Psychological and Pedagogical Considerations in Digital Textbook Use and Development

2015-04-30 Railean, Elena "This book offers balanced coverage of the technological solutions that contribute to the design of digital textbooks and contribute to achieving learning objectives, offering an emphasis on assessment mechanisms and learning theory"--

Handbook of Game-Based Learning

2020-02-04 Jan L. Plass A comprehensive introduction to the latest research and theory on learning and instruction with computer games. This book offers a comprehensive introduction to the latest research on learning and instruction with computer games. Unlike other books on the topic, which emphasize game development or best practices, Handbook of Game-Based Learning is based on empirical findings and grounded in psychological and learning sciences theory. The contributors, all leading researchers in the field, offer a range of perspectives, including cognitive, motivational, affective, and sociocultural. They explore research on whether (and how) computer games can help students learn educational content and academic skills; which game features (including feedback, incentives, adaptivity, narrative theme, and game mechanics) can improve the instructional effectiveness of these games; and applications, including games for learning in STEM disciplines, for training cognitive skills, for workforce learning, and for assessment. The Handbook offers an indispensable reference both for readers with practical interests in designing or selecting effective game-based learning environments and for scholars who conduct or evaluate research in the field. It can also be used in courses related to play, cognition, motivation, affect, instruction, and technology. Contributors Roger Azevedo, Ryan S. Baker, Daphne Bavelier, Amanda E. Bradbury, Ruth C. Clark, Michele D. Dickey, Hamadi Henderson, Bruce D. Homer, Fengfeng Ke, Younsu Kim, Charles E. Kinzer, Eric Klopfer, James C. Lester, Kristina Loderer, Richard E. Mayer, Bradford W. Mott, Nicholas V. Mudrick, Brian Nelson, Frank Nguyen, V. Elizabeth Owen, Shashank Pawar, Reinhard Pekrun, Jan L. Plass, Charles Raffale, Jonathon Reinhardt, C. Scott Rigby, Jonathan P. Rowe, Richard M. Ryan, Ruth N. Schwartz, Quinnipiac Valerie J. Shute, Randall D. Spain, Constance Steinkuehler, Frankie Tam, Michelle Taub, Meredith Thompson, Steven L. Thorne, A. M. Tsaasan

Statistics, Testing, and Defense Acquisition

1998-05-08 National Research Council For every weapons system being developed, the U.S. Department of Defense (DOD) must make a critical decision: Should the system go forward to full-scale production? The answer to that question may involve not only tens of billions of dollars but also the nation's security and military capabilities. In the milestone process used by DOD to answer the basic acquisition question, one component near the end of the process is operational testing, to determine if a system meets the requirements for effectiveness and suitability in realistic battlefield settings. Problems discovered at this stage can cause significant production delays and can necessitate costly system redesign. This book examines the milestone process, as well as the DOD's entire approach to testing and evaluating defense systems. It brings to the topic of defense acquisition the application of scientific statistical principles and practices.

Exploring Implicit Cognition: Learning, Memory, and Social Cognitive Processes

2014-10-31 Jin, Zheng While widely studied, the capacity of the human mind remains largely unexplored. As such, researchers are continually seeking ways to understand the brain, its function, and its impact on human behavior. Exploring Implicit Cognition: Learning, Memory, and Social Cognitive Processes explores research surrounding the ways in which an individual's unconscious is able to influence and impact that person's behavior without their awareness. Focusing on topics pertaining to social cognition and the unconscious process, this title is ideal for use by students, researchers, psychologists, and academicians interested in the latest insights into implicit cognition.

Psycholinguistics and Cognition in Language Processing

2018-03-02 Bu?a, Duygu The relationship between language and psychology is one that has been studied for centuries. Influencing one another, these two fields uncover how the human mind's processes are interrelated. Psycholinguistics and Cognition in Language Processing is a critical scholarly resource that examines the mystery of language and the obscurity of psychology using innovative studies. Featuring coverage on a broad range of topics, such as language acquisition, emotional aspects in foreign language learning, and speech learning model, this book is geared towards linguists, academicians, practitioners, and researchers, seeking current research on the cognitive and emotional synthetisation of multilingualism.

Enhancing Mathematics Understanding through Visualization: The Role of Dynamical Software

2013-05-31 Habre, Samer Mathematics is, by its very nature, an abstract discipline. However, many students learn best by thinking in terms of tangible constructs. Enhancing Mathematics Understanding through Visualization: The Role of Dynamical Software brings these conflicting viewpoints together by offering visual representations as a method of mathematics instruction. The book explores the role of technology in providing access to multiple representations of concepts, using software applications to create a rich environment in which a student sunderstanding of mathematical concepts can flourish. Both students and instructors of mathematics at the university level will use this book to implement various novel techniques for the delivery of mathematical concepts in their classrooms. This book is part of the Research Essential collection.

Cases on the Societal Effects of Persuasive Games

2014-06-30 Ruggiero, Dana "This book investigates the connection between multimedia technologies and game-based learning for an improved understanding of the impact and effectiveness of serious games in modern societies, offering examples from the fields of education, business, healthcare, and more"--Provided by publisher.

Design, Utilization, and Analysis of Simulations and Game-Based Educational Worlds

2013-05-31 Ferdig, Richard E. Games and simulations have emerged as new and effective tools for educational learning by providing interactivity and integration with online resources that are typically unavailable with traditional educational resources. Design, Utilization, and Analysis of Simulations and Game-Based Educational Worlds presents developments and evaluations of games and computer-mediated simulations in order to showcase a better understanding of the role of electronic games in multiple studies. This book is useful for researchers, practitioners, and policymakers to gain a deeper comprehension of the relationship between research and practice of electronic gaming and simulations in the educational environment.

Gender Considerations and Influence in the Digital Media and Gaming Industry

2014-06-30 Prescott, Julie Occupational segregation is an important issue and can be detrimental to women. There is a strong need for more women in science, engineering, and information technology, which are traditionally male dominated fields. Female representation in the computer gaming industry is a potential way to increase the presence of women in other computer-related fields. Gender Considerations and Influence in the Digital Media and Gaming Industry provides a collection of high-quality empirical studies and personal experiences of women working in male-dominated fields with a particular focus on the media and gaming industries. Providing insight on best methods for attracting and retaining women in these fields, this volume is a valuable reference for executives and members of professional bodies who wish to encourage women in their career progression.

Clinical Trial Simulations

2010-12-09 Holly H. C. Kimko This edition includes both updates and new uses and issues concerning CTS, along with case studies of how clinical trial simulations are being applied in various therapeutic and application areas. Importantly, the book expands on the utility of CTS for informing decisions during drug development and regulatory review. Each chapter author was selected on the basis of demonstrated expertise in state-of-the-art application of CTS. The target audience for this volume includes researchers and scientists who wish to consider use of simulations in the design, analysis, or regulatory review and guidance of clinical trials. This book does not embrace all aspects of trial design, nor is it intended as a complete recipe for using computers to design trials. Rather, it is an information source that enables the reader to gain understanding of essential background and knowledge for practical applications of simulation for clinical trial design and analysis. It is assumed that the reader has a working understanding of pharmacokinetics and pharmacodynamics, modeling, pharmacometric analyses, and/or the drug development and regulatory processes.

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