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Handbook of Research on Lessons Learned From Transitioning to Virtual Classrooms During a Pandemic
Strengthening Forensic Science in the United States
Innovative Internet Computing Systems
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DOYLE NOVAK

Graduating Engineer & Computer Careers

Springer

This volume aims to highlight trends and important directions of research in orthogonal polynomials, q-series, and related topics in number theory, combinatorics, approximation theory, mathematical physics, and computational and applied harmonic analysis. This collection is based on the invited lectures by

well-known contributors from the International Conference on Orthogonal Polynomials and q-Series, that was held at the University of Central Florida in Orlando, on May 10–12, 2015. The conference was dedicated to Professor Mourad Ismail on his 70th birthday. The editors strived for a volume that would inspire young researchers and provide a wealth of information in an engaging format. Theoretical, combinatorial and computational /algorithmic aspects are considered, and each chapter contains many references on its topic, when appropriate. Contents: Mourad Ismail (Richard Askey)Binomial Andrews–Gordon–Bressoud Identities (Dennis Stanton)Symmetric Expansions of Very Well-Poised Basic Hypergeometric Series (George E Andrews)A Sturm–Liouville Theory for Hahn Difference Operator (M H Annaby, A E Hamza and S D Makharesh)Solvability of the Hankel Determinant Problem for Real Sequences (Andrew Bakan and Christian Berg)Convolution and Product Theorems for the Special Affine Fourier Transform (Ayush Bhandari and Ahmed I Zayed)A Further Look at Time-and-Band Limiting for Matrix Orthogonal

Polynomials (M Castro, F A Grünbaum, I Pacharoni and I Zurrián)The Orthogonality of Al–Salam–Carlitz Polynomials for Complex Parameters (Howard S Cohl, Roberto S Costas-Santos and Wenqing Xu)Crouching AGM, Hidden Modularity (Shaun Cooper, Jesús Guillera, Armin Straub and Wadim Zudilin)Asymptotics of Orthogonal Polynomials and the Painlevé Transcendents (Dan Dai)From the Gaussian Circle Problem to Multivariate Shannon Sampling (Willi Freeden and M Zuhair Nashed)Weighted Partition Identities and Divisor Sums (F G Garvan)On the Ismail–Letessier–Askey Monotonicity Conjecture for Zeros of Ultraspherical Polynomials (Walter Gautschi)A Discrete Top-Down Markov Problem in Approximation Theory (Walter Gautschi)Supersymmetry of the Quantum Rotor (Vincent X Genest, Luc Vinet, Guo-Fu Yu and Alexei Zhedanov)The Method of Brackets in Experimental Mathematics (Ivan Gonzalez, Karen Kohl, Lin Jiu and Victor H Moll)Balanced Modular Parameterizations (Tim Huber, Danny Lara and Esteban Melendez)Some Smallest Parts Functions from Variations of Bailey's Lemma (Chris Jennings-Shaffer)Dual Addition Formulas

Associated with Dual Product Formulas (Tom H Koornwinder) Holonomic Tools for Basic Hypergeometric Functions (Christoph Koutschan and Peter Paule)A Direct Evaluation of an Integral of Ismail and Valent (Alexey Kuznetsov)Algebraic Generating Functions for Gegenbauer Polynomials (Robert S Maier)q-Analogues of Two Product Formulas of Hypergeometric Functions by Bailey (Michael J Schlosser)Summation Formulae for Noncommutative Hypergeometric Series (Michael J Schlosser)Asymptotics of Generalized Hypergeometric Functions (Y Lin and R Wong)Mock Theta-Functions of the Third Order of Ramanujan in Terms of Appell–Lerch Series (Changgui Zhang)On Certain Positive Semidefinite Matrices of Special Functions (Ruiming Zhang) Readership: Graduate students and researchers interested in orthogonal polynomials and *NSBE* MIT Press (MA) The world of public management is changing dramatically, fueled by technological innovations such as the Internet, globalism that permits us to outsource functions anywhere in the world, new ideas from network theory, and more. Public

managers no longer are unitary leaders of unitary organizations - instead, they often find themselves convening, negotiating, mediating, and collaborating across borders."Big Ideas in Collaborative Public Management" brings together a rich variety of big picture perspectives on collaborative public management. The chapters are all original and written by distinguished experts. Designed for practical application, they range from examinations of under what conditions collaborative public management occurs to what it means to be a collaborative leader.The contributors address tough issues such as legitimacy building in networks, and discuss ways to engage citizens in collaboration. They examine the design of collaborative networks and the outcomes of collaboration. Detailed introductory and concluding chapters by the editors summarize and critique the chapters, and frame them as a reflection of the state of collaborative public management today.

