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KEY=3RD - NATALEE VILLEGAS

MODELING WITH TECHNOLOGY

MINDTOOLS FOR CONCEPTUAL CHANGE

Prentice Hall Well-known for addressing the use of computers to foster critical-thinking and problem solving, this text was written to teach current and future teachers how to better engage learners more mindfully and meaningfully in the process of learning. Available now in it's Third Edition, it focuses on how to use technology to support meaningful learning through model building, providing powerful strategies for engaging, supporting, and assessing coonceptual change in learners.

INTERNATIONAL HANDBOOK OF RESEARCH ON CONCEPTUAL CHANGE

Routledge Conceptual change research investigates the processes through which learners substantially revise prior knowledge and acquire new concepts. Tracing its heritage to paradigms and paradigm shifts made famous by Thomas Kuhn, conceptual change research focuses on understanding and explaining learning of the most the most difficult and counter-intuitive concepts. Now in its second edition, the International Handbook of Research on Conceptual Change provides a comprehensive review of the conceptual change movement and of the impressive research it has spawned on students' difficulties in learning. In thirty-one new and updated chapters, organized thematically and introduced by Stella Vosniadou, this volume brings together detailed discussions of key theoretical and methodological issues, the roots of conceptual change research, and mechanisms of conceptual change and learner characteristics. Combined with chapters that describe conceptual change research in the fields of physics, astronomy, biology, medicine and health, and history, this handbook presents writings on interdisciplinary topics written for researchers and students across fields.

LEARNING, PROBLEM SOLVING, AND MINDTOOLS

ESSAYS IN HONOR OF DAVID H. JONASSEN

Routledge Learning, Problem Solving, and Mindtools is inspired by the substantial body of learning research by David H. Jonassen in the areas of mind tools and problem solving. The focus of the volume is on educational technology, especially with regard to how new technologies have facilitated and supported problem solving and critical thinking. Each chapter focuses on a particular aspect of learning with technology and elaborates the implications for the design and implementation of learning environments and activities aimed at improving the conceptualization of problems, reasoning and higher-order thinking, and solving challenging problems. This collection of scholarly essays provides a highly engaging treatment of using tools and technologies to improve problem solving; multiple perspectives on integrating educational technology to support learning in complex and challenging problem solving domains; guidance for the design of instruction to support problem solving; a systemic account of the relationships between mental models, instructional models, and assessment models; and a look into the future of educational technology research and practice.

CONCEPTUAL REVOLUTIONS

FROM COGNITIVE SCIENCE TO MEDICINE

Netbiblo

LEARNING TO SOLVE PROBLEMS

A HANDBOOK FOR DESIGNING PROBLEM-SOLVING LEARNING ENVIRONMENTS

Routledge This book provides a comprehensive, up-to-date look at problem solving research and practice over the last fifteen years. The first chapter describes differences in types of problems, individual differences among problem-solvers, as well as the domain and context within which a problem is being solved. Part one describes six kinds of problems and the methods required to solve them. Part two goes beyond traditional discussions of case design and introduces six different purposes or functions of cases, the building blocks of problem-solving learning environments. It also describes methods for constructing cases to support problem solving. Part three introduces a number of cognitive skills required for studying cases and solving problems. Finally, Part four describes several methods for assessing problem solving. Key features includes: Teaching Focus – The book is not merely a review of research. It also provides specific research-based advice on how to design problem-solving learning environments. Illustrative Cases – A rich array of cases illustrates how to build problem-solving learning environments. Part two introduces six different functions of cases and also describes the parameters of a case. Chapter Integration – Key theories and concepts are addressed across chapters and links to other chapters are made explicit. The idea is to show how different kinds of problems, cases, skills, and assessments are integrated. Author expertise – A prolific researcher and writer, the author has been researching and publishing books and articles on learning to solve problems for the past fifteen years. This book is appropriate for advanced courses in instructional design and technology, science education, applied cognitive psychology, thinking and reasoning, and educational psychology. Instructional designers, especially those involved in designing problem-based learning, as well as curriculum designers who seek new ways of structuring curriculum will find it an invaluable reference tool.

