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KEY=SUCCESS - GIOVANNA EZRA

SUCCESS IN PROGRAMMING

HOW TO GAIN RECOGNITION, POWER, AND INFLUENCE THROUGH PERSONAL BRANDING

Apress Why should you, a competent software developer or programmer, care about your own brand? After all, it's not like you're an actor or musician. In fact, as *Success in Programming: How to Gain Recognition, Power, and Influence Through Personal Branding* demonstrates in many ways, it's never been more important for you to think about yourself as a brand. Doing so will provide rocket fuel for your career. You'll find better jobs and become the "go-to" person in various situations. You'll become known for your expertise and leadership, and you'll find it easier to strike out on your own. People will seek out your advice and point of view. You'll get paid to speak, write, and consult. What's not to like about becoming a rock star developer? The good news—as Mozilla's senior technology evangelist, Frédéric Harper, writes—is that it's never been easier to improve your skills, stand out, share more quickly, and grow your network. This book provides the tools you need to build your reputation and enhance your career, starting right now. You'll learn what personal branding is and why you should care about it. You'll also learn what the key themes of a good brand are and where to find the ingredients to build your own, unique brand. Most importantly, you'll understand how to work your magic to achieve your goals and dreams. You'll also learn: How to use sites like StackOverflow and Github to build both your expertise and your reputation How to promote your brand in a way that attracts better-paying jobs, consulting gigs, industry invitations, and contract work How to become visible to the movers and shakers in your specific category of development How to exert power and influence to help yourself and others *Success in Programming: How to Gain Recognition, Power, and Influence Through Personal Branding* shows you how to scale your skills, gain visibility, make a real impact on people and within organizations, and achieve your goals. There's no need to become a marketing expert or hire a personal branding guru; this book and a desire to grow personally and professionally are all you need to leap to the next level of your career.

THE A-Z OF THE PHD TRAJECTORY

A PRACTICAL GUIDE FOR A SUCCESSFUL JOURNEY

Springer This textbook is a guide to success during the PhD trajectory. The first part of this book takes the reader through all steps of the PhD trajectory, and the second part contains a unique glossary of terms and explanation relevant for PhD candidates. Written in the accessible language of the PhD Talk blogs, the book contains a great deal of practical advice for carrying out research, and presenting one's work. It includes tips and advice from current and former PhD candidates, thus representing a broad range of opinions. The book includes exercises that help PhD candidates get their work kick-started. It covers all steps of a doctoral journey in STEM: getting started in a program, planning the work, the literature review, the research question, experimental work, writing, presenting, online tools, presenting at one's first conference, writing the first journal paper, writing and defending the thesis, and the career after the PhD. Since a PhD trajectory is a deeply personal journey, this book suggests methods PhD candidates can try out, and teaches them how to figure out for themselves which proposed methods work for them, and how to find their own way of doing things.

READING SUCCESS IN THE PRIMARY YEARS

AN EVIDENCE-BASED INTERDISCIPLINARY APPROACH TO GUIDE ASSESSMENT AND INTERVENTION

Springer Nature This open access book describes the Reading Success project, in which a 5-step, assessment-to-intervention process, based on the Simple View of Reading, was used within a primary school setting in Australia to better support those students who struggle with reading. It provides an easily accessible overview of each step of the process involved in implementing this approach and highlights the crucial importance of collaboration between professionals involved in the teaching of reading within a school setting. It focuses on the decision-making processes used, such as rich dialogue with the leadership team and teachers, and shares participants' perspectives gathered throughout the project. Using case studies, the book describes how the 5-step approach assists in creating detailed profiles of students' strengths and weaknesses in spoken and written language skills that can be used to guide targeted intervention This book offers valuable insights for educators, speech pathologists, researchers, and pre-service teacher education students interested in the teaching of reading

MATHEMATICS FOR FINANCE

AN INTRODUCTION TO FINANCIAL ENGINEERING

Springer This textbook contains the fundamentals for an undergraduate course in mathematical finance aimed primarily at students of mathematics. Assuming only a basic knowledge of probability and calculus, the material is presented in a mathematically rigorous and

complete way. The book covers the time value of money, including the time structure of interest rates, bonds and stock valuation; derivative securities (futures, options), modelling in discrete time, pricing and hedging, and many other core topics. With numerous examples, problems and exercises, this book is ideally suited for independent study.