Handbook of Research on Lessons Learned From Transitioning to Virtual Classrooms During a Pandemic

National Academies Press

The goal of

this study was to assess the value and feasibility of developing and implementing content standards for engineering education at the K-12 level. Content standards have been developed for three disciplines in STEM education-science, technology, and mathematic-but not for engineering. To date, a small but growing number of K-12 students are being exposed to engineering-related materials, and limited but intriguing evidence suggests that engineering education can stimulate interest and improve learning in mathematics and science as well as improve understanding of engineering and technology. Given this background, a reasonable question is whether standards would improve the quality and increase the amount of teaching and learning of engineering in K-12 education. The book concludes that, although it is theoretically possible to develop standards for K-12 engineering education, it would be extremely difficult to ensure their usefulness and effective implementatio n. This conclusion is supported by the following findings: (1) there is relatively limited experience

with K-12 engineering education in U.S. elementary and secondary schools, (2) there is not at present a critical mass of teachers qualified to deliver engineering instruction, (3) evidence regarding the impact of standards-based educational reforms on student learning in other subjects, such as mathematics and science, is inconclusive, and (4) there are significant barriers to introducing stand-alone standards for an entirely new content area in a curriculum already burdened with learning goals in more established domains of study. **Strengthening Forensic Science in the United States** Why Greatness Cannot Be Planned Persuasive Legal Writing offers complete instruction, exercises, and examples to teach students how to frame and assert arguments. Starting with an introduction to classical rhetorical devices and the psychology of persuasion, the authors explore every aspect of persuasive writing, from structuring sentences and paragraphs to writing style, tone, storytelling, audience analysis, the ethics of argument, and citing authorities. This concise books features consistent emphasis on

the three keys to persuasive writing: writing simply and clearly; arguing ethically; writing for the audience and offers information on how to use all parts of a brief to frame and assert an argument. Key New Features A new chapter on applying storytelling principles to legal argument A new chapter on using visuals in support of persuasive arguments New examples of empirical studies and analysis that support the lessons throughout the book New examples of particularly appealing use of language in Appendix A

Innovative Internet Computing Systems IGI Global

This book constitutes the refereed proceedings of the 7th International Workshop on Distributed Computing, IWDC 2004, held in Kharagpur, India in December 2005. The 28 revised full papers and 33 revised short papers presented together with 5 invited keynote talks were carefully reviewed and selected from 253 submissions. The papers are organized in topical sections on theory of distributed computing, sensor networks, fault tolerance, optical networks, peer-to-peer networks, wireless networks, network security, grid and networks, middleware

and data management, mobility management, and distributed artificial intelligence. *Disaster Resiliency* CRC Press Introduction to Kinesiology, Second Edition, provides a comprehensive, reader-friendly overview of kinesiology, laying a solid foundation for future learning and for working as a professional in any field relating to physical activity. This new edition is significantly updated and revamped, featuring these additions: - Expanded information and advice on careers relating to the field of kinesiology, including short- and long-term employment opportunities, allowing students to benefit from an inclusive and accurate job outlook early in their college careers -New schematics and visual effects to help students better understand the content, including more relevant photos to illustrate text points and new artwork to help clarify important conceptual connections - New profiles featuring significant scholars in the field -New and improved sidebars, interactive items, and key points to engage students more deeply and to acquaint them with relevant issues and problems Introduction to Kinesiology, Second

