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**EMOOCs 2021** Julien Jacqmin 2021 From June 22 to June 24, 2021, Hasso Plattner Institute, Potsdam, hosted the seventh European MOOC Stakeholder Summit (EMOOCs 2021) together with the eighth ACM Learning@Scale Conference. Due to the COVID-19 situation, the conference was held fully online. The boost in digital education worldwide as a result of the pandemic was also one of the main topics of this year's EMOOCs. All institutions of learning have been forced to transform and redesign their educational methods, moving from traditional models to hybrid or completely online models at scale. The learnings, derived from practical experience and research, have been explored in EMOOCs 2021 in six tracks and additional workshops, covering various aspects of this field. In this publication, we present papers from the conference's Experience Track, the Policy Track, the Business Track, the International Track, and the Workshops.

*Recent Advances in Natural Products Analysis* Seyed Mohammad Nabavi 2020-03-18 *Recent Advances in Natural Products Analysis* is a thorough guide to the latest analytical methods used for identifying and studying bioactive phytochemicals and other natural products. Chemical compounds, such as flavonoids, alkaloids, carotenoids and saponins are examined, highlighting the many techniques for studying their properties. Each chapter is devoted to a compound category, beginning with the underlying chemical properties of the main components followed by techniques of extraction, purification and fractionation, and then techniques of identification and quantification. Biological activities, possible interactions, levels found in plants, the effects of processing, and current and potential industrial applications are also included. Focuses on the latest analytical techniques used for studying phytochemical and other biological compounds Authored and edited by the top worldwide experts in their field Discusses the current and potential applications and predicts future trends of each compound group

*Shaping the Digital Dissertation* Virginia Kuhn 2021-05-04 This volume is a timely intervention that not only helps demystify the idea of a digital dissertation for students and their advisors, but will be broadly applicable to the work of librarians, administrators, and anyone else concerned with the future of graduate study in the humanities and digital scholarly publishing. Roxanne Shirazi, The City University of New York Digital dissertations have been a part of academic research for years now, yet there are still many questions surrounding their processes. Are interactive dissertations significantly different from their paper-based

counterparts? What are the effects of digital projects on doctoral education? How does one choose and defend a digital dissertation? This book explores the wider implications of digital scholarship across institutional, geographic, and disciplinary divides. The volume is arranged in two sections: the first, written by senior scholars, addresses conceptual concerns regarding the direction and assessment of digital dissertations in the broader context of doctoral education. The second section consists of case studies by PhD students whose research resulted in a natively digital dissertation that they have successfully defended. These early-career researchers have been selected to represent a range of disciplines and institutions. Despite the profound effect of incorporated digital tools on dissertations, the literature concerning them is limited. This volume aims to provide a fresh, up-to-date view on the digital dissertation, considering the newest technological advances. It is especially relevant in the European context where digital dissertations, mostly in arts-based research, are more popular. *Shaping the Digital Dissertation* aims to provide insights, precedents and best practices to graduate students, doctoral advisors, institutional agents, and dissertation committees. As digital dissertations have a potential impact on the state of research as a whole, this edited collection will be a useful resource for the wider academic community and anyone interested in the future of doctoral studies.

*Nonlinear Dynamical Systems and Chaos* H.W. Broer 2013-11-11 Symmetries in dynamical systems, "KAM theory and other perturbation theories", "Infinite dimensional systems", "Time series analysis" and "Numerical continuation and bifurcation analysis" were the main topics of the December 1995 Dynamical Systems Conference held in Groningen in honour of Johann Bernoulli. They now form the core of this work which seeks to present the state of the art in various branches of the theory of dynamical systems. A number of articles have a survey character whereas others deal with recent results in current research. It contains interesting material for all members of the dynamical systems community, ranging from geometric and analytic aspects from a mathematical point of view to applications in various sciences.