ONLINE POSTGRADUATE EDUCATION IN A POSTDIGITAL WORLD

BEYOND TECHNOLOGY

Springer This edited volume builds upon the premise that online learning is not separate from the social and material world, and is made up of embodied, socially-meaningful experiences. It is founded on a “postdigital” perspective in which, much more than interactions with keyboards, computer screens, hardware or software, the learning that happens on online postgraduate programmes spills out into professional and informal settings, making connections with what comes before and after any formally-scheduled tasks. Unlike other books relating to online education, this book combines a theoretical perspective, in which the digital, physical and social are all interconnected within complex educational ecologies, with a focus grounded in postgraduate practice. This focus has important implications for the kinds of students and learning that are explored in the chapters of the book. This book provides an important contribution to the knowledge of what is required to produce quality, online postgraduate programmes at the level of teachers, curriculum designers, faculty developers and policy-makers.

CULTIVATING TEACHER RESILIENCE

INTERNATIONAL APPROACHES, APPLICATIONS AND IMPACT

Springer Nature This open access book follows the development of the Building Resilience in Teacher Education (BRiTE) project across Australia and internationally. Drawing on the success of this project and the related research collaborations that have since emerged, it highlights the importance of cultivating resilience at various stages of teachers’ careers. Divided into three sections, the book includes conceptual, empirical and applied chapters, designed to introduce readers to the field of research, provide empirical evidence and showcase innovative applications. The respective chapters illustrate the ways in which teacher resilience can be enhanced in a variety of contexts, and address specific learning activities, case studies, resources and strategies, student feedback and applied outcomes. They also consider future directions including cross-cultural applications and the use of technologies such as augmented reality. The book will appeal to researchers, teacher educators and teachers, as well as those interested in supporting the cultivation and ongoing development of professional resilience for pre-service and practicing teachers.

NUMBERS AND GEOMETRY

Springer Science & Business Media A beautiful and relatively elementary account of a part of mathematics where three main fields - algebra, analysis and geometry - meet. The book provides a broad view of these subjects at the level of calculus, without being a calculus book. Its roots are in arithmetic and geometry, the two opposite poles of mathematics, and the source of historic conceptual conflict. The resolution of this conflict, and its role in the development of mathematics, is one of the main stories in the book. Stillwell has chosen an array of exciting and worthwhile topics and elegantly combines mathematical history with mathematics. He covers the main ideas of Euclid, but with 2000 years of extra insights attached. Presupposing only high school algebra, it can be read by any well prepared student entering university. Moreover, this book will be popular with graduate students and researchers in mathematics due to its attractive and unusual treatment of fundamental topics. A set of well-written exercises at the end of each section allows new ideas to be instantly tested and reinforced.

WOMEN AND MANAGEMENT: GLOBAL ISSUES AND PROMISING SOLUTIONS [2 VOLUMES]

GLOBAL ISSUES AND PROMISING SOLUTIONS

ABC-CLIO For every woman still bumping the glass ceiling and every man who cares, these volumes recount challenges female leaders face—and strategies that will smooth the path to managerial positions in corporate America and worldwide. • Prepares both women and men to meet the challenges of today's global workforce • Shares up-to-date research about women leaders worldwide, including strategies for success • Provides an overview of gendered organizations to help readers understand organizational dynamics that prevent women from reaching their leadership potential • Discusses generational differences in perceptions of women leaders and managers • Offers best practices to assist organizations

CASES ON INNOVATIVE AND SUCCESSFUL USES OF DIGITAL RESOURCES FOR ONLINE LEARNING

IGI Global Education at all levels will continue to be dominated by technology for the foreseeable future. The rush to respond to the health concerns of the pandemic led to a mass adoption of online learning tools without careful consideration and placement within a conceptual framework that would have occurred prior to adoption in best practice scenarios. Cases on Innovative and Successful Uses of Digital Resources for Online Learning evaluates and describes successful initiatives in remote and hybrid learning during the pandemic disruption to traditional schooling for early childhood through college and job training levels. During the pandemic disruption, remote and hybrid tools were adopted rapidly without the benefit of careful utilization. This text conducts that careful consideration in the past tense. Covering topics such as artificial intelligence, connected learning, and educational simulation games, this book is an excellent reference for educators of K-12 and higher education, school faculty and administrators, researchers, pre-service teachers, policymakers, and academicians.

