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KEY=APPLICATIONS - JONAS SHANE

Seismic Structural Health Monitoring From Theory to Successful Applications *Springer* **This book includes a collection of state-of-the-art contributions addressing both theoretical developments in, and successful applications of, seismic structural health monitoring (S2HM). Over the past few decades, Seismic SHM has expanded considerably, due to the growing demand among various stakeholders (owners, managers and engineering professionals) and researchers. The discipline has matured in the process, as can be seen by the number of S2HM systems currently installed worldwide. Furthermore, the responses recorded by S2HM systems hold great potential, both with regard to the management of emergency situations and to ordinary maintenance needs. The book's 17 chapters, prepared by leading international experts, are divided into four major sections. The first comprises six chapters describing the specific requirements of S2HM systems for different types of civil structures and infrastructures (buildings, bridges, cultural heritage, dams, structures with base isolation devices) and for monitoring different phenomena (e.g. soil-structure interaction and excessive drift). The second section describes available methods and computational tools for data processing, while the third is dedicated to hardware and software tools for S2HM. In the book's closing section, five chapters report on state-of-the-art applications of S2HM around the world. Successful Case-based Reasoning Applications** *Springer Science & Business Media* **Case-based reasoning (CBR) is an Artificial Intelligence (AI) technique to support the capability of**

reasoning and learning in advanced decision support systems. CBR exploits the specific knowledge collected on previously encountered and solved situations, which are known as cases. In this book, we have collected a selection of papers on very recent CBR applications. These, after an in-depth analysis of their specific application domain needs, propose proper methodological solutions and give encouraging evaluation results, which have in some cases led to the commercialization step. The collected contributions demonstrate the capability of CBR to solve or handle issues which would be too difficult to manage with other classical AI methods and techniques, such as rules or models. The heterogeneity of the involved application domains indicates the flexibility of CBR, and its applicability in all those fields where experiential knowledge is (readily) available. Axiomatic Fuzzy Set Theory and Its Applications *Springer Science & Business Media* It is well known that "fuzziness"—informationgranulesand fuzzy sets as one of its formal manifestations— is one of important characteristics of human cognitionandcomprehensionofreality. Fuzzy phenomena existinnature and are encountered quite vividly within human society. The notion of a fuzzy set has been introduced by L. A. , Zadeh in 1965 in order to formalize human concepts, in connection with the representation of human natural language and computing with words. Fuzzy sets and fuzzy logic are used for mod- ing imprecise modes of reasoning that play a pivotal role in the remarkable human abilities to make rational decisions in an environment a?ected by -certainty and imprecision. A growing number of applications of fuzzy sets originated from the "empirical-semantic" approach. From this perspective, we were focused on some practical interpretations of fuzzy sets rather than being oriented towards investigations of the underlying mathematical str- tures of fuzzy sets themselves. For instance, in the context of control theory where fuzzy sets have played an interesting and practically relevant function, the practical facet of fuzzy sets has been stressed quite signi?cantly. However, fuzzy sets can be sought as an abstract concept with all formal underpinnings stemming from this more formal perspective. In the context of applications, it is worth underlying that membership functions do not convey the same meaning at the operational level when being cast in various contexts. Practicing Theory in Second Language Writing *Parlor Press LLC* Theory has been used widely in the field of second language writing. Second language writing specialists—teachers, researchers, and administrators—have yet to have an open and sustained conversation about what theory is, how it works, and, more important, how to practice theory. Practicing Theory in Second Language Writing features fourteen essays by distinguished scholars in second language writing who explore various aspects of theoretical work that goes on in the field. Theory and Applications of Satisfiability Testing – SAT 2017 20th International Conference, Melbourne, VIC, Australia, August 28 – September 1, 2017, Proceedings *Springer* This book constitutes the refereed proceedings of the 20th International Conference on Theory and Applications of Satisfiability Testing, SAT 2017, held in Melbourne, Australia, in August/September 2017.