**The Connected Family** Seymour Papert 1996 Discusses the advantages and pitfalls of using computers in childhood education, and suggests ways parents can help children who are more computer-literate than they

*Fundamentals of Linear Algebra* Katsumi Nomizu 1966

**The Industrial Arts Index** 1914

**Critical Analysis of Science Textbooks** Myint Swe Khine 2013-06-26 The critical analysis of science textbooks is vital in improving teaching and learning at all levels in the subject, and this volume sets out a range of academic perspectives on how that analysis should be done. Each chapter focuses on an aspect of science textbook appraisal, with coverage of everything from theoretical and philosophical underpinnings, methodological issues, and conceptual frameworks for critical analysis, to practical techniques for evaluation. Contributions from many of the most distinguished scholars in the field give this collection its sure-footed contemporary relevance, reflecting the international standards of UNESCO as well as leading research organizations such as the American Association for the Advancement of Science (whose Project 2061 is an influential waypoint in developing protocols for textbook analysis). Thus the book shows how to gauge aspects

of textbooks such as their treatment of controversial issues, graphical depictions, scientific historiography, vocabulary usage, accuracy, and readability. The content also covers broader social themes such as the portrayal of women and minorities. "Despite newer, more active pedagogies, textbooks continue to have a strong presence in classrooms and to embody students' socio-historical inheritance in science. Despite their ubiquitous presence, they have received relatively little on-going empirical study. It is imperative that we understand how textbooks influence science learning. This book presents a welcome and much needed analysis." Tina A. Grotzer Harvard University, Cambridge, Massachusetts, USA The present book provides a much needed survey of the current state of research into science textbooks, and offers a wide range of perspectives to inform the 'science' of writing better science textbooks. Keith S Taber University of Cambridge, Cambridge, United Kingdom

*Topics in Engineering Mathematics* A.H. van der Burgh 2012-12-06 This volume presents a selection of expository papers on various topics in engineering mathematics. The papers concern model problems relating to, amongst others, the automobile and shipping industries, transportation networks and wave propagation. Among the methods treated are numerical methods, such as the finite element method and Newton's method, Karmarkar's interior point method and generalizations, and recurrence and induction in computer science. This volume will be of great interest to applied mathematicians, physicists and engineers interested in recent developments in engineering mathematics. The papers are written with an emphasis on exposition and should be accessible to all members of scientific community interested in modeling and solving real-life problems.

Connected Code Yasmin B. Kafai 2016-09-02 Why every child needs to learn to code: the shift from "computational thinking" to computational participation. Coding, once considered an arcane craft practiced by solitary techies, is now recognized by educators and theorists as a crucial skill, even a new literacy, for all children. Programming is often promoted in K-12 schools as a way to encourage "computational thinking"—which has now become the umbrella term for understanding what computer science has to contribute to reasoning and communicating in an ever-increasingly digital world. In *Connected Code*, Yasmin Kafai and Quinn Burke argue that although computational thinking represents an excellent starting point, the broader conception of "computational participation" better captures the twenty-first-century reality. Computational participation moves beyond the individual to focus on wider social networks and a DIY culture of digital "making." Kafai and Burke describe contemporary examples of computational participation: students who code not for the sake of coding but to create games, stories, and animations to share; the emergence of youth programming communities; the practices and ethical challenges of remixing (rather than starting from scratch); and the move beyond stationary screens to programmable toys, tools, and textiles.

*From Leibniz to Kant* Katherine Laura Dunlop 2019-02-22 G.W. Leibniz's legacy to philosophy is extraordinary for his vast body of work, for his originality and prescience, and for his influence. The aim of this volume is to provide a state-of-the-art exploration of Leibniz's philosophy and its legacy, especially in the period up to Kant. The essays collected here offer new insights into signature elements of Leibniz's thought – the theory of contingency, anti-materialism, the principle of sufficient reason, the metaphysics of substance, and his philosophy of mind – as well as the influence of predecessors such as Lull, Descartes, and Malebranche,

the reckoning of his ideas in the works of Wolff and Kant, and the contributions of Clarke, Baumgarten, Meier, Du Châtelet, and others to the content, transmission, and reception of Leibnizian philosophy.