SUCCESS IN ACADEMIC SURGERY

PART 1

Springer Science & Business Media How does one become a successful academic surgeon? The Association for Academic Surgery has been teaching this to medical students, residents, and young faculty for the over 20 years and this is the first time the experience and lessons learned have been summarized in a book format. *Success in Academic Surgery, Part 1*, reinforces the curriculum of the Association for Academic Surgery courses and also provides guidance to individual surgeons who have not had the opportunity to attend these courses. Thus, this book is a valuable reference for medical students, surgical residents, and young surgical faculty.

HIGH LEVEL MODELS AND METHODOLOGIES FOR INFORMATION SYSTEMS

Springer In this book the authors introduce and explain many methods and models for the development of Information Systems (IS). It was written in large part to aid designers in designing successful devices/systems to match user needs in the field. Chief among these are website development, usability evaluation, quality evaluation and success assessment. The book provides great detail in order to assist readers' comprehension and understanding of both novel and refined methodologies by presenting, describing, explaining and illustrating their basics and working mechanics. Furthermore, this book presents many traditional methods and methodologies in an effort to make up a comprehensive volume on High Level Models and Methodologies for Information Systems. The target audience for this book is anyone interested in conducting research in IS planning and development. The book represents a main source of theory and practice of IS methods and methodologies applied to these realities. The book will appeal to a range of professions that are involved in planning and building the information systems, for example information technologists, information systems developers, as well as Web designers and developers—both researchers and practitioners; as a consequence, this book represents a genuinely multi-disciplinary approach to the field of IS methods and methodologies.

STRATEGIES FOR TEAM SCIENCE SUCCESS

HANDBOOK OF EVIDENCE-BASED PRINCIPLES FOR CROSS-DISCIPLINARY SCIENCE AND PRACTICAL LESSONS LEARNED FROM HEALTH RESEARCHERS

Springer Nature Collaborations that integrate diverse perspectives are critical to addressing many of our complex scientific and societal problems. Yet those engaged in cross-disciplinary team science often face institutional barriers and collaborative challenges. *Strategies for Team Science Success* offers readers a comprehensive set of actionable strategies for reducing barriers and overcoming challenges and includes practical guidance for how to implement effective team science practices. More than 100 experts—including scientists, administrators, and funders from a wide range of disciplines and professions—explain evidence-based principles, highlight state-of-the-art strategies, tools, and resources, and share first-person accounts of how they've applied them in their own successful team science initiatives. While many examples draw from cross-disciplinary team science initiatives in the health domain, the handbook is designed to be useful across all areas of science. *Strategies for Team Science Success* will inspire and enable readers to embrace cross-disciplinary team science, by articulating its value for accelerating scientific progress, and by providing practical strategies for success. Scientists, administrators, funders, and others engaged in team science will also leave equipped to develop new policies and practices needed to keep pace in our rapidly changing scientific landscape. Scholars across the Science of Team Science (SciTS), management, organizational, behavioral and social sciences, public health, philosophy, and information technology, among other areas of scholarship, will find inspiration for new research directions to continue advancing cross-disciplinary team science.

TRANSITIONAL JUSTICE IN COMPARATIVE PERSPECTIVE

PRECONDITIONS FOR SUCCESS

Springer Nature What if we could change the conditions in post-conflict/post-authoritarian countries to make transitional justice work better? This book argues that if the context in countries in need of transitional justice can be ameliorated before processes of transitional justice are established, they are more likely to meet with success. As the contributors reveal, this can be done in different ways. At the attitudinal level, changing the broader social ethos can improve the chances that societies will be more receptive to transitional justice. At the institutional level, the capacity of mechanisms and institutions can be strengthened to offer more support to transitional justice processes. Drawing on lessons learned in Colombia, Democratic Republic of the Congo, The Gambia, Lebanon, Palestine, and Uganda, the book explores ways to better the conditions in post-conflict/post-authoritarian countries to improve the success of transitional justice.

STRATEGIC SCIENTIFIC AND MEDICAL WRITING

THE ROAD TO SUCCESS

Springer A document may be based on accurate medical and scientific information, follow guidelines precisely, and be well written in clear and correct language, but may still fail to achieve its objectives. The strategic approach described in this book will help you to turn good medical and scientific writing into successful writing. It describes clearly and concisely how to identify the target audience and the desired outcome, and how to construct key messages for a wide spectrum of documents. Irrespective of your level of expertise and your seniority in the pharmaceutical, regulatory, or academic environment, this book is an essential addition to your supporting library. The authors share with you many years of combined experience in the pharmaceutical and academic environment and in the writing of successful outcome-driven documents.

