

Fireflies

Backyard Pets

Get to know the amazing creatures right outside your door! What do toads like to eat? Why do crickets sing? Why does a firefly glow? If you've ever longed to know more about the habits of the animals and insects that live in your backyard, here's the book you've been waiting for! With *Backyard Pets*, you'll find out how to catch and care for lots of different, easy-to-find critters, from terrific toads to slithering slugs. You'll perform all sorts of investigations and activities, including discovering how snails eat and how caterpillars protect themselves, before you return your newly found pets safely to their natural home. And you'll even find out how to attract birds and butterflies to homemade feeders and gardens so that you can observe them every day as they go about their amazing lives. As you take care of your pets, you'll learn how to interpret fireflies' signals; how to entice worms from their burrows with sound; and how to make birdfeeders, hummingbird gardens, and toad abodes. Along the way, you'll discover lots of fascinating facts about the lives of these clever critters—from what their favorite foods are to how they see, hear, and move, and even how they help the environment.

Encyclopedia of Entomology

This text brings together fundamental information on insect taxa, morphology, ecology, behavior, physiology, and genetics. Close relatives of insects, such as spiders and mites, are included.

Roadmap to 3rd Grade Reading, Florida Edition

Discusses effective ways to improve your 3rd grade reading skills and to perform well on the Florida Comprehensive Assessment Test (FCAT).

Insects and Spiders of the World

Introduces insects and spiders from around the world, encompassing biology, behavior, habitat, and more.

Lafcadio Hearn: Japan's Great Interpreter

Extensive collection of excerpts exploring the psychological, spiritual, supernatural, social aspects of Japan. Including Lafcadio Hearn's *Farewell* and letters from 1894 to 1904.

Fireflies, Honey, and Silk

In this highly entertaining exploration of the myriad ways insects have enriched people's lives culturally, economically, and aesthetically, Waldbauer pens a captivating ramble through far-flung corners of history, mythology, poetry, literature, medicine, ecology, forensics, and other areas. This eye-opening ode illuminates man's essential relationship with the natural world.

Reading and Writing the Mediterranean

Vincenzo Consolo is counted by many critics among the most significant voices in contemporary world literature. This volume makes available for the first in English an edited and annotated volume of Consolo's short stories, essays, and other writings pertaining to the diverse cultures and histories of Sicily and the

Mediterranean basin. The Mediterranean region holds a particular fascination for Consolo, who seeks through his writing to recover the memory of a Sicilian and Mediterranean history, which he feels is presently being threatened by the forces of late-capitalist Western culture. His writings about the region also voice a commitment to questions of ethics and human rights, which have been brought to the fore by recent tensions dividing this area and forcing a mass exodus of its people. At a time when this part of the world is under threat from unbridled globalization as well as dangerous forms of ethnic and religious fundamentalism, Consolo's words offer an insightful rethinking of regionalism within a global hierarchy of values. They remind us of the necessity of moderation and contingency, and in so doing, attempt to recover a moral and ethical dimension for our collective life.

Curious Folks Ask 1 & 2 (Bundle)

This is the eBook version of the printed book. Why do lizards do pushups? What if the Earth's magnetic field reverses? How do stars die? What causes goose bumps, earwax, dandruff, headaches? Whether it's healthy to crack your knuckles, drink decaf, eat chocolate? What it costs to run all those LED lights around your house? These are just a few of the fascinating science and health questions real people have asked top science writer and San Diego Union-Tribune columnist Sherry Seethaler. This collection brings together 350 of her best answers—all crystal-clear, accurate, quick, and a pleasure to read. Seethaler is one of this generation's best science explainers, and it shows: Every answer is accurate, fun to read, and distilled to a single page or less!

Distributed Shared Memory

The papers present in this text survey both distributed shared memory (DSM) efforts and commercial DSM systems. The book discusses relevant issues that make the concept of DSM one of the most attractive approaches for building large-scale, high-performance multiprocessor systems. The authors provide a general introduction to the DSM field as well as a broad survey of the basic DSM concepts, mechanisms, design issues, and systems. The book concentrates on basic DSM algorithms, their enhancements, and their performance evaluation. In addition, it details implementations that employ DSM solutions at the software and the hardware level. This guide is a research and development reference that provides state-of-the art information that will be useful to architects, designers, and programmers of DSM systems.