MODEL-BASED APPROACHES TO LEARNING

USING SYSTEMS MODELS AND SIMULATIONS TO IMPROVE UNDERSTANDING AND PROBLEM SOLVING IN COMPLEX DOMAINS

BRILL Model-Based Approaches to Learning provides a new perspective called learning by system modeling. This book explores the learning impact of students when constructing models of complex systems.

PROCEEDINGS OF MAC-ETEL 2015

MULTIDISCIPLINARY ACADEMIC CONFERENCE ON EDUCATION, TEACHING AND E-LEARNING IN PRAGUE 2015

MAC Prague consulting

EMERGING TECHNOLOGIES FOR STEAM EDUCATION

FULL STEAM AHEAD

Springer This theory-to-practice guide offers leading-edge ideas for wide-scale curriculum reform in sciences, technology, engineering, the arts, and mathematics--the STEAM subjects. Chapters emphasize the critical importance of current and emerging digital technologies in bringing STEM education up to speed and implementing changes to curricula at the classroom level. Of particular interest are the diverse ways of integrating the liberal arts into STEM course content in mutually reshaping humanities education and scientific education. This framework and its many instructive examples are geared to ensure that both educators and students can become innovative thinkers and effective problem-solvers in a knowledge-based society. Included in the coverage: Reconceptualizing a college science learning experience in the new digital era. Using mobile devices to support formal, informal, and semi-formal learning. Change of attitudes, self-concept, and team dynamics in engineering education. The language arts as foundational for science, technology, engineering, art, and mathematics. Can K-12 math teachers train students to make valid logical reasoning? Moving forward with STEAM education research. Emerging Technologies for STEAM Education equips educators, education researchers, administrators, and education policymakers with curricular and pedagogical strategies for making STEAM education the bedrock of accessible, relevant learning in keeping with today's digital advances.

FOUNDATIONS OF EDUCATIONAL TECHNOLOGY

INTEGRATIVE APPROACHES AND INTERDISCIPLINARY PERSPECTIVES

Routledge An engaging book for professional educators and an ideal textbook for certificate, masters, and doctoral programs in educational technology, instructional systems and learning design, Foundations of Educational Technology, Second Edition offers a fresh, interdisciplinary, problem-centered approach to the subject, helping students build extensive notes and an electronic portfolio as they navigate the text. The book addresses fundamental aspects of educational technology theory, research and practice that span various users, contexts and settings; includes a full range of engaging exercises for students that will contribute to their professional growth; and offers the following 4-step pedagogical features inspired by M. D. Merrill's First Principles of Instruction: TELL: Primary presentations and pointers to major sources of information and resources ASK: Activities that encourage students to critique applications and share their individual interpretations SHOW: Activities that demonstrate the application of key concepts and complex skills with appropriate opportunities for learner responses DO: Activities in which learners apply key concepts and complex skills while working on practice assignments and/or projects to be created for their electronic portfolios The second edition of this textbook covers the core objectives addressed in introductory educational technology courses while adding new sections on mobile learning, MOOCs, open educational resources, "big data," and learning analytics along with suggestions to instructors and appendices on effective writing, professional associations, journal and trade magazines.