SALES EXCELLENCE

SYSTEMATIC SALES MANAGEMENT

Springer Science & Business Media This book presents a very novel and strategic approach to Sales Management, an area that has suffered from a lack of sophistication in practice. This content-rich and thought-provoking book has a very unique positioning: It considers the sales performance of an organization at a very high, strategic level and offers specific guidance in managing not just a few direct reports but an entire organization's sales function. The book includes many useful tools and guidelines and is enhanced with numerous examples that help bring the concepts to life and make them very approachable for the trade market. A checklist-based scoring system that is utilized throughout the book allows readers to specifically evaluate their own company as well as to track its progress as concepts are applied over time. This work is an essential resource and thought-provoking read for ambitious Sales Managers, including CEO-level executives.

THE RULE OF LAW IN CYBERSPACE

Springer Nature The rule of law in cyberspace currently faces serious challenges. From the democratic system to the exercise of fundamental rights, the Internet has raised a host of new issues for classic legal institutions. This book provides a valuable contribution to the fields of international, constitutional and administrative law scholarship as the three interact in cyberspace. The respective chapters cover topics such as the notion of digital states and digital sovereignty, jurisdiction over the Internet, e-government, and artificial intelligence. The authors are eminent scholars and international experts with a profound knowledge of these topics. Particular attention is paid to the areas of digital democracy, digital media and regulation of the digital world. The approach employed is based on a comparative perspective from Germany, the Netherlands, Italy, Portugal and Brazil. One particular focus is on how various legal systems are coping with increasing difficulties in the exercise of democracy with regard to disinformation and hate speech. The roles of legislators, the judicial system and public administrations are analysed in the light of the latest cases, conflicts and technologies. In addition to this comparative approach, the book explores the evolution of rule of law in cyberspace and the upcoming new legal regimes in the European Union and Brazil. Special care is taken to offer a critical review of both the literature and the latest legal solutions adopted and being considered regarding the regulation of cyberspace from a constitutional and administrative perspective. Given its scope, the book will be of interest to researchers and scholars in the field of digital law whose work involves constitutional problems in cyberspace and/or practical problems concerning the regulation of social networks and online commerce.

SECOND INTERNATIONAL HANDBOOK OF EDUCATIONAL CHANGE

Springer Science & Business Media The two volumes of the second edition of the International Handbook of Educational Change comprise a totally new, and updated collection of the most critical and cutting-edge ideas in educational change. Written by the most influential thinkers in the field, these volumes cover educational change at both the theoretical and practical levels. The updated handbook remains connected to the classical concerns of the field, such as educational innovation, reform, and change management, and also offers new insights into educational change that have been brought about by social change and shifting contexts of educational reform. Like the first best selling Handbook, this one will also undoubtedly become an essential resource for people involved in all spheres of education, from classroom teachers, teacher leaders and administrators to educational researchers, curriculum developers, and university professors. No other work provides such a wide-ranging and comprehensive examination of the field of educational change.

HIGHER EDUCATION IN ROMANIA: OVERCOMING CHALLENGES AND EMBRACING OPPORTUNITIES

Springer Nature

DRINKING WATER MINERALS AND MINERAL BALANCE

IMPORTANCE, HEALTH SIGNIFICANCE, SAFETY PRECAUTIONS

Springer Nature Following the successful first edition of this book on drinking water quality and health, this new edition puts more focus on the importance of minerals in drinking water. It includes new scientific material and presents additional studies on the negative health effects of reverse osmosis water. The various safety organizations working on drinking water all warn about unhealthy constituents, as well as elements that can cause corrosion or scaling on pipes and installations. However, drinking water may also provide a substantial portion of the daily mineral intake, especially for the elderly and children, or those at risk of deficiencies due to unhealthy eating habits or starvation. Thus, a holistic approach to drinking water is presented in this book and the scope is extended from standards for undesirable substances to the basic mineral composition of water, examining 22 nutrient elements and ions and 21 toxic substances. The function of the nutrients in the body, symptoms of deficiency and overload, and advantages of the minerals from drinking water are presented, as well as symptoms of toxic elements from drinking water. The authors also suggest healthy ranges of minerals and mineral ratios for drinking water. The book offers a valuable resource for the health evaluation of drinking waters, for private well owners, public water producers and safety organizations alike.

WORLD CONGRESS ON MEDICAL PHYSICS AND BIOMEDICAL ENGINEERING, JUNE 7-12, 2015, TORONTO, CANADA

Springer This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics, a tri-annual high-level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine. The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and healthcare. It provides a unique and important forum to secure a coordinated, multileveled global response to the need, demand and importance of creating and supporting strong academic and clinical teams of biomedical

engineers and medical physicists for the benefit of human health.

