton, Auden, Patrick Leigh-Fermor and the Aly Khan, and his muse was a married femme fatale, 13 years older, Lorna Wishart. But it was Francis Bacon who would become his most important influence and the painters Frank Auerbach and David Hockney, close friends. This is an extremely intimate, lively and rich portrait of the artist, full of gossip and stories recounted by Freud to Feaver about people, encounters, and work. Freud's art was his life—"my work is purely autobiographical"—and he usually painted only family, friends, lovers, children, though there were exceptions like the famous small portrait of the Queen. With his later portraits, the subjects were often nude, names were never given and sittings could take up to 16 months, each session lasting five hours but subjects were rarely bored as Freud was a great raconteur and mimic. This book is a major achievement, a tour de force that reveals the details of the life and innermost thoughts

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of the greatest portrait painter of our time. Volume I has 41 black and white integrated images, and 2 eight-page color inserts.

Though mathematical ideas underpin the study of neural networks, the author presents the fundamentals without the full mathematical apparatus. All aspects of the field are tackled, including artificial neurons as models of their real counterparts; the geometry of network action in pattern space; gradient descent methods, including back-propagation; associative memory and Hopfield nets; and self-organization and feature maps. The traditionally difficult topic of adaptive resonance theory is clarified within a hierarchical description of its operation. The book also includes several real-world examples to provide a concrete focus. This should enhance its appeal to those involved in the design, construction and management of networks in commercial environments and who wish to improve their understanding of network simulator packages. As a comprehensive and highly accessible introduction to one of the most important topics in cognitive and computer science, this volume should interest a wide range of readers, both students and professionals, in cognitive science, psychology, computer science and electrical engineering.

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

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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.

Future communication networks aim to build an intelligent and efficient living environment by connecting a variety of heterogeneous networks to fulfill complicated tasks. These communication networks bring significant challenges in building secure and reliable communication networks to address the numerous threat and privacy concerns. New research technologies are essential to preserve privacy, prevent attacks, and achieve the requisite reliability. Security, Privacy and Reliability in Computer Communications and Networks studies and presents recent advances reflecting the state-of-the-art research achievements in novel cryptographic algorithm design, intrusion detection, privacy preserving techniques and reliable routing protocols. Technical topics discussed in the book include: Vulnerabilities and Intrusion Detection Cryptographic Algorithms and Evaluation Privacy Reliable Routing Protocols This book is ideal for personnel in computer communication and networking industries as well as academic staff and collegial, master, Ph.D. students in computer science, computer engineering, cyber security, information insurance and

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telecommunication systems.

The changing manufacturing environment requires more responsive and adaptable manufacturing systems. The theme of the 4th International Conference on Changeable, Agile, Reconfigurable and Virtual production (CARV2011) is “Enabling Manufacturing Competitiveness and Economic Sustainability”. Leading edge research and best implementation practices and experiences, which address these important issues and challenges, are presented. The proceedings include advances in manufacturing systems design, planning, evaluation, control and evolving paradigms such as mass customization, personalization, changeability, re-configurability and flexibility. New and important concepts such as the dynamic product families and platforms, co-evolution of products and systems, and methods for enhancing manufacturing systems’ economic sustainability and prolonging their life to produce more than one product generation are treated. Enablers of change in manufacturing systems, production volume and capability scalability and managing the volatility of markets, competition among global enterprises and the increasing complexity of products, manufacturing systems and management strategies are discussed. Industry challenges and future directions for research and development needed to help both practitioners and academicians are presented.

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This volume focuses on protein analysis, including a wide range of the use of mass spectrometry and other protein methods within neurobiological disciplines. Chapters cover topics such as cerebrospinal fluid (CSF) processing and biobanking; label-free quantitative proteomics; SWATH; top-down proteomics; and experimental strategies based on other –omics applied to CSF metabolome, lipidome, and microRNAome. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and thorough, *Cerebrospinal Fluid (CSF) Proteomics: Methods and Protocols* is a valuable resource for graduate students and post-doctoral fellows interested in learning more about CSF proteotyping. It is also useful to established researchers seeking further insight into this growing field.