Gramsci and Global Politics Mark McNally 2009-03-09 The aim of this book is to explain and assess the relevance of the ideas of Gramsci to a world fundamentally transformed from that in which his thought was developed. It takes some of Gramsci's best-known concepts – hegemony, civil society, passive revolution, the national-popular, trasformismo, the integral state - and uses them creatively to analyse features of present-day politics, assessing to what extent his ideas can aid our understanding of the contemporary political world. The book contains essays focused on: aspects of global politics (the development of a global civil society, the validity of the knowledge claims of neo-Gramscian IR specialists and the politics of the WTO and the Alternative Globalisation Movement); contemporary feminism; the problem of adjusting Gramsci's theory of political agency to modern conditions; Turkish and Israeli politics; and a series of essays on present-day British politics. The book concludes that while there remain considerable problems in applying Gramsci's concepts to the contemporary world, his political thought still retains an attraction and validity that will continue to inspire political analysts well into the future. Bringing together a range of essays representing some of the latest research in the field, *Gramsci and Global Politics: Hegemony and Resistance* opens up new perspectives on Gramsci which will be of vital interest to students and scholars in International Relations and Political Science, Sociology and History.

*Doing Quantitative Research in Education with SPSS* Daniel Muijs 2010-12-10 This accessible and authoritative introduction is essential for education students and researchers needing to use quantitative methods for the first time. Using datasets from real-life educational research and avoiding the use of mathematical formulae, the author guides students through the essential techniques that they will need to know, explaining each procedure using the latest version of SPSS. The datasets can also be downloaded from the book's website, enabling students to practice the techniques for themselves. This revised and updated second edition now also includes more advanced methods such as log linear analysis, logistic regression, and canonical correlation. Written specifically for those with no prior experience of quantitative research, this book is ideal for education students and researchers in this field.

*Design Representation* Gabriela Goldschmidt 2007-05-28 "...there is a global network of academics, researchers and methodologists who will buy this book or want it in their institute libraries." Prof. John Harbraken "As the field of human computer interaction grows, this book is likely to be a basic resource." Prof. Chuck Eastman Design representation is necessary for all design activity. You will gain a guide to both theory and practical application in this discussion of representation as it occurs during the process of design. Goldschmidt and Porter give you perspectives on representational issues in design that are both informative and evocative of further inquiry. The unique interdisciplinary approach brings a new dimension to the study of representation, benefiting the global network of researchers, students and practitioners in all areas of design. Rather than addressing the larger framework directly, a series of smaller case studies are presented, each dealing with aspects of representation in architecture and engineering. Binding together historical-cultural, cognitive-social and technological perspectives eliminates the need for further reading. Innovative research methods based on

numerous well-illustrated examples will leave you with new ideas to build on. International contributors focus on worldwide research activities, offering you more than just an expansion of a single viewpoint. Design Representation delves into the common roots of representation in all design disciplines through case studies, historical investigations, theoretical constructs and programming. If you are involved in any design activity, this will be a truly exciting addition to your bookshelf.

**Digital Citizenship in Schools, Second Edition** Mike Ribble 2011-09-21 Digital Citizenship in Schools, Second Edition is an essential introduction to digital citizenship. Starting with a basic definition of the concept and an explanation of its relevance and importance, author Mike Ribble goes on to explore the nine elements of digital citizenship. He provides a useful audit and professional development activities to help educators determine how to go about integrating digital citizenship concepts into the classroom. Activity ideas and lesson plans round out this timely book.

**The Book of Dede Korkut** Geoffrey Lewis 2011-11-03 The Book of Dede Korkut is a collection of twelve stories set in the heroic age of the Oghuz Turks, a nomadic tribe who had journeyed westwards through Central Asia from the ninth century onwards. The stories are peopled by characters as bizarre as they are unforgettable: Crazy Karchar, whose unpredictability requires an army of fleas to manage it; Kazan, who cheerfully pretends to necrophilia in order to escape from prison; the monster Goggle-eye; and the heroine Chichek, who shoots, races on horseback and wrestles her lover. Geoffrey Lewis's classic translation retains the odd and oddly appealing style of the stories, with their mixture of the colloquial, the poetic and the dignified, and magnificently conveys the way in which they bring to life a wild society and its inhabitants. This edition also includes an introduction, a map and explanatory notes.