GLOBAL CHANGE AND FUTURE EARTH

THE GEOSCIENCE PERSPECTIVE

Cambridge University Press Authoritative reviews on the wide-ranging ramifications of climate change, from an international team of eminent researchers.

DEGREES OF SUCCESS

THE TRANSITIONS FROM VOCATIONAL TO HIGHER EDUCATION

Emerald Group Publishing Learners with a VET background experience much higher rates of attrition compared to learners entering HE with academic qualifications. *Degrees of Success* explores the transition from vocational to higher education, and outlines what more can be done to support and provide improved access to HE for these learners.

THE CENTER FOR CREATIVE LEADERSHIP HANDBOOK OF COACHING IN ORGANIZATIONS

John Wiley & Sons Effect better outcomes with a robust coaching program The CCL Handbook of Coaching in Organizations deals with the practical, ethical, and political challenges of coaching within an organization. From coaching superiors to coaching business teams, this book outlines the Center for Creative Leadership (CCL) approach to professional coaching to help readers better manage leadership development and talent management program outcomes. With expert guidance on the key functions of human resources, learning and development, and organizational development, readers will gain insight into the issues associated with coaching program implementation and management, and the use of internal versus external coaches. Coverage includes a wide range of coaching-based services used in most large organizations, with practical advice on creating the right programs for maximum impact within the available budget. Professional development is a hot topic and plays a key role in attracting and retaining the best talent. Coaching is a broad area within the field, encompassing a range of services and goals, with varied expectations and requirements. This book provides actionable guidance for those designing, initiating, and implementing coaching programs, with new approaches and techniques that drive better outcomes. Provide direct coaching within an organization Manage coaching systems and programs Initiate and lead mentoring and peer-coaching programs Manage external coaches, and deal effectively with coaching suppliers An ideal coaching program must balance need with budget and be tailored to the requirements and resources of both the organization and the participants. It's a complex undertaking, but the right strategy and planning can lead to even better than expected outcomes. For the human resources professional who wants to strengthen an organization's coaching program, CCL Handbook of Coaching in Organizations is a thoughtful reference for a specialized function.

IMPROVING A COUNTRY'S EDUCATION

PISA 2018 RESULTS IN 10 COUNTRIES

Springer Nature This open access book compares and contrasts the results of international student assessments in ten countries. The OECD's Programme for International Student Assessment (PISA) released the results of its 2018 assessment in December 2019. This book reflects the debates that typically follow the release of these results and focuses on the causes of differences between countries. Such causes include continuous decline in one country, improvement combined with increasing internal inequalities in another country, or rapid improvement in spite of an outdated curriculum in yet another. In addition, the book discusses a number of general questions: Is knowledge outdated? Are computers taking over and replacing teachers? Are schools killing creativity? Are we adequately preparing the next generation? Are schools failing to educate our kids? The book starts out with a summary of PISA's evolution and PISA results, and an explanation of the major factors that play a role in changes in countries' results. The next ten chapters are devoted to ten specific countries, offering a summary of data and an explanation of the major drives for changes in education results for each one. Each chapter includes a short description of the country's educational system as well as the impact of PISA and other ILSA studies on the country's educational policies. The chapters also include a timeline of policy measures and main hallmarks of the country's educational evolution, discussing the impact of these measures on its PISA results. A final reference chapter explains what PISA is, what it measures and how. While highlighting the 2018 results, the book also takes into consideration previous results, as well as long-term initiatives. This book gathers the contribution of well-known and respected experts in the field. Specialists such as Eric Hanushek, for the US, Tim Oates, for England, Montse Gomendio, for Spain, Gunda Tire, for Estonia, and all other contributors draw on their vast experience and statistical analysis expertise to draw a set of rich country lessons and recommendations that are invaluable for all of those who care about improving a country's education system.

EDUCATION IN CAMBODIA

FROM YEAR ZERO TOWARDS INTERNATIONAL STANDARDS

Springer Nature This book is the most comprehensive account yet published about the education system in Cambodia. It covers all system levels and draws upon the knowledge and insights of a wide range of leading Cambodian and foreign scholars. The book focuses on how the system has developed and is making progress. Significant achievements over the past two decades are evident, but many problems remain, including the poor quality of teaching, research and institutional management. Under-funding is an ongoing obstacle, but so too is a bureaucratic culture of resistance to change, a history of weak governance, and an anti-reform sentiment deriving from a teacher-centred and exam-driven curriculum. Achieving international standards must now be the system's highest priority. To this end, the system must rid itself of conservatism, complacency and manipulation by parochial vested interests.