NEW DIRECTIONS IN TECHNOLOGICAL PEDAGOGICAL CONTENT KNOWLEDGE RESEARCH

MULTIPLE PERSPECTIVES

IAP In the past decades wide-ranging research on effective integration of technology in instruction have been conducted by various educators and researchers with the hope that the affordances of technology might be leveraged to improve the teaching and learning process. However, in order to put the technology in optimum use, knowledge about how and in what way technology can enhance the instruction is also essential. A number of theories and models have been proposed in harnessing the technology in everyday lessons. Among these attempts Technological and Pedagogical Content Knowledge (TPACK) framework introduced by Mishra and Koehler has emerged as a representation of the complex relationships between technology, pedagogy and content knowledge. The TPACK framework extends the concept of Shulman's pedagogical content knowledge (PCK) which defines the need for knowledge about the content and pedagogical skills in teaching activities. Since then the framework has been embraced by the educational technology practitioners, instructional designers, and educators. TPACK research received increasing attention from education and training community covering diverse range of subjects and academic disciplines and significant progress has been made in recent years. This book attempts to bring the practitioners and researchers to present current directions, trends and approaches, convey experience and findings, and share reflection and vision to improve science teaching and learning with the use of TPACK framework. A wide array of topics will be covered in this book including applications in teacher training, designing courses, professional development and impact on learning, intervention strategies and other complex educational issues. Information contained in this book will provide knowledge growth and insights into effective educational strategies in integration of technology with the use of TPACK as a theoretical and developmental tool. The book will be of special interest to international readers including educators, teacher trainers, school administrators, curriculum designers, policy makers, and researchers and complement the existing literature and published works.

LEARNING AND INSTRUCTIONAL TECHNOLOGIES FOR THE 21ST CENTURY

VISIONS OF THE FUTURE

Springer Science & Business Media Learning and Instructional Technologies for the 21st Century gathers research which identify models and approaches to improve learning through the inclusion of technology. These papers, from leading researchers and thinkers in instructional technology, begin by refuting the idea that education can be improved through more or better technology. Instead, the contributors emphasize specific, research-based ideas, which re-evaluate learning, reorganize schools, redirect technology, and provide instruction. Acknowledging the critical role of technology, these contributions explore technology's main advantage--its ability to enable advanced learning designs and emerging paradigms as well as to evolve learning interactions. While each paper explores a specific aspect of the role of technology, the collection shares this common theme. Without sufficient consideration to the process of learning and its many facets, technological availability alone will not provide a sustained impact on the educational process. Originating from the first AECT Research Symposium, Learning and Instructional Technologies for the 21st Century will be of interest to researchers and practitioners alike.

TEACHER TRAINING AND PROFESSIONAL DEVELOPMENT: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global Regardless of the field or discipline, technology is rapidly advancing, and individuals are faced with the challenge of adapting to these new innovations. To remain up-to-date on the current practices, teachers and administrators alike must constantly stay informed of the latest advances in their fields. Teacher Training and Professional Development: Concepts, Methodologies, Tools, and Applications contains a compendium of the latest academic material on the methods, skills, and techniques that are essential to lifelong learning and professional advancement. Including innovative studies on teaching quality, pre-service teacher preparation, and faculty enrichment, this multi-volume book is an ideal source for academics, professionals, students, practitioners, and researchers.

PRE-SERVICE AND IN-SERVICE TEACHER EDUCATION: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global As with any industry, the education sector goes through frequent changes due to modern technological advancements. It is every educator’s duty to keep up with these shifting requirements and alter their teaching style to best fit the needs of their classroom. Pre-Service and In-Service Teacher Education: Concepts, Methodologies, Tools, and Applications explores the current state of pre-service teacher programs as well as continuing education initiatives for in-service educators. It also emphasizes the growing role of technology in teacher skill development and training as well as key pedagogical developments and methods. Highlighting a range of topics such as teacher preparation programs, teaching standards, and fieldwork and practicum experiences, this multi-volume book is designed for pre-service teachers, teacher educators, researchers, professionals, and academics in the education field.

ADULT AND CONTINUING EDUCATION: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global Beyond the undergraduate and graduate levels, education has traditionally ceased when students enter the workforce as professionals in their respective fields. However, recent trends in education have found that adult students beyond the traditional university age often benefit greatly from returning to further their education. Adult and Continuing Education: Concepts, Methodologies, Tools, and Applications investigates some of the most promising trends in furthering education and professional development in a variety of settings and industries. With an extensive array of chapters on topics ranging from non-traditional students to online and distance education for adult learners, this multi-volume reference book will provide students, educators, and industry professionals with the tools necessary to make the most of their return to the classroom.