**Teacher Education in Taiwan** Shen-Keng Yang 2016-04-14 Since the Teacher Education Act was in place in 1994, student teachers were educated through diverse educational institutions instead of the traditional normal schools (Taiwan's equivalent of teachers' colleges). But such market-based teacher education has been altered by politics, society and culture in the direction of government-controlled teacher education, particularly in the quality evaluation of teacher education. Taiwan maintains teacher education quality by controlling the number of teachers, using teacher assessment to eliminate teachers who are not up to standard, evaluating teacher education institutions, evaluating professional development of teachers to raise elementary and secondary teacher quality. This book uses Taiwan as a case study to analyze the transformation of teacher education in a country which goes through political, economic and societal transitions, along the axis of state regulation vs marketization. It analyzes the uniqueness of Taiwanese teacher education for international reference, and draws implications for teacher education policies in the context of education reform. The Formation of Two Approaches to Teacher Education Teacher Education Policy and Policy Direction in Taiwan The Ideology, Implications, Applications of Teacher Profession Standards The Teacher Education Strategic Alliances in Taiwan This book will interest policy makers, researchers and students in the field of education, especially in teacher education and comparative education.

*Critical Technology Issues for School Leaders* Susan Brooks-Young 2006-04-12 "Ever-changing technology and

a generation of "digital-native" students challenge educators to keep pace, especially in preparing students for a successful future in an increasingly technologically advanced world. Well-known technology specialist and consultant Susan Brooks-Young emphasizes that incorporating effective, regular use of technology as a tool for teaching and learning is imperative if we want to "stay in the game." In this new book, Brooks-Young gathers her most popular and insightful work into a collection of practical technology strategies for issues most critical to busy school leaders. The book is organized into the following four sections, each focusing on a different aspect of technology leadership: New Literacies: the latest technology advances and opportunities for integration in schools Engaging Teachers and Students: tools and strategies for professional development, establishing a Web presence, classroom blogs, and distance learning Providing a Reliable Infrastructure: tech-ready facilities, cost management, software and networks, and the role of technology coordinators Legal and Social Concerns: Internet safety and security, precautions, copyright and plagiarism concerns, home-school communications, and much more School leaders will find detailed and concise information, extensive resources, and reflective questions for personal use or group discussion. This comprehensive, straightforward guide provides all the tools needed for effective technology leadership."--Publisher's website.

*Choosing Your Coursebook* Alan Cunningsworth 1995

**Informatics in schools : local proceedings of the 6th International Conference ISSEP 2013 ; selected papers ; Oldenburg, Germany, February 26–March 2, 2013** Ira Diethelm 2013 The International Conference on Informatics in Schools: Situation, Evolution and Perspectives - ISSEP - is a forum for researchers and practitioners in the area of Informatics education, both in primary and secondary schools. It provides an opportunity for educators to reflect upon the goals and objectives of this subject, its curricula and various teaching/learning paradigms and topics, possible connections to everyday life and various ways of establishing Informatics Education in schools. This conference also cares about teaching/learning materials, various forms of assessment, traditional and innovative educational research designs, Informatics' contribution to the preparation of children for the 21st century, motivating competitions, projects and activities supporting informatics education in school.

**The Theoretical and Conceptual Bases of Instructional Design** Rita Richey 1986

*Science Education in Context* Richard K. Coll 2019-02-18 This book presents an international perspective of the influence of educational context on science education. The focus is on the interactions between curriculum development and implementation, particularly in non-Western and non-English-speaking contexts (i.e., outside the UK, USA, Australia, NZ, etc. ).