AUTOMATED MACHINE LEARNING

METHODS, SYSTEMS, CHALLENGES

Springer This open access book presents the first comprehensive overview of general methods in Automated Machine Learning (AutoML), collects descriptions of existing systems based on these methods, and discusses the first series of international challenges of AutoML systems. The recent success of commercial ML applications and the rapid growth of the field has created a high demand for off-the-shelf ML methods that can be used easily and without expert knowledge. However, many of the recent machine learning successes crucially rely on human experts, who manually select appropriate ML architectures (deep learning architectures or more traditional ML workflows) and their hyperparameters. To overcome this problem, the field of AutoML targets a progressive automation of machine learning, based on principles from optimization and machine learning itself. This book serves as a point of entry into this quickly-developing field for researchers and advanced students alike, as well as providing a reference for practitioners aiming to use AutoML in their work.

THE HANDBOOK ON CARIBBEAN EDUCATION

IAP This book brings together leading scholars of Caribbean education from around the world. Schooling continues to hold a special place both as a means to achieve social mobility and as a mechanism for supporting the economy of Caribbean nations. In this book, the Caribbean includes the Greater and Lesser Antilles. The Greater Antilles is made up of the five larger islands (and six countries) of the northern Caribbean, including the Cayman Islands, Cuba, Hispaniola (Haiti and the Dominican Republic), Puerto Rico, and Jamaica. The Lesser Antilles includes the Windward and Leeward Islands which are inclusive of Barbados, St. Vincent, Trinidad and Tobago along with several other islands. Each chapter provides a unique perspective on the various social and cultural issues that define Caribbean education and schooling. The Handbook on Caribbean Education fills a void in the literature and documents the important research being done throughout the Caribbean. Creating a space where Caribbean voices are a part of "international" discussions about 21st century global matters and concerns is an important contribution of this work.

PROCESS BASED UNIFICATION FOR MULTI-MODEL SOFTWARE PROCESS IMPROVEMENT

Zádor Dániel Kelemen Many different quality approaches are available in the software industry. Some of the approaches, such as ISO 9001 are not software specific, i.e. they define general requirements for an organization and they can be used at any company. Others, such as Automotive SPICE have been derived from a software specific approach, and can be used for improving specific (in this case automotive) processes. Some are created to improve development processes (e.g. CMMI for Development), others focus on services (e.g. CMMI for Services), and again others are related to particular processes such as software testing (e.g. TMMi) or resource management (e.g. People CMM). A number of differences among quality approaches exist and there can be various situations in which the usage of multiple approaches is required, e.g. to strengthen a particular process with multiple quality approaches or to reach certification of the compliance to a number of standards. First of all it has to be decided which approaches have potential for the organization. In many cases one approach does not contain enough information for process implementation. Consequently, the organization may need to use several approaches and the decision has to be made how the chosen approaches can be used simultaneously. This area is called Multi-model Software Process Improvement (MSPI). The simultaneous usage of multiple quality approaches is called the multi-model problem. In this dissertation we propose a solution for the multi-model problem which we call the Process Based Unification (PBU) framework. The PBU framework consists of the PBU concept, a PBU process and the PBU result. We call PBU concept the mapping of quality approaches to a unified process. The PBU concept is operationalized by a PBU process. The PBU result includes the resulting unified process and the mapping of quality approaches to the unified process. Accordingly, we addressed the following research question: Does the PBU framework provide a solution?

MULTIPLE REPRESENTATIONS IN CHEMICAL EDUCATION

Springer Science & Business Media Chemistry seeks to provide qualitative and quantitative explanations for the observed behaviour of elements and their compounds. Doing so involves making use of three types of representation: the macro (the empirical properties of substances); the sub-micro (the natures of the entities giving rise to those properties); and the symbolic (the number of entities involved in any changes that take place). Although understanding this triplet relationship is a key aspect of chemical education, there is considerable evidence that students find great difficulty in achieving mastery of the ideas involved. In bringing together the work of leading chemistry educators who are researching the triplet relationship at the secondary and university levels, the book discusses the learning involved, the problems that students encounter, and successful approaches to teaching. Based on the reported research, the editors argue for a coherent model for understanding the triplet relationship in chemical education.