The 22 revised full papers, 5 short papers, and 3 tool papers were carefully reviewed and selected from 64 submissions. The papers are organized in the following topical sections: algorithms, complexity, and lower bounds; clause learning and symmetry handling; maximum satisfiability and minimal correction sets; parallel SAT solving; quantified Boolean formulas; satisfiability modulo theories; and SAT encodings. Theory and Applications of Formal Argumentation Third International Workshop, TAFA 2015, Buenos Aires, Argentina, July 25-26, 2015, Revised Selected Papers *Springer* This book constitutes the refereed proceedings of the Third International Workshop on the Theory and Applications of Formal Argumentation, TAFA 2015, held in Buenos Aires, Argentina, in July 2015. The workshop was co-located with IJCAI 2015. The 15 revised full papers presented were carefully reviewed and selected from 25 submissions. The papers deal with formal theoretical models of argumentation and application of such models in subfields of AI, evaluation of models, both theoretical and practical, and theories and applications developed through inter-disciplinary collaboration. Theory and Applications of Satisfiability Testing - SAT 2006 9th International Conference, Seattle, WA, USA, August 12-15, 2006, Proceedings *Springer Science & Business Media* This book constitutes the refereed proceedings of the 9th International Conference on Theory and Applications of Satisfiability Testing, SAT 2006, held in Seattle, WA, USA in August 2006 as part of the 4th Federated Logic Conference, FLoC 2006.The 26 revised full papers presented together with 11 revised short papers presented together with 2 invited talks were carefully selected from 95 submissions. All current research issues in propositional and quantified Boolean formula satisfiability testing are covered; the papers are organized in topical sections on proofs and cores, heuristics and algorithms, applications, SMT, structure, MAX-SAT, local search and survey propagation, QBF, as well as counting and concurrency. Granular Dynamic Theory and Its Applications *Springer Science & Business Media* This volume introduces both theory and applications in detail. It includes differential dynamical models of granular shearing, dynamical strength characteristics and the excited response of granules subject to vibration. The book is a useful reference for both theoretical researchers and engineers in the fields of mining engineering and geotechnical engineering. Engineers in fields ranging from metallurgy to water conservancy and hydroelectricity will also benefit from the book. Engaging Language Learners through Technology Integration: Theory, Applications, and Outcomes Theory, Applications, and Outcomes *IGI Global* "This book provides empirical studies on theoretical issues and outcomes in regards to the integration of innovative technology into language teaching and learning, discussing empirical findings and innovative research using software and applications that engage learners and promote successful learning"--Provided by publisher. Many-body Theory of Atomic Structure and Photoionization *World Scientific* Detailed discussions on many of the recent advances in the many-body theory of atomic structure are presented by the leading experts around the

world on their respective specialized approaches. Emphasis is given to the photoionization dominated by the resonance structures, which reveals the effect of the multi-electron interaction in atomic transitions involving highly correlated atomic systems. Recent experimental developments, stimulated by the more advanced applications of intense lasers and short wavelength synchrotron radiation, are also reviewed. This book brings together a comprehensive theoretical and experimental survey of the current understanding of the basic physical processes involved in atomic processes. Theory of Evolutionary Algorithms and Application to System Synthesis *vdf Hochschulverlag AG* **Syntactic and Structural Pattern Recognition — Theory and Applications** *World Scientific* **This book is currently the only one on this subject containing both introductory material and advanced recent research results. It presents, at one end, fundamental concepts and notations developed in syntactic and structural pattern recognition and at the other, reports on the current state of the art with respect to both methodology and applications. In particular, it includes artificial intelligence related techniques, which are likely to become very important in future pattern recognition. The book consists of individual chapters written by different authors. The chapters are grouped into broader subject areas like "Syntactic Representation and Parsing", "Structural Representation and Matching", "Learning", etc. Each chapter is a self-contained presentation of one particular topic. In order to keep the original flavor of each contribution, no efforts were undertaken to unify the different chapters with respect to notation. Naturally, the self-containedness of the individual chapters results in some redundancy. However, we believe that this handicap is compensated by the fact that each contribution can be read individually without prior study of the preceding chapters. A unification of the spectrum of material covered by the