Edition, contains updated research, statistics, and discussion focusing on practical applications in the field and offering advice about each profession in kinesiology. These features will help students identify and work toward attaining their career goals. The text uses a visually appealing pedagogical approach, including key points and interactive items as well as opening scenarios of real-world dilemmas encountered by professionals in the field, objectives, summaries, key terms, and a glossary. The new edition reinforces readers' learning through both text and graphic features. Part I, Experiencing Physical Activity, provides an extensively rewritten introduction to the field of kinesiology and goes into greater detail on exercise and skilled movement. It also delves into physical activity participation patterns, updated information on the relevance of physical activity to daily living, and how various professionals in the field incorporate physical activity into their educational, developmental, and treatment programs. Part II, Scholarly Study of Physical Activity, with chapters on

subdisciplines, has been reorganized and simplified, making those topics easier to comprehend. It includes greater coverage of physical education as a career pursuit and features chapters from several new collaborators, adding to the richness of the text's perspective and insight. Part III, Practicing a Profession in Physical Activity, includes a new chapter on careers in coaching and sport instruction and an updated chapter on therapeutic exercise, with information on careers in physical and occupational therapy. This new edition improves on the already-solid foundation of learning laid in the first edition. Its superior content and reasonable price make this text an ideal choice for undergraduate kinesiology courses.

The Profession of Modeling and Simulation

Houghton Mifflin Harcourt

Most people are baffled by how computers work and assume that they will never understand them. What they don't realize -- and what Daniel Hillis's short book brilliantly demonstrates -- is that computers' seemingly complex operations can be broken down into a few simple parts that perform the same simple

procedures over and over again. Computer wizard Hillis offers an easy-to-follow explanation of how data is processed that makes the operations of a computer seem as straightforward as those of a bicycle. Avoiding technobabble or discussions of advanced hardware, the lucid explanations and colorful anecdotes in The Pattern on the Stone go straight to the heart of what computers really do. Hillis proceeds from an outline of basic logic to clear descriptions of programming languages, algorithms, and memory. He then takes readers in simple steps up to the most exciting developments in computing today -- quantum computing, parallel computing, neural networks, and self-organizing systems. Written clearly and succinctly by one of the world's leading computer scientists, The Pattern on the Stone is an indispensable guide to understanding the workings of that most ubiquitous and important of machines: the computer.

Break the Bodies, Haunt the Bones Gallic Books

Internet-based business transactions can be broken down into a series of independent steps. This workflow often involves tools from an array of fields, such as network modeling, scheduling, distributed systems,

artificial intelligence, software agents, and Java. This book serves as a single, comprehensive resource for IT practitioners and students that covers all these vital aspects of workflow management. Essentials of Metaheuristics (Second Edition) MIT Press Authorship Attribution surveys the history and present state of the discipline, presenting some comparative results where available. It also provides a theoretical and empirically-tested basis for further work. Many modern techniques are described and evaluated, along with some insights for application for novices and experts alike. *Big Ideas in Collaborative Public Management* Human Kinetics Publishers No teacher is the best that she or he can be from the first day in the classroom. It is with time and experience that we develop skill and knowledge and learn the art of teaching. Colleen N. Thrailkill, Ed.D., who taught more than three decades, shares a wide-ranging collection of techniques geared to help teach elementary students math, reading, and a sense of environmental responsibility in this book. She also explores how

to: - take advantage of teachable moments; - meet the needs of every learner; - bring real-world problem solving into the classroom. This book is packed with curriculum ideas, teaching philosophy, and practical strategies for navigating teacher life. It will serve as a valuable resource for student teachers, beginning teachers, and veteran teachers. Join the author as she looks back on the obstacles she overcame in fulfilling her dream of teaching children-and shares lessons to help other educators succeed. Expenditures for Scientific and Engineering Activities at Universities and Colleges CRC Press Understanding how the shape of a three dimensional object may be recovered from shading in a two-dimensional image of the object is one of the most important - and still unresolved - problems in machine vision. Although this important subfield is now in its second decade, this book is the first to provide a comprehensive review of shape from shading. It brings together all of the seminal papers on the subject, shows how recent work relates to more traditional approaches, and provides a comprehensive annotated bibliography. The book's 17