DATA ANALYSIS

STATISTICAL AND COMPUTATIONAL METHODS FOR SCIENTISTS AND ENGINEERS

Springer Science & Business Media The fourth edition of this successful textbook presents a comprehensive introduction to statistical and numerical methods for the evaluation of empirical and experimental data. Equal weight is given to statistical theory and practical problems. The concise mathematical treatment of the subject matter is illustrated by many examples and for the present edition a library of Java programs has been developed. It comprises methods of numerical data analysis and graphical representation as well as many example programs and solutions to programming problems. The book is conceived both as an introduction and as a work of reference. In particular it addresses itself to students, scientists and practitioners in science and engineering as a help in the analysis of their data in laboratory courses, in working for bachelor or master degrees, in thesis work, and in research and professional work.

INFORMATION—CONSCIOUSNESS—REALITY

HOW A NEW UNDERSTANDING OF THE UNIVERSE CAN HELP ANSWER AGE-OLD QUESTIONS OF EXISTENCE

Springer This open access book chronicles the rise of a new scientific paradigm offering novel insights into the age-old enigmas of existence. Over 300 years ago, the human mind discovered the machine code of reality: mathematics. By utilizing abstract thought systems, humans began to decode the workings of the cosmos. From this understanding, the current scientific paradigm emerged, ultimately discovering the gift of technology. Today, however, our island of knowledge is surrounded by ever longer shores of ignorance. Science appears to have hit a dead end when confronted with the nature of reality and consciousness. In this fascinating and accessible volume, James Glattfelder explores a radical paradigm shift uncovering the ontology of reality. It is found to be information-theoretic and participatory, yielding a computational and programmable universe.

INFORMATION SYSTEMS THEORY

EXPLAINING AND PREDICTING OUR DIGITAL SOCIETY, VOL. 1

Springer Science & Business Media The overall mission of this book is to provide a comprehensive understanding and coverage of the various theories and models used in IS research. Specifically, it aims to focus on the following key objectives: To describe the various theories and models applicable to studying IS/IT management issues. To outline and describe, for each of the various theories and models, independent and dependent constructs, reference discipline/originating area, originating author(s), seminal articles, level of analysis (i.e. firm, individual, industry) and links with other theories. To provide a critical review/meta-analysis of IS/IT management articles that have used a particular theory/model. To discuss how a theory can be used to better understand how information systems can be effectively deployed in today's digital world. This book contributes to our understanding of a number of theories and models. The theoretical contribution of this book is that it analyzes and synthesizes the relevant literature in order to enhance knowledge of IS theories and models from various perspectives. To cater to the information needs of a diverse spectrum of readers, this book is structured into two volumes, with each volume further broken down into two sections. The first section of Volume 1 presents detailed descriptions of a set of theories centered around the IS lifecycle, including the Success Model, Technology Acceptance Model, User Resistance Theories, and four others. The second section of Volume 1 contains strategic and economic theories, including a Resource-Based View, Theory of Slack Resources, Portfolio Theory, Discrepancy Theory Models, and eleven others. The first section of Volume 2 concerns socio-psychological theories. These include Personal Construct Theory, Psychological Ownership, Transactive Memory, Language-Action Approach, and nine others. The second section of Volume 2 deals with methodological theories, including Critical Realism, Grounded Theory, Narrative Inquiry, Work System Method, and four others. Together, these theories provide a rich tapestry of knowledge around the use of theory in IS research. Since most of these theories are from contributing disciplines, they provide a window into the world of external thought leadership.

PROCEEDINGS OF IAC IN BUDAPEST 2020

Czech Institute of Academic Education International Academic Conference on Global Education, Teaching and Learning International Academic Conference on Management, Economics, Business and Marketing International Academic Conference on Engineering, Transport, IT and AI

HOW SCHOOL LEADERS CONTRIBUTE TO STUDENT SUCCESS

THE FOUR PATHS FRAMEWORK

Springer While considerable evidence indicates that school leaders are able to make important contributions to the success of their students, much less is known about how such contributions are made. This book provides a comprehensive account of research aimed at filling this gap in our knowledge, along with guidelines about how school leaders might use this knowledge for their own school improvement work. Leadership practices known to be effective for improving student success are outlined in the first section of the book while the remaining sections identify four "paths" along which the influence of those practices "flow" to exercise an influence on student success. Each of the Rational, Emotional, Organizational and Family paths are populated by conditions or variables known to have relatively direct effects on student success and also open to influence by effective leadership practices. While the Four Path framework narrows the attention of school leaders to a still-considerable number conditions known to contribute to student success, it leaves school leaders the autonomy to select, for improvement efforts, the sub-set of conditions that make the most sense in their own local circumstances. The approach to leadership described in this book provides evidence-based guidance on what to lead and flexibility on how to lead for purposes of improving student learning.