Data Science in Engineering and Management

This book brings insight into data science and offers applications and implementation strategies. It includes current developments and future directions and covers the concept of data science along with its origins. It focuses on the mechanisms of extracting data along with classifications, architectural concepts, and business intelligence with predictive analysis. Data Science in Engineering and Management: Applications, New Developments, and Future Trends introduces the concept of data science, its use, and its origins, as well as presenting recent trends, highlighting future developments; discussing problems and offering solutions. It provides an overview of applications on data linked to engineering and management perspectives and also covers how data scientists, analysts, and program managers who are interested in productivity and improving their business can do so by incorporating a data science workflow effectively. This book is useful to researchers involved in data science and can be a reference for future research. It is also suitable as supporting material for undergraduate and graduate-level courses in related engineering disciplines.

Social Emotional Stories

Make social emotional learning fun and engaging with 24 ready-to-use lessons about phenomenal plants and astonishing animals. Storytelling is a learning device used by humans for centuries, and for good reason: storytelling is one of the best ways to increase critical thinking skills and social emotional learning (SEL). The award-winning Social Emotional Stories combines storytelling with thought-provoking lessons and activities to help elementary students improve their self-esteem, increase their engagement with school, and

give them a sense of empowerment. The book contains 24 individual lessons that include: An SEL objective with specific keywords like “inner strength,” “problem solving,” and “responsibility” An engaging story that focuses on a distinctive quality of either a plant (like the inner strength of bamboo) or an animal (like the courage of a pig) Multiple activities that are quick, easy, and require few supplies to help kids identify and dive deeper into the specific SEL concepts represented Educators can use these lessons individually with students, in small groups, or with an entire class. The lessons are interdisciplinary and flexible, with only minimal prep time required, allowing educators to adapt them for their situation. Extensive digital content supports the lessons with reproducible forms and a full-color photo of each plant and animal.

Under Her Eye

A showcase of poetry from some of the darkest and most lyrical voices of women in horror. A follow-up to the award-winning poetry showcase *Under Her Skin*, *UNDER HER EYE* features the best in never-before-published dark verse and lyrical prose from the voices of Women in Horror, themed on domestic horror and the terror women too often experience in their own homes. Edited by Lindy Ryan and Lee Murray, *UNDER HER EYE* celebrates women in horror from cover to cover. In addition to poems contributed by over one hundred poets worldwide, the collection features poems from Stephanie M. Wytovich, Jessica McHugh, and Marge Simon, with cover art by noted horror artist Lynne Hansen and an introduction by Bram Stoker Award®-winning poet Sara Tantlinger. This showcase is produced in partnership with The Pixel Project, a global non-profit organization focused on ending violence against women globally.

Evolutionary Computation

Edited by professionals with years of experience, this book provides an introduction to the theory of evolutionary algorithms and single- and multi-objective optimization, and then goes on to discuss to explore applications of evolutionary algorithms for many uses with real-world applications. Covering both the theory and applications of evolutionary computation, the book offers exhaustive coverage of several topics on nontraditional evolutionary techniques, details working principles of new and popular evolutionary algorithms, and discusses case studies on both scientific and real-world applications of optimization

Engineering Optimization

The revised and updated new edition of the popular optimization book for engineers The thoroughly revised and updated fifth edition of *Engineering Optimization: Theory and Practice* offers engineers a guide to the important optimization methods that are commonly used in a wide range of industries. The author—a noted expert on the topic—presents both the classical and most recent optimizations approaches. The book introduces the basic methods and includes information on more advanced principles and applications. The fifth edition presents four new chapters: *Solution of Optimization Problems Using MATLAB*; *Metaheuristic Optimization Methods*; *Multi-Objective Optimization Methods*; and *Practical Implementation of Optimization*. All of the book's topics are designed to be self-contained units with the concepts described in detail with derivations presented. The author puts the emphasis on computational aspects of optimization and includes design examples and problems representing different areas of engineering. Comprehensive in scope, the book contains solved examples, review questions and problems. This important book: Offers an updated edition of the classic work on optimization Includes approaches that are appropriate for all branches of engineering Contains numerous practical design and engineering examples Offers more than 140 illustrative examples, 500 plus references in the literature of engineering optimization, and more than 500 review questions and answers Demonstrates the use of MATLAB for solving different types of optimization problems using different techniques Written for students across all engineering disciplines, the revised edition of *Engineering Optimization: Theory and Practice* is the comprehensive book that covers the new and recent methods of optimization and reviews the principles and applications.