Bringing together the world's leading researchers and practitioners of computational mechanics, these new volumes meet and build on the eight key challenges for research and development in computational mechanics. Researchers have recently identified eight critical research tasks facing the field of computational mechanics. These tasks

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have come about because it appears possible to reach a new level of mathematical modelling and numerical solution that will lead to a much deeper understanding of nature and to great improvements in engineering design. The eight tasks are: The automatic solution of mathematical models Effective numerical schemes for fluid flows The development of an effective mesh-free numerical solution method The development of numerical procedures for multiphysics problems The development of numerical procedures for multiscale problems The modelling of uncertainties The analysis of complete life cycles of systems Education - teaching sound engineering and scientific judgement Readers of Computational Fluid and Solid Mechanics 2003 will be able to apply the combined experience of many of the world's leading researchers to their own research needs. Those in academic environments will gain a better insight into the needs and constraints of the industries they are involved with; those in industry will gain a competitive advantage by gaining insight into the cutting edge research being carried out by colleagues in academia. Features Bridges the gap between academic researchers and practitioners in industry Outlines the eight main challenges facing Research and Design in Computational mechanics and offers new insights into the shifting the research agenda Provides a vision of how strong, basic and exciting education at university can be harmonized

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with life-long learning to obtain maximum value from the new powerful tools of analysis

Evolutionary Algorithms (EAs) are population-based, stochastic search algorithms that mimic natural evolution. Due to their ability to find excellent solutions for conventionally hard and dynamic problems within acceptable time, EAs have attracted interest from many researchers and practitioners in recent years. This book “Variants of Evolutionary Algorithms for Real-World Applications” aims to promote the practitioner’s view on EAs by providing a comprehensive discussion of how EAs can be adapted to the requirements of various applications in the real-world domains. It comprises 14 chapters, including an introductory chapter re-visiting the fundamental question of what an EA is and other chapters addressing a range of real-world problems such as production process planning, inventory system and supply chain network optimisation, task-based jobs assignment, planning for CNC-based work piece construction, mechanical/ship design tasks that involve runtime-intense simulations, data mining for the prediction of soil properties, automated tissue classification for MRI images, and database query optimisation, among others. These chapters demonstrate how different types of problems can be successfully solved using variants of EAs and how the solution approaches are constructed, in a way that can be understood and

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reproduced with little prior knowledge on optimisation.

Computer science and economics have engaged in a lively interaction over the past fifteen years, resulting in the new field of algorithmic game theory. Many problems that are central to modern computer science, ranging from resource allocation in large networks to online advertising, involve interactions between multiple self-interested parties. Economics and game theory offer a host of useful models and definitions to reason about such problems. The flow of ideas also travels in the other direction, and concepts from computer science are increasingly important in economics. This book grew out of the author's Stanford University course on algorithmic game theory, and aims to give students and other newcomers a quick and accessible introduction to many of the most important concepts in the field. The book also includes case studies on online advertising, wireless spectrum auctions, kidney exchange, and network management.

This book considers large and challenging multistage decision problems, which can be solved in principle by dynamic programming (DP), but their exact solution is computationally intractable. We discuss solution methods that rely on approximations to produce suboptimal policies with adequate performance. These methods are collectively known by several essentially equivalent names:

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reinforcement learning, approximate dynamic programming, neuro-dynamic programming. They have been at the forefront of research for the last 25 years, and they underlie, among others, the recent impressive successes of self-learning in the context of games such as chess and Go. Our subject has benefited greatly from the interplay of ideas from optimal control and from artificial intelligence, as it relates to reinforcement learning and simulation-based neural network methods. One of the aims of the book is to explore the common boundary between these two fields and to form a bridge that is accessible by workers with background in either field. Another aim is to organize coherently the broad mosaic of methods that have proved successful in practice while having a solid theoretical and/or logical foundation. This may help researchers and practitioners to find their way through the maze of competing ideas that constitute the current state of the art. This book relates to several of our other books: *Neuro-Dynamic Programming* (Athena Scientific, 1996), *Dynamic Programming and Optimal Control* (4th edition, Athena Scientific, 2017), *Abstract Dynamic Programming* (2nd edition, Athena Scientific, 2018), and *Nonlinear Programming* (Athena Scientific, 2016). However, the mathematical style of this book is somewhat different. While we provide a rigorous, albeit short, mathematical account of the theory of finite and

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infinite horizon dynamic programming, and some fundamental approximation methods, we rely more on intuitive explanations and less on proof-based insights. Moreover, our mathematical requirements are quite modest: calculus, a minimal use of matrix-vector algebra, and elementary probability (mathematically complicated arguments involving laws of large numbers and stochastic convergence are bypassed in favor of intuitive explanations). The book illustrates the methodology with many examples and illustrations, and uses a gradual expository approach, which proceeds along four directions: (a) From exact DP to approximate DP: We first discuss exact DP algorithms, explain why they may be difficult to implement, and then use them as the basis for approximations. (b) From finite horizon to infinite horizon problems: We first discuss finite horizon exact and approximate DP methodologies, which are intuitive and mathematically simple, and then progress to infinite horizon problems. (c) From deterministic to stochastic models: We often discuss separately deterministic and stochastic problems, since deterministic problems are simpler and offer special advantages for some of our methods. (d) From model-based to model-free implementations: We first discuss model-based implementations, and then we identify schemes that can be appropriately modified to work with a simulator. The book is related and

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supplemented by the companion research monograph Rollout, Policy Iteration, and Distributed Reinforcement Learning (Athena Scientific, 2020), which focuses more closely on several topics related to rollout, approximate policy iteration, multiagent problems, discrete and Bayesian optimization, and distributed computation, which are either discussed in less detail or not covered at all in the present book. The author's website contains class notes, and a series of videolectures and slides from a 2021 course at ASU, which address a selection of topics from both books.