individual chapters is provided by the subject and author index included at the end of the book. Contents:Introduction and Overview (M G Thomason)String Grammars for Syntactic Pattern Recognition (H Bunke)Parsing and Error-Correcting Parsing for String Grammars (E Tanaka)Array, Tree, and Graph Grammars (A Rosenfeld)String Matching for Structural Pattern Recognition (H Bunke)Matching Tree Structures (A Sanfeliu)Matching Relational Structures Using Discrete Relaxation (L G Shapiro & R M Haralick)Random Graphs (A K C Wong et al.)Grammatical Inference (L Miclet)An Algorithm for Inferring Context-Free Array Grammars (P S P Wang & X W Dai)Hybrid Pattern Recognition Methods (H Bunke)Combining Statistical and Structural Methods (W H Tsai)Industrial Applications (H S Baird)Three-Dimensional Object Recognition by Attributed Graphs (E K Wong)Chinese Character Recognition (J W Tai & Y J Liu)Table Driven Parsing for Shape Analysis (T C Henderson & A Samal)A General Purpose Line Drawing Analysis System (R Mohr)ECG Analysis (E Skordalakis) Readership: Graduates, undergraduates, researchers and practising professionals in pattern recognition. Effective Medium Theory Principles and Applications** *Oxford University Press* **Effective medium theory dates back to the early days**

of the theory of electricity. Faraday 1837 proposed one of the earliest models for a composite metal-insulator dielectric, and around 1870 Maxwell and later Garnett (1904) developed models to describe a composite or mixed material medium. The subject has been developed considerably since and while the results are useful for predicting materials performance, the theory can also be used in a wide range of problems in physics and materials engineering. This book develops the topic of effective medium theory by bringing together the essentials of both the static and the dynamical theory. Electromagnetic systems are thoroughly dealt with, as well as related areas such as the CPA theory of alloys, liquids, the density functional theory etc, with applications to ultrasonics, hydrodynamics, superconductors, porous media and others, where the unifying aspects of the effective medium concept are emphasized. In this new second edition two further chapters have been added to deal with the theory of electrolytes and the exciting frontiers in electromagnetic and related areas of cloaking research all from the perspective of effective medium theory. In addition, a new appendix with notes on the example problems makes this an ideal graduate level text book and research reference source. Advancing the Impact of Design Science: Moving from Theory to Practice 9th International Conference, DESRIST 2014, Miami, FL, USA, May 22-24, 2014. Proceedings *Springer* This book constitutes the thoroughly refereed proceedings of the 9th International Conference on Design Science Research in Information Systems and Technology, DESRIST 2014, held in Miami, FL, USA in May 2014. The 19 full papers, 7 research-in-progress papers and 18 short papers describing prototype demonstrations were carefully reviewed and selected from 71 submissions. The papers are organized in topical sections on design science; emerging themes; meta issues; methods; supporting business processes; team support; work-in-progress papers and prototypes. Environmental Economics and Management: Theory, Policy, and Applications *Cengage Learning* Provides an applied, practical approach to environmental economic theory that is accessible to students who have had minimal exposure to economics as well as those with an advanced understanding. With a strong focus on policy and real-world issues, Callan/Thomas's ENVIRONMENTAL ECONOMICS AND MANAGEMENT: THEORY, POLICY AND APPLICATIONS, Fifth Edition, complements economic theory with timely, real-world applications. Undergraduate or MBA students gain a clear perspective of the relationship between market activity and the environment. This text integrates a strong business perspective into the development of environmental decision making for a unique vantage point often overlooked in more conventional approaches. Students learn to use economic analytical tools, such as market models, benefit-cost analysis, and risk analysis, effectively to assess environmental problems and to evaluate policy solutions. With a proven, modular structure, this edition provides a well-organized presentation with the flexibility to tailor the presentation to your needs. Important Notice: Media content referenced within the product description or the product text may not be