Insects Thematic Unit

Some of the interesting insects illustrated and described are grasshoppers, bees, butterflies and fireflies.

Klett Komplet트Trainer Gymnasium Englisch 7. Klasse

Der komplette Englisch-Lernstoff für die 7. Klasse im Gymnasium: Englisch-Übungsbuch mit den wichtigsten Regeln und Merksätzen Mit Aufgaben zu Present perfect simple und progressive, Simple past und past progressive, if-clauses, Futur und vieles mehr Wissen: Regeln und Merksätze mit anschaulichen Beispielen zeigen, wie's geht Extra: über 100 Übungen online Unterschiedlich schwierige Englisch-Aufgaben mit ausführlichen Lösungen helfen, Schritt für Schritt besser zu werden Mit Audio-Dateien zum Download oder über QR-Code üben Schülerinnen und Schüler, gesprochene Texte besser zu verstehen In vielen Tests und Checklisten werden Lernerfolg und Wissensstand überprüft und kontrolliert Für Schülerinnen und Schüler der Klasse 7. Passend zu allen Schulbüchern Diese Themen sind im Buch enthalten: Present perfect simple und progressive: Unregelmäßige Verben, for oder since Simple past und past progressive: Sätze mit when und while Past perfect simple und progressive Futur: going to-future, will-future, Mixed future tenses Bedingungssätze (if-clauses) Passiv: Unregelmäßige Verben, Bildung des Passives, der by-agent Relativsätze: Notwendige und nicht-notwendige Relativsätze Indirekte Rede: Bejahte und verneinte Sätze in der indirekten Rede, einleitende Verben, indirekte Fragen, Aufforderung und Befehle, Orts- und Zeitangaben sowie Pronomen Präpositionen und phrasal verbs Konjunktionen

A Farm Life

Daryl In Brewer Hoffstothas observed the fields and forests of her Western Pennsylvania farm for thirty-five years. This collection of twenty-seven essays explores birds, mammals, bees, fungi, trees, and other aspects of the natural world. She is a keen observer who delights in sharing what she sees as well as what she learns from naturalists. Her discoveries have strengthened her commitment to protecting the plants and animals that surround us.

Optimizing Engineering Problems through Heuristic Techniques

This book will cover heuristic optimization techniques and applications in engineering problems. The book will be divided into three sections that will provide coverage of the techniques, which can be employed by engineers, researchers, and manufacturing industries, to improve their productivity with the sole motive of socio-economic development. This will be the first book in the category of heuristic techniques with relevance to engineering problems and achieving optimal solutions. Features Explains the concept of optimization and the relevance of using heuristic techniques for optimal solutions in engineering problems Illustrates the various heuristics techniques Describes evolutionary heuristic techniques like genetic algorithm and particle swarm optimization Contains natural based techniques like ant colony optimization, bee algorithm, firefly optimization, and cuckoo search Offers sample problems and their optimization, using various heuristic techniques

Advances in Artificial Intelligence and Security

The 3-volume set CCIS 1422, CCIS 1423 and CCIS 1424 constitutes the refereed proceedings of the 7th International Conference on Artificial Intelligence and Security, ICAIS 2021, which was held in Dublin, Ireland, in July 2021. The total of 131 full papers and 52 short papers presented in this 3-volume proceedings was carefully reviewed and selected from 1013 submissions. The papers were organized in topical sections as follows: Part I: artificial intelligence; Part II: artificial intelligence; big data; cloud computing and security; Part III: cloud computing and security; encryption and cybersecurity; information hiding; IoT security.