*Matrix Methods* Richard Bronson 2014-05-10 *Matrix Methods: An Introduction* is a nine-chapter text that emphasizes the methodological aspects of mathematical matrices. This book is intended for an introductory course in matrices similar to those given to sophomore and junior engineering students at Fairleigh Dickinson University. The first five chapters deal with the elementary aspects of matrices, including their definition, determinants, method of inversion, simultaneous linear equations, eigenvalues, and eigenvectors. The

remaining chapters explore the materials of fundamental importance to both engineers and scientists. These chapters discuss the principles of matrix calculus, linear differential equations, Jordan canonical forms, and special matrices. A set of exercises is provided at the end of each section, which is basically routine in nature and serves primarily to enhance the reader's ability to use the methods just presented. On occasion, problems are assigned that will extend or complete topics previously introduced. This book is intended primarily for science, engineering, and applied mathematics students.

**Models and Modeling in Engineering Education** 2008-01-01 The book describes how incorporating mathematical modeling activities and projects, that are designed to reflect authentic engineering experience, into engineering classes has the potential to enhance and tap the diverse strengths of students who come from a variety of backgrounds.

*Implementing Standards-based Mathematics Instruction* Mary Kay Stein 2000 Presents prevalent cases of maths instruction drawn from research of classroom lessons. The "Mathematical Tasks Framework", developed by the authors, offers teachers the means to evaluate instructional decisions, choice of materials and learning outcomes.

Urological Pathology Mahul B. Amin 2013-11-14 Knowledge in the field of urologic pathology is growing at an explosive pace. Today's pathologists, specialists, and residents require a comprehensive and authoritative text that examines the full range of urological diseases and their diagnosis. Written by recognized leaders and educators in the field, the text provides readers with a detailed understanding of all diagnostic aspects of urological disease. Inside this unique resource, readers will explore a broad spectrum of practical information—including etiology, diagnostic criteria, molecular markers, differential diagnosis, ancillary tests, and clinical management. This is sure to be the new definitive text for urological pathology!

Exploring E-learning E. Pollard 2001 This guide summarizes current research and commentary on e-learning, examining the key issues facing organizations exploring e-learning for employee development. The guide contains six sections. The first section provides an introduction to the issue of e-learning and a summary of the issues discussed in the remainder of the guide. Section 2 summarizes the various dimensions and descriptions of e-learning, concluding with a definition of e-learning as "the delivery and administration of learning opportunities and support via computer, networked and web-based technology to help individual performance and development." Sections 3 and 4 describe potential benefits and drawbacks of e-learning. Benefits include that e-learning is timely, accessible, learner-centered, cost effective, up-to-date, quick, retainable, risk-free, consistent, interactive and collaborative, easy to track, and that it increases information technology skills. Drawbacks include that e-learning can be technology-dependent, incompatible, unsuitable for some types of training, unsuitable for some types of learners, heavily reliant on self-discipline, less interactive than one would think, initially expensive, still dependent on human support, and difficult to support with content. Section 5 discusses key issues to consider when developing e-learning, including how best to blend new e-learning technologies with traditional classroom approaches to training; whether to buy new off-the-shelf materials, develop content externally or in-house; how best to provide learner support; how trainers will adapt; and how to tell whether the strategy is working. The final section concludes with a summary of the

issues and potential of e-learning. The guide includes a glossary of 13 terms and a resource guide listing 64 reports and articles, 7 websites, and 8 magazines and journals. (KC)

*Sensitive Chaos* Theodor Schwenk 2014-02-03 Why does water always take a winding course in streams and rivers? Do common principles and rhythms underlie its movement - whether it be in the sea, in a plant, or even in the blood of a human being? In this seminal and thought-provoking work, the laws apparent in the subtle patterns of water in movement are shown to be the same as those perceptible in the shaping of bones, muscles and a myriad of other forms in nature. Fully illustrated, *Sensitive Chaos* reveals the unifying forces that underlie all living things. The author observes and explains such phenomena as the flight of birds, the formation of internal organs such as the heart, eye and ear, as well as mountain ranges and river deltas, weather and space patterns, and even the formation of the human embryo.