available in the ebook version. **Leadership: Theory, Application, & Skill Development** *Cengage Learning* **The most practical leadership textbook on the market, LEADERSHIP 6e uses a unique three-pronged approach to teach leadership concepts and theory. The authors combine traditional theory with cutting-edge leadership topics in a concise presentation packed with real-world examples. The text puts students in the leadership role, engaging them in applying the concepts and providing step-by-step behavior models for effectively handling leadership functions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Item Response Theory Principles and Applications** *Springer Science & Business Media* **In the decade of the 1970s, item response theory became the dominant topic for study by measurement specialists. But, the genesis of item response theory (IRT) can be traced back to the mid-thirties and early forties. In fact, the term "Item Characteristic Curve," which is one of the main IRT concepts, can be attributed to Ledyard Tucker in 1946. Despite these early research efforts, interest in item response theory lay dormant until the late 1960s and took a backseat to the emerging development of strong true score theory. While true score theory developed rapidly and drew the attention of leading psychometricians, the problems and weaknesses inherent in its formulation began to raise concerns. Such problems as the lack of invariance of item parameters across examinee groups, and the inadequacy of classical test procedures to detect item bias or to provide a sound basis for measurement in "tailored testing," gave rise to a resurgence of interest in item response theory. Impetus for the development of item response theory as we now know it was provided by Frederic M. Lord through his pioneering works (Lord, 1952; 1953a, 1953b). The progress in the fifties was painstakingly slow due to the mathematical complexity of the topic and the nonexistence of computer programs. Progress in Reversal Theory** *Elsevier* **Reversal Theory is a new general theory of motivation, emotion, personality, psychopathology and stress which challenges previous ideas in these fields and sets up an unusually broad and integrative conceptual framework of its own. The papers in the six sections which make up this volume are concerned with: - developing the theory itself - looking at different research areas, or psychological problems, from the perspective of reversal theory - describing empirical studies of different kinds aimed at testing ideas drawn from the theory. Theoretical Computer Science: Exploring New Frontiers of Theoretical Informatics International Conference IFIP TCS 2000 Sendai, Japan, August 17-19, 2000 Proceedings** *Springer Science & Business Media* **This book constitutes the refereed proceedings of the International Conference IFIP TCS 2000 held in Sendai, Japan in August 2000. The 32 revised full papers presented together with nine invited contributions were carefully reviewed and selected from a total of 70 submissions. The papers are organized in two tracks on algorithms, complexity, and models of computation and on logics, semantics, specification, and verification. The book is devoted to exploring new frontiers of theoretical**

informatics and addresses all current topics in theoretical computer science. International Entrepreneurship in Small and Medium Size Enterprises Orientation, Environment and Strategy *Edward Elgar Publishing* The drivers of globalization are removing the barriers that segregated the competitive space of the small and large firms in the past. It is becoming increasingly difficult for independent small firms to thrive in their traditional markets unless they are globally competitive. Managing an enterprise's commercial, industrial and political relations well, regardless of size and location, is the essence of the entrepreneurial challenge in this competitive arena. Small and medium size enterprises (SMEs) often face very different issues than large multinational enterprises do when confronting internationalization. This volume provides an in-depth discussion of these challenges. The contributors to this volume explore the emerging patterns of SME growth and international expansion in response to the evolving competitive environment, dynamics of competitive behavior, entrepreneurial processes and formulation of strategy. They examine the basis and requirements of growth and expansion from three perspectives: the rapidly-changing environment in which business is conducted, entrepreneurial characteristics, and the evolving strategic and competitive response to this changing business environment. Business leaders, scholars and students interested in international business and entrepreneurship will welcome this volume. Intelligent Systems: Theory, Research and Innovation in Applications *Springer Nature* From artificial neural net / game theory / semantic applications, to modeling tools, smart manufacturing systems, and data science research – this book offers a broad overview of modern intelligent methods and applications of machine learning, evolutionary computation, Industry 4.0 technologies, and autonomous agents leading to the Internet of Things and potentially a new technological revolution. Though chiefly intended for IT professionals, it will also help a broad range of users of future emerging technologies adapt to the new smart / intelligent wave. In separate chapters, the book highlights fourteen successful examples of recent advances in the rapidly evolving area of intelligent systems. Covering major European projects paving the way to a serious smart / intelligent collaboration, the chapters explore e.g. cyber-security issues, 3D digitization, aerial robots, and SMEs that have introduced cyber-physical production systems. Taken together, they offer unique insights into contemporary artificial intelligence and its potential for innovation. The Historical Development of Quantum Theory *Springer Science & Business Media* The Historical Development of Quantum Theory is a definitive historical study of the scientific work and the human struggles that accompanied it. Environmental Politics and Foreign Policy Decision Making in Latin America Ratifying the Kyoto Protocol *Routledge* Although the Kyoto Protocol, an international agreement to address global climate change, has been regarded by many as an unsuccessful treaty both politically and environmentally, it stands as one of the world's few truly global agreements. Why did such a diverse group of countries decide to sign and/or ratify the treaty? Why did