Smart Buildings Digitalization

This book discusses various artificial intelligence and machine learning applications concerning smart buildings. It includes how renewable energy sources are integrated into smart buildings using suitable power electronic devices. The deployment of advanced technologies with monitoring, protection, and energy management features is included, along with a case study on automation. Overall, the focus is on architecture and related applications, such as power distribution, microgrids, photovoltaic systems, and renewable energy aspects. The chapters define smart building concepts and their related benefits. FEATURES Discusses various aspects of the role of the Internet of things (IoT) and machine learning in smart buildings Explains pertinent system architecture and focuses on power generation and distribution Covers power-enabling technologies for smart cities Includes photovoltaic system-integrated smart buildings This book is aimed at graduate students, researchers, and professionals in building systems engineering, architectural engineering, and electrical engineering.

Cuckoo Search and Firefly Algorithm

Nature-inspired algorithms such as cuckoo search and firefly algorithm have become popular and widely used in recent years in many applications. These algorithms are flexible, efficient and easy to implement. New progress has been made in the last few years, and it is timely to summarize the latest developments of cuckoo search and firefly algorithm and their diverse applications. This book will review both theoretical studies and applications with detailed algorithm analysis, implementation and case studies so that readers can benefit most from this book. Application topics are contributed by many leading experts in the field. Topics include cuckoo search, firefly algorithm, algorithm analysis, feature selection, image processing, travelling salesman problem, neural network, GPU optimization, scheduling, queuing, multi-objective manufacturing optimization, semantic web service, shape optimization, and others. This book can serve as an ideal reference for both graduates and researchers in computer science, evolutionary computing, machine learning, computational intelligence, and optimization, as well as engineers in business intelligence, knowledge management and information technology.

Kotto

Reproduction of the original: Kotto by Lafcadio Hearn

Discover Nature at Sundown

This book will introduce you to the beguiling world of nocturnal animals through directed observations and hands-on exploratory activities that lead you to your own exciting discoveries.

Advanced Machine Learning with Evolutionary and Metaheuristic Techniques

This book delves into practical implementation of evolutionary and metaheuristic algorithms to advance the capacity of machine learning. The readers can gain insight into the capabilities of data-driven evolutionary optimization in materials mechanics, and optimize your learning algorithms for maximum efficiency. Or unlock the strategies behind hyperparameter optimization to enhance your transfer learning algorithms, yielding remarkable outcomes. Or embark on an illuminating journey through evolutionary techniques designed for constructing deep-learning frameworks. The book also introduces an intelligent RPL attack detection system tailored for IoT networks. Explore a promising avenue of optimization by fusing Particle Swarm Optimization with Reinforcement Learning. It uncovers the indispensable role of metaheuristics in supervised machine learning algorithms. Ultimately, this book bridges the realms of evolutionary dynamic optimization and machine learning, paving the way for pioneering innovations in the field.

If There Were Only One Color In The World

In *If There Were Only One Color In The World*, the author revisited childhood memories and explored her imagination to create lively verses about nature. The author also wanted her readers to see her spiritual side. The poems were written to exemplify the awesome beauty of nature and to provoke thoughts of possibilities about our world. *If There Were Only One Color In The World* provided a channel for transformation for the author and her children. The poems were written to provide hope and relief during a difficult time for the author and the family. It provided humor, conversation about childhood adventures and speculations, and forged a spiritual family bond that helped our family to emerge victorious through trials and tribulations.