INTRODUCTION TO NONLINEAR DISPERSIVE EQUATIONS

Springer This textbook introduces the well-posedness theory for initial-value problems of nonlinear, dispersive partial differential equations, with special focus on two key models, the Korteweg–de Vries equation and the nonlinear Schrödinger equation. A concise and self-contained treatment of background material (the Fourier transform, interpolation theory, Sobolev spaces, and the linear Schrödinger equation) prepares the reader to understand the main topics covered: the initial-value problem for the nonlinear Schrödinger equation and the generalized Korteweg–de Vries equation, properties of their solutions, and a survey of general classes of nonlinear dispersive equations of physical and mathematical significance. Each chapter ends with an expert account of recent developments and open problems, as well as exercises. The final chapter gives a detailed exposition of local well-posedness for the nonlinear Schrödinger equation, taking the reader to the forefront of recent research. The second edition of Introduction to Nonlinear Dispersive Equations builds upon the success of the first edition by the addition of updated material on the main topics, an expanded bibliography, and new exercises. Assuming only basic knowledge of complex analysis and integration theory, this book will enable

graduate students and researchers to enter this actively developing field.

THE EUROPEAN LANDING OBLIGATION

REDUCING DISCARDS IN COMPLEX, MULTI-SPECIES AND MULTI-JURISDICTIONAL FISHERIES

Springer This open access book provides a comprehensive examination of the European Landing Obligation policy from many relevant perspectives. It includes evaluations of its impacts at economical, socio-cultural, ecological and institutional levels. It also discusses the feasibility and benefits of several potential mitigation strategies. The book was timely published, exactly at the time where the Landing Obligation was planned to be fully implemented. This book is of significant interest to all stakeholders involved, but also to the general public of Europe and to other jurisdictions throughout the world that are also searching for ways to deal with by-catch and discard issues.

INTRODUCTION TO MULTIPLE TIME SERIES ANALYSIS

Springer Science & Business Media

COVID-19 AND PSYCHOLOGY

PEOPLE AND SOCIETY IN TIMES OF PANDEMIC

Springer Nature Already, the COVID-19 pandemic has left a deep mark on all levels of human activity and sentiment. As far as the best possible management of the situation is concerned, it is not only up to governments and experts in health systems, but ultimately up to each individual to act appropriately. Understanding the psychological background and the societal context is essential. This essential is also intended to make a contribution in the sense of joint and successful coping. This Springer essential is a translation of the original German 1st edition COVID-19 und Psychologie by John G. Haas, published by Springer Fachmedien Wiesbaden GmbH, part of Springer Nature in 2020. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically different from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors.

RECENTRALISATION IN COLOMBIA

Springer Nature This book tackles the question of how to characterise and account for recentralisation in Colombia between central and lower levels of government across a 26-year period. Around the world, the COVID-19 pandemic has once again put the distribution of responsibilities, resources, and authority between different levels of government at the heart of political debate. This book brings this issue to light as a topic central to the study of public administration. Drawing on extensive fieldwork with more than a hundred interviews with former presidents, ministers, members of congress, governors, local mayors and subnational public officials, as well as documentary sources, it begins with a historical account of recentralisation processes in the world. It then proposes a theoretical framework to explain these processes, before tracing and carefully comparing recentralisation episodes in Colombia using theory-guided process tracing.

WARFARE ECOLOGY

A NEW SYNTHESIS FOR PEACE AND SECURITY

Springer Science & Business Media The purpose of this book is specific and ambitious: to outline the distinctive elements, scope, and usefulness of a new and emerging field of applied ecology named warfare ecology. Based on a NATO Advanced Research Workshop held on the island of Vieques, Puerto Rico, the book provides both a theoretical overview of this new field and case studies that range from mercury contamination during World War I in Slovenia to the ecosystem impacts of the Palestinian occupation, and from the bombing of coral reefs of Vieques to biodiversity loss due to violent conflicts in Africa. Warfare Ecology also includes reprints of several classical papers that set the stage for the new synthesis described by the authors. Written for environmental scientists, military and humanitarian relief professionals, conservation managers, and graduate students in a wide range of fields, Warfare Ecology is a major step forward in understanding the relationship between war and ecological systems.