chapters cover: Surface Descriptions from Stereo and Shading. Shape and Source from Shading. The Eikonal Equation: some Results Applicable to Computer Vision. A Method for Enforcing Integrability in Shape from Shading Algorithms. Obtaining Shape from Shading Information. The Variational Approach to Shape from Shading. Calculating the Reflectance Map. Numerical Shape from Shading and Occluding Boundaries. Photometric Invariants Related to Solid Shape. Improved Methods of Estimating Shape from Shading Using the Light Source Coordinate System. A Provably Convergent Algorithm for Shape from Shading. Recovering Three Dimensional Shape from a Single Image of Curved Objects. Perception of Solid Shape from Shading. Local Shading Analysis Pentland. Radarclinometry for the Venus Radar Mapper. Photometric Method for Determining Surface Orientation from Multiple Images. Berthold K. P. Horn is Professor of Electrical Engineering and Computer Science at MIT. He has presided over the field of machine vision for more than a decade and is the author of Robot Vision.

Michael Brooks is Reader in Computer Science at The Flinders University of South Australia. Shape from Shading is included in the Artificial Intelligence series, edited by Michael Brady, Daniel Bobrow, and Randall Davis.

Persuasive Legal Writing Basic Books

Many books and courses tackle natural language processing (NLP) problems with toy use cases and well-defined datasets. But if you want to build, iterate, and scale NLP systems in a business setting and tailor them for particular industry verticals, this is your guide. Software engineers and data scientists will learn how to navigate the maze of options available at each step of the journey. Through the course of the book, authors Sowmya Vajjala, Bodhisattwa Majumder, Anuj Gupta, and Harshit Surana will guide you through the process of building real-world NLP solutions embedded in larger product setups. You'll learn how to adapt your solutions for different industry verticals such as healthcare, social media, and retail. With this book, you'll: Understand the wide spectrum of problem statements, tasks, and solution approaches within NLP Implement and evaluate

different NLP applications using machine learning and deep learning methods Fine-tune your NLP solution based on your business problem and industry vertical Evaluate various algorithms and approaches for NLP product tasks, datasets, and stages Produce software solutions following best practices around release, deployment, and DevOps for NLP systems Understand best practices, opportunities, and the roadmap for NLP from a business and product leader's perspective

Academic Science, Scientists and Engineers Springer

Why does modern life revolve around objectives? From how science is funded, to improving how children are educated -- and nearly everything in-between -- our society has become obsessed with a seductive illusion: that greatness results from doggedly measuring improvement in the relentless pursuit of an ambitious goal. In Why Greatness Cannot Be Planned, Stanley and Lehman begin with a surprising scientific discovery in artificial intelligence that leads ultimately to the conclusion that the objective obsession has gone too far. They make

the case that great achievement can't be bottled up into mechanical metrics; that innovation is not driven by narrowly focused heroic effort; and that we would be wiser (and the outcomes better) if instead we whole-heartedly embraced serendipitous discovery and playful creativity. Controversial at its heart, yet refreshingly provocative, this book challenges readers to consider life without a destination and discovery without a compass.

Hell's Gate

O'Reilly Media

Online instruction is rapidly expanding the way administrators and educators think about and plan instruction. In addition, due to a pandemic, online instructional practices and learning in a virtual environment are being implemented with very little training or support. Educators are learning new tools and strategies at a quick pace, and often on their own, even through resistance. It is important to explore lessons learned through the pandemic but also of importance is sharing the virtual classroom options and instruction that align to best practices when transitioning to online instruction. Sharing these will allow educators to understand

and learn that virtual instruction can benefit all, even when not used out of need, and can enhance face-to-face courses in many ways. The Handbook of Research on Lessons Learned From Transitioning to Virtual Classrooms During a Pandemic is a critical reference that presents lessons instructors have learned throughout the COVID-19 pandemic including what programs and tools were found to be the most impactful and useful and how to effectively embed virtual teaching into face-to-face teaching. With difficult choices to be made and implemented, this topic and collection of writings demonstrates the learning curve in a state of survival and also lessons and resources learned that will be useful when moving back to face-to-face instruction as a tool to continue to use. Highlighted topics include the frustrations faced during the transition, lessons learned from a variety of viewpoints, resources found and used to support instruction, online learner perspectives and thoughts, online course content, and best practices in transitioning to online instruction. This book is ideal for teachers, principals, school leaders,

instructional designers, curriculum developers, higher education professors, pre-service teachers, in-service teachers, practitioners, researchers, and anyone interested in developing more effective virtual and in-classroom teaching methods.