Attracting Beneficial Bugs to Your Garden, Revised and Updated Second Edition

This revised and updated edition of Jessica Walliser's award-winning *Attracting Beneficial Bugs to Your Garden* offers a valuable and science-backed plan for bringing balance back to the garden. With this indispensable gardening reference—now updated with new research, insights, and voices—learn how to create a healthy, balanced, and diverse garden capable of supporting a hard-working crew of beneficial pest-eating insects and eliminate the need for synthetic chemical pesticides. After a fascinating introduction to the predator and prey cycle and its importance to both wild ecosystems and home gardens, you'll meet dozens of pest-munching beneficial insects (the predators) that feast on garden pests (their prey). From ladybugs and lacewings to parasitic wasps and syrphid flies, these good guys of the bug world keep the natural system of checks and balances in prime working order. They help limit pest damage and also serve a valuable role in the garden's food web. But, they won't call your garden home if you don't have the resources they need to survive. With a hearty population of beneficial insects present in your garden, you'll say goodbye to common garden pests like aphids, cabbage worms, bean beetles, leafhoppers, and hornworms, without reaching for a spray can. To encourage these good guys to stick around and do their important work, you'll learn how to create a welcoming habitat and fill your garden with the best plants to support them. Inside you'll find: Bug profiles introducing dozens of beneficial insects and the down-and-dirty details on how they catch and eat their prey Plant profiles featuring the best plants for supporting beneficials Interviews with entomologists who focus their life's work on understanding the value of insects, including Doug Tallamy, Paula Shrewsbury, Leslie Allee, Dan Herms, and others An inspiring look at how plants and insects intersect in the most incredible ways Why gardening for bugs is just as important to the greater world as it is to your garden Tips for creating insectary plantings and borders to support a broad range of beneficials The acclaimed first edition of *Attracting Beneficial Bugs to Your Garden* ushered in a new way to garden; one that appreciates and understands the power of returning a natural balance to the garden. This revised and updated edition continues to herald and expands on that same important message.

The How-to Guide for Integrating the Common Core in Language Arts

Find out how to integrate the Common Core in language arts with this easy-to-use guide. This resource will leave teachers feeling empowered to construct their own lessons with easy-to-follow ideas and suggestions. Strategies and ideas are provided to help teachers deliver material while meeting the Common Core and other state standards. Instructional shifts in the Common Core State Standards are highlighted and examples of implementation are included with practical tips on how to integrate these standards in a lesson.

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Section 1: Acquiring Reading Skills Unit 1: Sports

News in Brief Unit 2: Singapore?Your Next Travel Destination Unit 3: CAP Electronics of America Inc. 2021 Annual Profit Report Unit 4: Pygmalion by George Bernard Shaw Unit 5: An Introduction to Classification in Biology Unit 6: Head over Heels for a Spanish Beauty Unit 7: The Good Food Blog Unit 8: Refugees—Burden, Threat, or Opportunity? Section 2: Putting Your Skills into Practice Unit 1: Checking In: Fun or Fuss? Unit 2: The Earth in Crisis Unit 3: Fireflies: The Light of Nature Unit 4: To Buy or Not to Buy: The Organic Food Debate Unit 5: Parkour: The Art of Movement Unit 6: Richard Wagner: Music and the Man Unit 7: Do Animals Have a Moral Nature? Unit 8: Hunger Marketing: Can a Short-Term Strategy Create Long-Term Success? Unit 9: Where Have All the Bees Gone? Unit 10: Can Slacktivism Lead to Social Change? Unit 11: Pushing Back Unit 12: To Cheat or Not to Cheat? Unit 13: Anya Taylor-Joy: Long Live the Queen Unit 14: Fair Trade: Leveling the Playing Field Unit 15: A Feast of Colors Unit 16: Surrounded by Medicine Unit 17: Where Did the Memories Go? Unit 18: Keep Calm and Drive On: Controlling Road Rage Unit 19: Getting a Fix on Processed Food Addiction Unit 20: Don't Forget to Wear Green! Unit 21: A Dirty Little War Unit 22: The Real Scoop on Ice Cream Unit 23: Henry Cavill: Bringing Superman to Life Unit 24: The Long Road to Victory Unit 25: Malta: A Tiny Country with a Lot of History Unit 26: The Louvre-Lens: A New Museum Experience Unit 27: Nuts! I'm Allergic! Unit 28: Pop-Up Book Magic Unit 29: Knot to Be: Fun Facts about Pretzels Unit 30: Almost Good Enough to Eat Unit 31: Vanity Height: The Race for the Tallest Unit 32: Surprising Geography Facts Unit 33: Crying for Health Unit 34: When Will the Earth Shake Next? Unit 35: Escape to Naples Unit 36: The Real Price of Palm Oil Unit 37: It Happened While You Slept Unit 38: Trust in a Digital Age Unit 39: Traditions of Love Unit 40: Supplements: Health Wonders or Hype? Unit 41: Elon Musk: Building a Path to Humanity's Future Unit 42: How Sweet It Is! Unit 43: Building and Maintaining Muscle Unit 44: Black: The Enduring Fashion Unit 45: Chipping Away at Winter's Gloom Unit 46: Swamp Thing! Unit 47: Putting a Stop to Hoarding Unit 48: Viva Italia! Unit 49: The History of Vaccines Unit 50: What's in a Skyscraper? Unit 51: Internet Vigilantism Unit 52: Share and Share Alike?Is Food Sharing the Answer to Kitchen Leftovers?