they choose to do so at different times and in different ways? What explains their foreign policy behavior? Amy Below's book builds off the increasing significance of climate change and uses the Kyoto Protocol as a case study to analyze foreign policy decision making in Latin America. Below's study takes a regional perspective in order to examine why countries in Latin America made disparate foreign policy choices when they were faced with the same decision. The book looks at the decisions in Argentina, Mexico, and Venezuela via a process-tracing method. Below uses information obtained from primary and secondary documents and elite interviews to help reconstruct the processes, and augments her reconstruction with a content analysis of Conference of the Parties speeches by presidents and country delegates. The book complies with convention in the field by arguing that systemic, national and individual-level factors simultaneously impact foreign policy decisions, but makes the additional claim that role theory most accurately accounts for relationships between variables. Environmental Politics and Foreign Policy Decision Making in Latin America considers a variety of factors on individual, national, and international levels of analysis, and show that the foreign policy decisions are best viewed through the prism of role theory. The book also draws conclusions about the value of role theory in general and about environmental foreign policy decisions in developing countries, which will be of value to both policy-makers and academics. Improving Homeland Security Decisions *Cambridge University Press* What are the risks of terrorism and what are their consequences and economic impacts? Are we safer from terrorism today than before 9/11? Does the government spend our homeland security funds well? These questions motivated a twelve-year research program of the National Center for Risk and Economic Analysis of Terrorism Events (CREATE) at the University of Southern California, funded by the Department of Homeland Security. This book showcases some of the most important results of this research and offers key insights on how to address the most important security problems of our time. Written for homeland security researchers and practitioners, this book covers a wide range of methodologies and real-world examples of how to reduce terrorism risks, increase the efficient use of homeland security resources, and thereby make better decisions overall. From Theory to Practice The European Charter for Regional Or Minority Languages : International Conference Organised by the Ministry of the Interior and Kingdom Relations of the Netherlands and the Council of Europe, Noordwijkerhout (Netherlands), 30 November - 1 December 2001 *Council of Europe* The conference provided participants with the opportunity to take the pulse of regional or minority languages, not only where the charter has been ratified and is presently being implemented, but also where states are preparing for future signature and ratification. The role of local and regional authorities in the context of the charter was recognised and it was emphasised that they could contribute significantly to its success. Finally, certain legal aspects of the charter were examined, including the extent of its flexibility as a legal instrument and the

mandate and structure of the commit. Proceedings of the Sanitary Convention General Systems Theory Foundation, Intuition and Applications in Business Decision Making *Springer* This book demonstrates the theoretical value and practical significance of systems science and its logic of thinking by presenting a rigorously developed foundation—a tool for intuitive reasoning, which is supported by both theory and empirical evidence, as well as practical applications in business decision making. Following a foundation of general systems theory, the book presents an applied method to intuitively learn system-sciences fundamentals. The third and final part examines applications of the yoyo model and the theoretical results developed earlier within the context of problems facing business decision makers by organically combining methods of traditional science, the first dimension of science, with those of systems science, the second dimension, as argued by George Klir in the 1990s. This text would benefit graduate students, researchers, or practitioners in the areas of mathematics, systems science or engineering, economics, and business decision science. Mathematical Computation with Maple V: Ideas and Applications Ideas and Applications : Proceedings of the Maple Summer Workshop and Symposium, University of Michigan, Ann Arbor, June 28-30, 1993 *Springer Science & Business Media* This volume contains the proceedings for the Second Annual Maple Summer Workshop and Symposium held at