Technology and globalization are threatening manufacturing's traditional ability to deliver both productivity and jobs at a large scale for unskilled workers. Concerns about widening inequality within and across countries are raising questions about whether interventions are needed and how effective they could be. *Trouble in the Making? The Future of Manufacturing-Led Development* addresses three questions: - How has the global manufacturing landscape changed and why does this matter for development opportunities? - How are emerging trends in technology and globalization likely to shape the feasibility and desirability of manufacturing-led development in the future? - If low wages are going to be less important in defining competitiveness, how can less industrialized countries make the most of new opportunities that shifting technologies and

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globalization patterns may bring? The book examines the impacts of new technologies (i.e., the Internet of Things, 3-D printing, and advanced robotics), rising international competition, and increased servicification on manufacturing productivity and employment. The aim is to inform policy choices for countries currently producing and for those seeking to enter new manufacturing markets. Increased polarization is a risk, but the book analyzes ways to go beyond focusing on potential disruptions to position workers, firms, and locations for new opportunities.

www.worldbank.org/futureofmanufacturing

From the #1 bestselling author of *The Bomber Mafia*, the landmark book that has revolutionized the way we understand leadership and decision making. In his breakthrough bestseller *The Tipping Point*, Malcolm Gladwell redefined how we understand the world around us. Now, in *Blink*, he revolutionizes the way we understand the world within. *Blink* is a book about how we think without thinking, about choices that seem to be made in an instant--in the blink of an eye--that actually aren't as simple as they seem. Why are some people brilliant decision makers, while others are consistently inept? Why do some people follow their instincts and win, while others end up stumbling into error? How do our brains really work--in the office, in the classroom, in the kitchen, and in the bedroom? And why are the best decisions often those that are impossible to explain to others? In *Blink* we meet the psychologist who has learned to predict whether a marriage will last, based on a few minutes of observing a couple; the tennis coach who knows when a player will

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double-fault before the racket even makes contact with the ball; the antiquities experts who recognize a fake at a glance. Here, too, are great failures of "blink": the election of Warren Harding; "New Coke"; and the shooting of Amadou Diallo by police. Blink reveals that great decision makers aren't those who process the most information or spend the most time deliberating, but those who have perfected the art of "thin-slicing"--filtering the very few factors that matter from an overwhelming number of variables.

This volume presents the latest collection of immunophenotypic techniques and applications used in research and clinical settings. Chapters in this book cover topics such as constructions of high dimensions fluorescence and mass cytometry panels; fluorescence barcoding; using dried or lyophilized reagents; and immunophenotypic examples of specific cell types. The book concludes with a discussion on the critical roles of quality control and immunophenotyping in the clinical environment. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and comprehensive, Immunophenotyping: Methods and Protocols is a valuable resource for any researchers, clinician, or scientist interested in learning more about this evolving field. Software -- Programming Languages.

The text covers important algorithm design techniques, such as greedy algorithms, dynamic programming, and divide-and-conquer, and gives applications to contemporary problems. Techniques including Fast Fourier transform, KMP algorithm for string matching, CYK algorithm for context free parsing and gradient descent for convex function minimization are discussed in detail. The book's emphasis is on computational

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models and their effect on algorithm design. It gives insights into algorithm design techniques in parallel, streaming and memory hierarchy computational models. The book also emphasizes the role of randomization in algorithm design, and gives numerous applications ranging from data-structures such as skip-lists to dimensionality reduction methods.

This book has been written with the intention to fill two big gaps in the reliability and risk literature: the risk-based reliability analysis as a powerful alternative to the traditional reliability analysis and the generic principles for reducing technical risk. An important theme in the book is the generic principles and techniques for reducing technical risk. These have been classified into three major categories: preventive (reducing the likelihood of failure), protective (reducing the consequences from failure) and dual (reducing both, the likelihood and the consequences from failure). Many of these principles (for example: avoiding clustering of events, deliberately introducing weak links, reducing sensitivity, introducing changes with opposite sign, etc.) are discussed in the reliability literature for the first time. Significant space has been allocated to component reliability. In the last chapter of the book, several applications are discussed of a powerful equation which constitutes the core of a new theory of locally initiated component failure by flaws whose number is a random variable. Offers a shift in the existing paradigm for conducting reliability analyses Covers risk-based reliability analysis and generic principles for reducing risk Provides a new measure of risk based on the distribution of the potential losses from failure as well as the basic principles for risk-based design Incorporates fast algorithms for system reliability analysis and discrete-event simulators Includes the probability of failure of a structure with complex shape expressed with a simple equation

This textbook is a second edition of Evolutionary Algorithms

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for Solving Multi-Objective Problems, significantly expanded and adapted for the classroom. The various features of multi-objective evolutionary algorithms are presented here in an innovative and student-friendly fashion, incorporating state-of-the-art research. The book disseminates the application of evolutionary algorithm techniques to a variety of practical problems. It contains exhaustive appendices, index and bibliography and links to a complete set of teaching tutorials, exercises and solutions.