The Pattern On The Stone John Wiley & Sons Why Greatness Cannot Be PlannedSpringer

Principles of Computer System Design Springer Science & Business Media Principles of Computer System Design is the first textbook to take a principles-based approach to the computer system design. It identifies, examines, and illustrates fundamental concepts in computer system design that are common across operating systems, networks, database systems, distributed systems, programming languages, software engineering, security, fault tolerance, and architecture. Through carefully analyzed case studies from each of these disciplines, it demonstrates how to apply these concepts to tackle practical system design problems. To support the focus on design, the text identifies and explains abstractions that have proven

successful in practice such as remote procedure call, client/service organization, file systems, data integrity, consistency, and authenticated messages. Most computer systems are built using a handful of such abstractions. The text describes how these abstractions are implemented, demonstrates how they are used in different systems, and prepares the reader to apply them in future designs. The book is recommended for junior and senior undergraduate students in Operating Systems, Distributed Systems, Distributed Operating Systems and/or Computer Systems Design courses; and professional computer systems designers. Features: Concepts of computer system design guided by fundamental principles. Cross-cutting approach that identifies abstractions common to networking, operating systems, transaction systems, distributed systems, architecture, and software engineering. Case studies that make the abstractions real: naming (DNS and the URL); file systems (the UNIX file system); clients and services (NFS); virtualization (virtual machines); scheduling

(disk arms); security (TLS). Numerous pseudocode fragments that provide concrete examples of abstract concepts. Extensive support. The authors and MIT OpenCourseW are provide on-line, free of charge, open educational resources, including additional chapters, course syllabi, board layouts and slides, lecture videos, and an archive of lecture schedules, class assignments, and design projects. Computer Science Now Publishers Inc Statistical Foundations of Data Science gives a thorough introduction to commonly used statistical models, contemporary statistical machine learning techniques and algorithms, along with their mathematical insights and statistical theories. It aims to serve as a graduate-level textbook and a research monograph on high-dimensional statistics, sparsity and covariance learning, machine learning, and statistical inference. It includes ample exercises that involve both theoretical studies as well as empirical applications. The book begins with an introduction to the stylized features of big data and their impacts on statistical analysis. It then introduces

multiple linear regression and expands the techniques of model building via nonparametric regression and kernel tricks. It provides a comprehensive account on sparsity explorations and model selections for multiple regression, generalized linear models, quantile regression, robust regression, hazards regression, among others. High-dimensional inference is also thoroughly addressed and so is feature screening. The book also provides a comprehensive account on high-dimensional covariance estimation, learning latent factors and hidden structures, as well as their applications to statistical estimation, inference, prediction and machine learning problems. It also introduces thoroughly statistical machine learning theory and methods for classification, clustering, and prediction. These include CART, random forests, boosting, support vector machines, clustering algorithms, sparse PCA, and deep learning. Why Greatness Cannot Be Planned John Wiley & Sons The definite guide to the theory, knowledge, technical expertise, and ethical considerations that define the M&S

profession From traffic control to disaster management, supply chain analysis to military logistics, healthcare management to new drug discovery, modeling and simulation (M&S) has become an essential tool for solving countless real-world problems. M&S professionals are now indispensable to how things get done across virtually every aspect of modern life. This makes it all the more surprising that, until now, no effort has been made to systematically codify the core theory, knowledge, and technical expertise needed to succeed as an M&S professional. This book brings together contributions from experts at the leading edge of the modeling and simulation profession, worldwide, who share their priceless insights into issues which are fundamental to professional success and career development in this critically important field. Running as a common thread throughout the book is an emphasis on several key aspects of the profession, including the essential body of knowledge underlying the M&S profession; the technical discipline of M&S; the ethical standards that should guide professional conduct; and