the University of Michigan, Ann Arbor, on June 28-30, 1993. The goal of this conference was to encourage innovative applications of the Maple V mathematical computation system. The Developmental Science of Adolescence History Through Autobiography *Psychology Press* The Developmental Science of Adolescence: History Through Autobiography is the most authoritative account of the leading developmental scientists from around the world. Written by the scholars who shaped the history they are recounting, each chapter is an engaging and personal account of the past, present, and future direction of the field. No other reference work has this degree of authenticity in presenting the best developmental science of adolescence. The book includes a Foreword by Saths Cooper, President of the International Union of Psychological Science and autobiographical chapters by the following leading developmental scientists: Jeffrey Jensen Arnett, Robert Wm. Blum, Jeanne Brooks-Gunn, B. Bradford Brown, Marlis Buchmann, John Bynner, John Coleman, Rand D. Conger, James E. Côté, William Damon, Sanford M. Dornbusch, Nancy Eisenberg, Glen H. Elder, Jr., David P. Farrington, Helmut Fend, Andrew J. Fuligni, Frank F. Furstenberg, Beatrix A. Hamburg, Stephen F. Hamilton, Karen Hein, Klaus Hurrelmann, Richard Jessor, Daniel P. Keating, Reed W. Larson, Richard M. Lerner, Iris F. Litt, David Magnusson, Rolf Oerter, Daniel Offer, Augusto Palmonari, Anne C. Petersen, Lea Pulkkinen, Jean E. Rhodes, Linda M. Richter, Hans-Dieter Rösler, Michael Rutter, Ritch C. Savin-Williams, John Schulenberg, Lonnie R. Sherrod, Rainer K. Silbereisen, Judith G. Smetana, Margaret Beale Spencer, Laurence Steinberg, Elizabeth J. Susman, Richard E. Tremblay, Suman Verma, and Bruna Zani. Pharmaceutical and Biomedical Applications of Capillary Electrophoresis *Elsevier* The

book describes the theory and applications of Capillary Electrophoresis (CE) in the field of pharmaceutical and biomedical analysis. It is targeted towards users who are intimately involved in analytical problems, especially those which involve small samples. This book presents the technique of capillary electrophoresis from the point of view of the serious hands-on use in the field of pharmaceutical and biomedical analysis. An overview of general theory is presented to acquaint the novice with the fundamental principles. A more theoretical approach is taken in the presentation of electrokinetic chromatography. The next chapter discusses advances in column technologies, the preceding chapters having provided a foundation as to how separations occur. In the next three chapters, recognized experts in their fields present fundamentals and state-of-the-art techniques in the areas of optical, electrochemical and mass spectrometric detection. The major focus of the remaining chapters is on applications. This includes the analysis of pharmaceuticals, amino acids and peptides, macromolecules, nucleosides, nucleotides and oligonucleotides. The use of CE for analysis of small ions and separation of biological particles is also discussed. The issue of sample preparation for analysis by CE is addressed, especially as it relates to clinical analysis. How is Quantum Field Theory Possible? *Oxford University Press on Demand* This book presents a philosophical analysis of Quantum Field Theory. It is the first treatise in which the philosophies of space-time, quantum phenomena, and particle interactions are encompassed in a unified framework. Advanced Concepts in Particle and Field Theory *Cambridge University Press* An expansive and conceptually unifying textbook of fundamental and theoretical physics, describing elementary particles and their interactions. Conformal Field Theory *Springer Science & Business Media* Filling an important gap in the literature, this comprehensive text develops conformal field theory from first principles. The treatment is self-contained, pedagogical, and exhaustive, and includes a great deal of background material on quantum field theory, statistical mechanics, Lie algebras and affine Lie algebras. The many exercises, with a wide spectrum of difficulty and subjects, complement and in many cases extend the text. The text is thus not only an excellent tool for classroom teaching but also for individual study. Intended primarily for graduate students and researchers in theoretical high-energy physics, mathematical physics, condensed matter theory, statistical physics, the book will also be of interest in other areas of theoretical physics and mathematics. It will prepare the reader for original research in this very active field of theoretical and mathematical physics. Social Psychology in Action Evidence-Based Interventions from Theory to Practice *Springer* This timely and applied textbook brings together leading scientists to illustrate how key theories and concepts in social psychology help to predict and explain behavior, and can be successfully applied to benefit social and practical problems. It focuses on robust theories and models known for their successful applications and covers a diverse range of settings—spanning classroom interventions, health behavior, financial decision making, climate