Optimization in Engineering Sciences

The purpose of this book is to present the main metaheuristics and approximate and stochastic methods for optimization of complex systems in Engineering Sciences. It has been written within the framework of the European Union project ERRIC (Empowering Romanian Research on Intelligent Information Technologies), which is funded by the EU's FP7 Research Potential program and has been developed in co-operation between French and Romanian teaching researchers. Through the principles of various proposed algorithms (with additional references) this book allows the reader to explore various methods of implementation such as metaheuristics, local search and populationbased methods. It examines multi-objective and stochastic optimization, as well as methods and tools for computer-aided decision-making and simulation for decision-making.

Nocturnal Animals

Real-life situations and relatable narratives introduce students to the principles of multiplication and division, an essential part of third-grade math. Age-appropriate language encourages learning, which will help readers to become fluent in more complex math topics. Engaging visuals complement high-interest topics, while visually appealing designs help to make the math concrete. Readers will delight in learning about nocturnal animals while also learning the fundamentals of multiplication. This volume meets CCSS Math Standard 3.OA.A.3.

Computational Intelligence for Water and Environmental Sciences

This book provides a comprehensive yet fresh perspective for the cutting-edge CI-oriented approaches in water resources planning and management. The book takes a deep dive into topics like meta-heuristic evolutionary optimization algorithms (e.g., GA, PSA, etc.), data mining techniques (e.g., SVM, ANN, etc.), probabilistic and Bayesian-oriented frameworks, fuzzy logic, AI, deep learning, and expert systems. These

approaches provide a practical approach to understand and resolve complicated and intertwined real-world problems that often imposed serious challenges to traditional deterministic precise frameworks. The topic caters to postgraduate students and senior researchers who are interested in computational intelligence approach to issues stemming from water and environmental sciences.

Artificial Intelligence Tools Book

Welcome to the exciting and rapidly evolving world of artificial intelligence (AI). This book, \"Artificial Intelligence Tools: Unlocking the Power of Intelligent Systems,\" is designed to be your comprehensive guide to understanding, implementing, and leveraging the cutting-edge tools that drive the advancements in AI. Whether you are a seasoned professional in the field or a curious newcomer, this book aims to provide you with valuable insights and practical knowledge to navigate the multifaceted landscape of AI tools. From machine learning algorithms to neural networks, readers will gain insights into the core concepts that form the backbone of intelligent systems. We aim to make complex ideas accessible, ensuring that readers, regardless of their technical background, can grasp the essentials of AI.

Forest Friends and the Great Berry Mystery

Embark on a magical journey with Nutmeg, Meadow, Thumper, and Whisk in \"Forest Friends and the Great Berry Mystery.\" This enchanting children's book takes young readers on a whimsical adventure through the mysterious enchanted forest. Follow the delightful characters as they navigate the Puzzle Tree, join the Grand Berry Parade, and discover the secrets of the Friendship Seed garden. Filled with laughter, curiosity, and heartwarming moments, this story celebrates the magic of friendship and the wonders of nature. With captivating illustrations and a sprinkle of fantasy, this book is perfect for children aged 3-8 who love tales of imagination, exploration, and the joy of shared adventures. Join our forest friends and let the enchantment unfold in every page!

Freaky Fauna

Dive into the weird and wonderful world of nature with 'Freaky Fauna: Tales of the Unusual and Extraordinary in the Animal Kingdom.' Explore bizarre behaviors, astonishing adaptations, and strange creatures in this captivating eBook filled with fascinating stories from the animal kingdom.