LEARNING AND PERFORMANCE ASSESSMENT: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global As teaching strategies continue to change and evolve, and technology use in classrooms continues to increase, it is imperative that their impact on student learning is monitored and assessed. New practices are being developed to enhance students’ participation, especially in their own assessment, be it through peer-review, reflective assessment, the introduction of new technologies, or other novel solutions. Educators must remain up-to-date on the latest methods of evaluation and performance measurement techniques to ensure that their students excel. Learning and Performance Assessment: Concepts, Methodologies, Tools, and Applications is a vital reference source that examines emerging perspectives on the theoretical and practical aspects of learning and performance-based assessment techniques and applications within educational settings. Highlighting a range of topics such as learning outcomes, assessment design, and peer assessment, this multi-volume book is ideally designed for educators, administrative officials, principals, deans, instructional designers, school boards, academicians, researchers, and education students seeking coverage on an educator’s role in evaluation design and analyses of evaluation methods and outcomes.

INFORMATION AND TECHNOLOGY LITERACY: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global People currently live in a digital age in which technology is now a ubiquitous part of society. It has become imperative to develop and maintain a comprehensive understanding of emerging innovations and technologies. Information and Technology Literacy: Concepts, Methodologies, Tools, and Applications is an authoritative reference source for the latest scholarly research on techniques, trends, and opportunities within the areas of digital literacy. Highlighting a wide range of topics and concepts such as social media, professional development, and educational applications, this multi-volume book is ideally designed for academics, technology developers, researchers, students, practitioners, and professionals interested in the importance of understanding technological innovations.

FOUNDATIONS OF EDUCATIONAL TECHNOLOGY

INTEGRATIVE APPROACHES AND INTERDISCIPLINARY PERSPECTIVES

Taylor & Francis Foundations of Educational Technology offers a fresh, interdisciplinary, problem-centered approach to educational technology, learning design, and instructional systems development. As the implementation of online, blended, hybrid, mobile, open, and adaptive learning systems rapidly expands, emerging tools such as learning analytics, artificial intelligence, mixed realities, serious games, and micro-credentialing are promising more complex and personalized learning experiences. This book provides faculty and graduate students with a conceptual, empirical, and practical basis for the effective use of these systems across contexts, integrating essential theories from the fields of human performance, learning and development, information and communications, and instructional design. Key additions to this revised and expanded third edition include coverage of the latest learning technologies, research from educational neuroscience, discussions about security and privacy, new attention to diversity, equity, and inclusion, updated activities, support materials, references, and more.

HANDBOOK OF RESEARCH ON TECHNOLOGY TOOLS FOR REAL-WORLD SKILL DEVELOPMENT

IGI Global Education is expanding to include a stronger focus on the practical application of classroom lessons in an effort to prepare the next generation of scholars for a changing world economy centered on collaborative and problem-solving skills for the digital age. The Handbook of Research on Technology Tools for Real-World Skill Development presents comprehensive research and discussions on the importance of practical education focused on digital literacy and the problem-solving skills necessary in everyday life. Featuring timely, research-based chapters exploring the broad scope of digital and computer-based learning strategies including, but not limited to, enhanced classroom experiences, assessment programs, and problem-solving training, this publication is an essential reference source for academicians, researchers, professionals, and policymakers interested in the practical application of technology-based learning for next-generation education.

ASSESSMENT IN GAME-BASED LEARNING

FOUNDATIONS, INNOVATIONS, AND PERSPECTIVES

Springer Science & Business Media The capabilities and possibilities of emerging game-based learning technologies bring about a new perspective of learning and instruction. This, in turn, necessitates alternative ways to assess the kinds of learning that is taking place in the virtual worlds or informal settings. accordingly, aligning learning and assessment is the core for creating a favorable and effective learning environment. The edited volume will cover the current state of research, methodology, assessment, and technology of game-based learning. There will be contributions from international distinguished researchers which will present innovative work in the areas of educational psychology, educational diagnostics, educational technology, and learning sciences. The edited volume will be divided into four major parts.