change and much more. Each chapter comprises of a theoretical section to define the key concepts and summarize the theory, providing evidence for its reliability and limitations from basic research, as well as an application section that summarizes research in an applied context and provides details about a particular study including the respective application setting. The textbook expertly shows how theory can make meaningful predictions for real world contexts, and isn't afraid to explain the potential hurdles and pitfalls when applying a theory and its underlying set of concepts in a certain context. Crucially, this format moves towards theory testing in applied contexts, enabling a closer examination of why and under what circumstances interventions may be successful in obtaining a desired behavioral or psychological end-state. Among the topics explored: Mindset theory of action phases and if-then planning Quality of motivation in self-determination theory The focus theory of normative conduct Social identity theory and intergroup contact theory Intergroup forgiveness Social Psychology in Action is a critical resource for advanced undergraduate and graduate students in social and cultural psychology, as well as students of behavioral economics seeking to develop a deeper understanding of major theories and applications of the fields. Practitioners working in the areas of organizational behavior and management, health communication, social work, and educational science and pedagogy will also find the volume pertinent to their work. Semantic IoT: Theory and Applications Interoperability, Provenance and Beyond *Springer Nature* This book is focused on an emerging area, i.e. combination of IoT and semantic technologies, which should enable breaking the silos of local and/or domain-specific IoT deployments. Taking into account the way that IoT ecosystems are realized, several challenges can be identified. Among them of definite importance are (this list is, obviously, not exhaustive): (i) How to provide common representation and/or shared understanding of data that will enable analysis across (systematically growing) ecosystems? (ii) How to build ecosystems based on data flows? (iii) How to track data provenance? (iv) How to ensure/manage trust? (v) How to search for things/data within ecosystems? (vi) How to store data and assure its quality? Semantic technologies are often considered among the possible ways of addressing these (and other, related) questions. More precisely, in academic research and in industrial practice, semantic technologies materialize in the following contexts (this list is, also, not exhaustive, but indicates the breadth of scope of semantic technology usability): (i) representation of artefacts in IoT ecosystems and IoT networks, (ii) providing interoperability between heterogeneous IoT artefacts, (ii) representation of provenance information, enabling provenance tracking, trust establishment, and quality assessment, (iv) semantic search, enabling flexible access to data originating in different places across the ecosystem, (v) flexible storage of heterogeneous data. Finally, Semantic Web, Web of Things, and Linked Open Data are architectural paradigms, with which the aforementioned solutions are to be integrated, to provide production-ready deployments.

Chemoinformatics: Theory, Practice, & Products *Springer Science & Business Media* **Chemoinformatics is the use of information technology in the acquisition, analysis and management of data and information relating to chemical compounds and their properties. The purpose of this book is to provide computational scientists, medicinal chemists and biologists with complete practical information and underlying theory relating to modern Chemoinformatics and related drug discovery informatics technologies. This is an essential handbook for determining the right Chemoinformatics method or technology to use. Handbook of Combinatorics** *Elsevier* **Handbook of Combinatorics Philosophy of Science, Cognitive Psychology, and Educational Theory and Practice** *State University of New York Press* **This edited volume extends existing discussions among philosophers of science, cognitive psychologists, and educational researchers on the the restructuring of scientific knowledge and the domain of science education. This exchange of ideas across disciplinary fields raises fundamental issues and provides frameworks that help to focus educational research programs, curriculum development efforts, and teacher training programs. Positive Psychology: Theory, Research And Applications** *McGraw-Hill Education (UK)* **"Kate Hefferon and Ilona Boniwell have done an excellent job on this introduction to Positive Psychology! I encourage educators, students and everyone else interested in an updated, well-written and culturally balanced approach to the scientific study of human flourishing, to read this highly accessible, yet rigorously crafted text; and to get it under your skin by ways of carefully chosen tests and exercises." Hans Henrik Knoop, Aarhus University, Denmark and President, European Network for Positive Psychology "This accessible, yet comprehensive, book provides an excellent new resource in the area of positive psychology. Students, researchers and practitioners alike will benefit from the skilful and lively integration of theory, research and application. The authors are prominent members of the international positive