Reviews the use of factor graphs for the modeling and solving of large-scale inference problems in robotics. Factor graphs are introduced as an economical representation within which to formulate the different inference problems, setting the stage for the subsequent sections on practical methods to solve them.

Deep reinforcement learning (DRL) is the combination of reinforcement learning (RL) and deep learning. It has been able to solve a wide range of complex decision-making tasks that were previously out of reach for a machine, and famously contributed to the success of AlphaGo. Furthermore, it opens up numerous new applications in domains such as healthcare, robotics, smart grids and finance. Divided into three main parts, this book provides a comprehensive and self-contained introduction to DRL. The first part introduces the foundations of deep learning, reinforcement learning (RL) and widely used deep RL methods and discusses their implementation. The second part covers selected DRL research topics, which are useful for those wanting to specialize in DRL research. To help readers gain a deep understanding of DRL and quickly apply the techniques in practice, the third part presents mass applications, such as the intelligent transportation system and learning to run, with detailed explanations. The book is intended for computer science students, both undergraduate and postgraduate, who

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would like to learn DRL from scratch, practice its implementation, and explore the research topics. It also appeals to engineers and practitioners who do not have strong machine learning background, but want to quickly understand how DRL works and use the techniques in their applications.

This comprehensive, detailed reference provides readers with both a working knowledge of Mathematica in general and a detailed knowledge of the key aspects needed to create the fastest, shortest, and most elegant implementations possible. It gives users a deeper understanding of Mathematica by instructive implementations, explanations, and examples from a range of disciplines at varying levels of complexity. The three volumes -- Programming, Graphics, and Mathematics, total 3,000 pages and contain more than 15,000 Mathematica inputs, over 1,500 graphics, 4,000+ references, and more than 500 exercises. This first volume begins with the structure of Mathematica expressions, the syntax of Mathematica, its programming, graphic, numeric and symbolic capabilities. It then covers the hierarchical construction of objects out of symbolic expressions, the definition of functions, the recognition of patterns and their efficient application, program flows and program structuring, and the manipulation of lists. An indispensable resource for students, researchers and professionals in mathematics, the sciences, and engineering.

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Human capital analytics, also known as human resources analytics or talent analytics, is the application of sophisticated data mining and business analytics techniques to human resources data. Human Capital Analytics provides an in-depth look at the science of human capital analytics, giving practical examples from case studies of companies applying analytics to their people decisions and providing a framework for using predictive analytics to optimize human capital investments.

Manual of Temporomandibular Disorders is a four-color, softcover handbook of information on temporomandibular disorders, an array of medical and dental conditions that affect the temporomandibular joint (TMJ), masticatory muscles, and contiguous structures. The book will provide evidence-based, clinically practical information that allows dentists to diagnose TMD accurately, rule out disorders that mimic TMD (that is, make a differential diagnosis), and provide effective therapy for most patients. This title offers comprehensive coverage in a compact package. The book's tone is conversational, with a focus on solving TMD problems at chairside. The author's crisp, engaging writing style allows the clinician to find precise answers quickly, without wading through a morass of detail.

The two-volume set of LNCS 11655 and 11656 constitutes the proceedings of the 10th International

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Conference on Advances in Swarm Intelligence, ICSI 2019, held in Chiang Mai, Thailand, in June 2019. The total of 82 papers presented in these volumes was carefully reviewed and selected from 179 submissions. The papers were organized in topical sections as follows: Part I: Novel methods and algorithms for optimization; particle swarm optimization; ant colony optimization; fireworks algorithms and brain storm optimization; swarm intelligence algorithms and improvements; genetic algorithm and differential evolution; swarm robotics. Part II: Multi-agent system; multi-objective optimization; neural networks; machine learning; identification and recognition; social computing and knowledge graph; service quality and energy management.

This edited volume presents the research results of the Collaborative Research Center 1026 “Sustainable manufacturing - shaping global value creation”. The book aims at providing a reference guide of sustainable manufacturing for researchers, describing methodologies for development of sustainable manufacturing solutions. The volume is structured in four chapters covering the following topics: sustainable manufacturing technology, sustainable product development, sustainable value creation networks and systematic change towards sustainable manufacturing. The target audience comprises both researchers and practitioners in the

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field of sustainable manufacturing, but the book may also be beneficial for graduate students.

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