Modelling and Applications in Mathematics Education Peter L. Galbraith 2007-12-05 The book aims at showing the state-of-the-art in the field of modeling and applications in mathematics education. This is the first volume to do this. The book deals with the question of how key competencies of applications and modeling at the heart of mathematical literacy may be developed; with the roles that applications and modeling may play in mathematics teaching, making mathematics more relevant for students.

*The Tobacco Keeper* Ali Bader 2012-03-15 First published in Arabic in 2008, *The Tobacco Keeper* relates the investigation of the life of a celebrated Jewish Iraqi musician who was expelled to Israel in the 1950s. Having returned to Iraq, via Iran, the musician is thrown out as an Israeli spy. Returning for the third time under a forged passport, he is murdered in mysterious circumstances. Arriving in Baghdad's Green Zone during the US-led occupation, a journalist writing a story about the musician's life discovers an underworld of fake identities, mafias and militias. Even among the journalists, there is a secret world of identity games, fake names and ulterior motives.

**Waste Water** Fernando Sebastián García Einschlag 2011-04-01 The steady increase in industrialization, urbanization and enormous population growth are leading to production of huge quantities of wastewaters that may frequently cause environmental hazards. This makes waste water treatment and waste water reduction very important issues. The book offers a collection of studies and findings concerning waste water treatment, minimization and reuse.

**Course Design** George J. Posner 1982

*Transcriptional Control Mechanisms* Daryl K. Granner 1987

Neurourology Limin Liao 2019-03-11 This book introduce neurourology as an emerging interdisciplinary area that covers the basic and clinical studies of the neural control on the normal lower urinary tract and the lower/upper urinary tract dysfunction due to neuropathy disorders. It systematically describes all aspects of neurourology from the epidemiology of the neurogenic bladder; to the pathology and pathophysiology of the

lower urinary tract; to the diagnosis and treatment of the neurogenic bladder by conservative therapies or surgeries. This book provides a useful resource for medical doctors, nurses and students in the field of neurourological conditions. All the topics are written by internationally recognized specialists in their field.

Metaphors of Education William Taylor 1984

An Agenda for Action National Council of Teachers of Mathematics 1980

*Operations Research Methodologies* A. Ravi Ravindran 2008-11-12 A single source guide to operations research (OR) techniques, this book covers emerging OR methodologies in a clear, concise, and unified manner. Building a bridge between theory and practice, it begins with coverage of fundamental models and methods such as linear, nonlinear, integer, and dynamic programming, networks, simulation, queuing, inventory, stochastic processes, and decision analysis. The book then explores emerging techniques including multiple criteria optimization, meta heuristics, robust optimization, and complexity and large scale networks. Each chapter gives an overview of a particular methodology, illustrates successful applications, and provides references to computer software availability.

Modern Control Systems Richard C. Dorf 2011 *Modern Control Systems*, 12e, is ideal for an introductory undergraduate course in control systems for engineering students. Written to be equally useful for all engineering disciplines, this text is organized around the concept of control systems theory as it has been developed in the frequency and time domains. It provides coverage of classical control, employing root locus design, frequency and response design using Bode and Nyquist plots. It also covers modern control methods based on state variable models including pole placement design techniques with full-state feedback controllers and full-state observers. Many examples throughout give students ample opportunity to apply the theory to the design and analysis of control systems. Incorporates computer-aided design and analysis using MATLAB and LabVIEW MathScript.

Support in Education Chrysta Pelissier 2020-09-10

**Gamification in Learning and Education** Sangkyun Kim 2017-09-19 This book explores the theoretical foundations of gamification in learning and education. It has become increasingly difficult to engage and motivate students. Gamification not only makes learning interesting, but also allows game players to solve problems and learn lessons through repeated attempts and failures. This "positive failure" can motivate students to attempt a difficult mission. Chapters in this volume cover topics such as the definition and characteristics of gamification, gamification in learning and education, theories, research on gamification, framework, strategy, and cases.