the economic and commercial challenges today's M&S professionals face. • Demonstrates applications of M&S tools and techniques in a variety of fields—such as engineering, operations research, and cyber environments—with over 500 types of simulations • Highlights professional and academic aspects of the field, including preferred programming languages, professional academic and certification programs, and key international societies • Shows why M&S professionals must be fully versed in the theory, concepts, and tools needed to address the challenges of cyber environments The Profession of Modeling and Simulation is a valuable resource for M&S practitioners, developers, and researchers working in industry and government. Simulation professionals, including administrators, managers, technologists, faculty members, and scholars within the physical sciences, life sciences, and engineering fields will find it highly useful, as will students planning to pursue a career in the M&S profession. " …nearly three dozen experts in Modeling and Simulation (M&S) come together to make a compelling case for the

recognition of M&S as a profession... Important reading for anyone seeking to elevate the standing of this vital field." Alfred (Al) Grasso, President & CEO, The MITRE Corporation Andreas Tolk, PhD, is Technology Integrator for the Modeling, Simulation, Experimentation, and Analytics Division of The MITRE Corporation, an adjunct professor in the Department of Engineering Management and Systems Engineering and the Department for Modeling, Simulation, and Visualization Engineering at Old Dominion University, and an SCS fellow. Tuncer Ören, PhD, is Professor Emeritus of Computer Science at the University of Ottawa. He is an SCS fellow and an inductee to SCS Modeling and Simulation Hall of Fame. His research interests include advancing methodologies, ethics, body of knowledge, and terminology of modeling and simulation. Addison-Wesley Professional Traditionally, scientific fields have defined boundaries, and scientists work on research problems within those boundaries. However, from time to time those boundaries get shifted or blurred to evolve new fields. For instance, the original goal of computer

vision was to understand a single image of a scene, by identifying objects, their structure, and spatial arrangements. This has been referred to as image understanding . Recently, computer vision has gradually been making the transition away from understanding single images to analyz ing image sequences, or video understanding . Video understanding deals with understanding of video sequences, e. g. , recognition of gestures, activities, fa cial expressions, etc. The main shift in the classic paradigm has been from the recognition of static objects in the scene to motion-based recognition of actions and events. Video understanding has overlapping research problems with other fields, therefore blurring the fixed boundaries. Computer graphics, image processing, and video databases have obvious overlap with computer vision. The main goal of computer graphics is to gener ate and animate realistic looking images, and videos. Researchers in computer graphics are increasingly employing techniques from computer vision to gener ate the synthetic imagery. A good example of this is image-based rendering and

modeling techniques, in which geometry, appearance, and lighting is de rived from real images using computer vision techniques. Here the shift is from synthesis to analysis followed by synthesis. *Video Registration* Morgan Kaufmann New focused text introduces readers to wetland ecosystems and systems approaches to studying wetlands With its comprehensiv e coverage of wetland science, management, and restoration, Mitsch and Gosselink's Wetlands has been the premier reference on wetlands for more than two decades. Now, the coverage of specific wetland ecosystem types from earlier editions of this acclaimed work has been updated, revised, and supplemented with additional content in order to create this new text focusing exclusively on wetland ecosystems. This book now complements Wetlands, Fourth Edition. Following an introduction to ecosystems in general and wetland ecosystems in particular, Wetland Ecosystems examines the major types of wetlands found throughout the world: coastal wetlands, freshwater marshes and forested swamps, and peatlands. The

final chapter reviews three fundamental systems approaches to studying wetlands: mesocosms, full-scale experimental ecosystems, and mathematical modeling. This new text features: Updated descriptions of the hydrology, biogeochemistry, and biology of the main types of wetlands found in the world New content introducing general ecosystems, wetland ecosystems, whole ecosystem and mesocosm experiments with wetlands, and systems ecology and modeling A detailed description of the ecosystem services provided by wetlands A broad international scope, including many examples of wetlands located outside North America Two new coauthors offering new perspectives and additional insights into the latest ecosystem and modeling techniques An abundance of illustrations helps readers understand how different biological communities and the abiotic environment in wetland ecosystems interact and function. Tables and text boxes provide at-a-glance summaries of key information. Lastly, each chapter concludes with a list of recommended readings. This text has been designed as an

introduction for students and professionals in wetland ecology and management, general ecology, environmental science, and natural resource management.

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