Control and Information Sciences

This book presents the select proceedings of the Control Instrumentation and System Conference (CISCON 2023) held at Manipal Institute of Technology, MAHE, Manipal. It examines a broad spectrum covering the latest trends in instrumentation, sensors and systems, and industrial automation and control. The topics covered include image and signal processing, robotics, renewable energy, power systems, and power drives, performance attributes of MEMS, multi-sensor data fusion, machine learning, optimization techniques, process control, safety monitoring, safety-critical control, supervisory control, system modeling, and virtual instrumentation. The book is a valuable reference for researchers and professionals interested in sensors, adaptive management, automation and control, and allied fields.

Seven Plays of Koffi Kwahulé

The first English translations of the surreal and violent work of one of Francophone Africa's most accomplished living playwrights

Advances in Swarm Intelligence

The two-volume set of LNCS 10941 and 10942 constitutes the proceedings of the 9th International Conference on Advances in Swarm Intelligence, ICSI 2018, held in Shanghai, China, in June 2018. The total of 113 papers presented in these volumes was carefully reviewed and selected from 197 submissions. The papers were organized in topical sections as follows: theories and models of swarm intelligence; ant colony optimization; particle swarm optimization; artificial bee colony algorithms; genetic algorithms; differential evolution; fireworks algorithms; bacterial foraging optimization; artificial immune system; hydrologic cycle optimization; other swarm-based optimization algorithms; hybrid optimization algorithms; multi-objective optimization; large-scale global optimization; multi-agent systems; swarm robotics; fuzzy logic approaches; planning and routing problems; recommendation in social media; prediction, classification; finding patterns; image enhancement; deep learning.

Cognitive Radio

The scarcity of radio spectrum is one of the most urgent issues at the forefront of future network research that is yet to be addressed. To address the problem of spectrum usage efficiency, the cognitive radio (CR) concept was proposed. The challenges of employing CRs include ensuring secure device operations and data transmission with advanced computing techniques. Successful development of CR systems will involve attainment of the following key objectives: Increasing the rate and capacity of CR-based networks How the power is utilized in CR hardware devices with CMOS circuits How the framework is needed in complex networks Vedic multipliers on CR networks Spatial analysis and clustering methods for traffic management To transmit a large volume of data like video compression Swarm optimization algorithms Resource sharing in peer-to-peer networking This book gathers the latest research works focusing on the issues, challenges, and solutions in the field of Cognitive Radio Networks, with various techniques. The chapters in this book will give solutions to the problems that Industry 4.0 faces, and will be an essential resource for scholars in all areas of the field.

The Age of Subtlety

A craze for intricate metaphors, referred to as conceits, permeated all forms of communication in seventeenth-century Italy and Spain, reshaping reality in highly creative ways. *The Age of Subtlety: Nature and Rhetorical Conceits in Early Modern Europe* situates itself at the crossroads of rhetoric, poetics, and the history of science, analyzing technical writings on conceits by such scholars as Baltasar Gracián, Matteo Peregrini, and Emanuele Tesauro against the background of debates on telescopic and microscopic vision, the generation of living beings, and the boundaries between the natural and the artificial. It contends that in order to understand conceits, we must locate them within the early modern culture of ingenuity that was also responsible for the engineer's machines, the juggler's sleight of hand, the wiles of the statesman, and the discovery of truths about nature.

Chaotic, Fractional, and Complex Dynamics: New Insights and Perspectives

The book presents nonlinear, chaotic and fractional dynamics, complex systems and networks, together with cutting-edge research on related topics. The fifteen chapters – written by leading scientists working in the areas of nonlinear, chaotic, and fractional dynamics, as well as complex systems and networks – offer an extensive overview of cutting-edge research on a range of topics, including fundamental and applied research. These include but are not limited to, aspects of synchronization in complex dynamical systems, universality features in systems with specific fractional dynamics, and chaotic scattering. As such, the book provides an excellent and timely snapshot of the current state of research, blending the insights and experiences of many prominent researchers.

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