psychology movement and as such are able to deliver a confident, practical and overarching assessment of the area, integrated into psychology more widely." Angela Clow, University of Westminster, UK "This is an exceptional book that synthesizes more than a decade of positive psychology research into chapters that are engaging, accessible, and educational. Hefferon and Boniwell demonstrate a mastery of the literature through the ways in which they have marshaled the evidence from research and practice into this invaluable resource. This book will become an essential reference guide for researchers, educators and practitioners of positive psychology around the world." Professor Alex Linley, Founding Director, Capp "This book is a valuable resource for students looking for an introduction to Positive Psychology, but also wanting to get a comprehensive and updated overview of this innovative approach to the study of human behaviour and experience. It provides a broad coverage of the most relevant theories and constructs developed within Positive Psychology, and of their relevance for intervention and application in the most diverse life domains. Hefferon and**

Boniwell use a rigorous though accessible and friendly style of presentation. By means of effective learning supports, they stimulate readers' active engagement in critical reflections on each topic. The authors address the several issues and open questions which still characterize Positive Psychology as a relatively recent domain through a balanced and objective approach." Antonella Delle Fave, University of Milano, Italy "Kate Hefferon and Ilona Boniwell have produced the first textbook which has set out purposefully to support students and teachers in higher education in the exciting new area of positive psychology. The authors have experience of teaching the lectures described in each chapter and the book is written in a way that students will find engaging and fun. Each chapter has clear learning objectives, mock essay questions, measurement tools, summaries and a guide to further resources. The content has been well researched and the early chapters cover the main concepts of positive psychology such as emotions, happiness, wellbeing, optimism, and resilience. The later chapters are more novel and cover interventions and applications all with a critical eye. Of particular note is the chapter on the body in positive psychology - a topic which is frequently omitted from the 'thoughts and feelings' approach of other texts in this area. I would strongly recommend this book to all students and teachers of psychology." Nanette Mutrie, Professor of Exercise and Sport Psychology, Strathclyde University, UK Discover the latest research findings and thinking on the topics of happiness, flow, optimism, motivation, character strengths, love and more! Find out how happiness levels can be increased, what stops us from flourishing and how positive psychology can be applied to many professional disciplines. This new textbook combines a breadth of information about positive psychology with reflective questions, critical commentary and up to date research. It is written in a witty, engaging and contemporary manner and includes: Personal development exercises to help you meld together research and application Mock essay questions to get essay writing going Think about it boxes to get you thinking about the concepts and theories discussed Experiments boxes giving you most influential positive psychology experiments to date Suggested resources guiding you where to go next Measurement tools presenting popular positive psychology tools Time out boxes on key issues, concepts and thinkers Chapter summaries to help you check their understanding Review questions to enhance your learning Positive Psychology is key reading for students taking modules in positive psychology and well-being, and will also be of interest to students of applied, coaching and sports psychology, as well as psychologists, coaches, counsellors and researchers interested in this burgeoning field. Integration of Ecosystem Theories: A Pattern *Springer Science & Business Media* Ecosystems are still a puzzle for mankind. We would like to be able to know their reactions and control them, but repeatedly we have been surprised by their unexpected reactions to our somewhat hasty actions. We unfortunately have to admit that our present knowledge about ecosystems and their true nature is rather limited. Many excellent contributions to a more profound

understanding of ecosystems have been launched during the last two decades, but if you do not know the field, it looks as if all the presented ecosystem theories are in complete discord with each other. However, ecosystems are extremely complex and only a pluralistic view will be able to reveal their basic properties. The different approaches therefore have much in common, when you go deeper into the core material, than the first superficial more glance will be able to tell and there is therefore a natural need for a unification of the various approaches to ecosystem theories. It has for many years been my desire to attempt to make a unification of the many excellent thoughts, ideas and observations about ecosystems, that scientists have contributed. These thoughts, ideas and hypotheses have not been made in vain.