AVOIDING SIMPLICITY, CONFRONTING COMPLEXITY

ADVANCES IN STUDYING AND DESIGNING (COMPUTER-BASED) POWERFUL LEARNING ENVIRONMENTS

BRILL The book presents an up-to-date overview of current research by experienced researchers from well-known research centers. This book is intended for an audience of educational researchers, instructional designers, and all those fascinated by questions with respect to the design of learning environments and the use of technology.

THE NATURE OF TECHNOLOGY

IMPLICATIONS FOR LEARNING AND TEACHING

Springer Science & Business Media How does technology alter thinking and action without our awareness? How can instantaneous information access impede understanding and wisdom? How does technology alter conceptions of education, schooling, teaching and what learning entails? What are the implications of these and other technology issues for society? Meaningful technology education is far more than learning how to use technology. It entails an understanding of the nature of technology — what technology is, how and why technology is developed, how individuals and society direct, react to, and are sometimes unwittingly changed by technology. This book places these and other issues regarding the nature of technology in the context of learning, teaching and schooling. The nature of technology and its impact on education must become a significant object of inquiry among educators. Students must come to understand the nature of technology so that they can make informed decisions regarding how technology may influence thinking, values and action, and when and how technology should be used in their personal lives and in society. Prudent choices regarding technology cannot be made without understanding the issues that this book raises. This book is intended to raise such issues and stimulate thinking and action among teachers, teacher educators, and education researchers. The contributions to this book raise historical and philosophical issues regarding the nature of technology and their implications for education; challenge teacher educators and teachers to promote understanding of the nature of technology; and provide practical considerations for teaching the nature of technology.

TABLETS IN K-12 EDUCATION: INTEGRATED EXPERIENCES AND IMPLICATIONS

INTEGRATED EXPERIENCES AND IMPLICATIONS

IGI Global "This book explores the use of hand-held mobile devices in primary and secondary classrooms to assist in learning, sharing, and communication among students and teachers"--Provided by publisher.

THE MATHEMATICS TEACHER IN THE DIGITAL ERA

AN INTERNATIONAL PERSPECTIVE ON TECHNOLOGY FOCUSED PROFESSIONAL DEVELOPMENT

Springer Science & Business Media This volume addresses the key issue of the initial education and lifelong professional learning of teachers of mathematics to enable them to realize the affordances of educational technology for mathematics. With invited contributions from leading scholars in the field, this volume contains a blend of research articles and descriptive texts. In the opening chapter John Mason invites the reader to engage in a number of mathematics tasks that highlight important features of technology-mediated mathematical activity. This is followed by three main sections: An overview of current practices in teachers' use of digital technologies in the classroom and explorations of the possibilities for developing more effective practices drawing on a range of research perspectives (including grounded theory, enactivism and Valsiner's zone theory). A set of chapters that share many common constructs (such as instrumental orchestration, instrumental distance and double instrumental genesis) and research settings that have emerged from the French research community, but have also been taken up by other colleagues. Meta-level considerations of research in the domain by contrasting different approaches and proposing connecting or uniting elements

EDUCATIONAL MEDIA AND TECHNOLOGY YEARBOOK

VOLUME 35, 2010

Springer Science & Business Media This book highlights the latest in educational technology. Here are ideas that are not only intellectually intriguing but also practical and practice-building, inspiring educators to move beyond traditional teaching roles toward learning design.

EDUCATION

PediaPress

TAXONOMY OF LEARNING

PediaPress

PROMOTING GLOBAL LITERACY SKILLS THROUGH TECHNOLOGY-INFUSED TEACHING AND LEARNING

IGI Global The increasing internationalization of today's classrooms calls for learning institutions to prepare students for success in an interdependent and technologically-advanced world. Faculty who are competent in multiple 21st century skills are best equipped to engage students in curricula that are relevant, transformative, and engaging across content areas and cultures. Promoting Global Literacy Skills through Technology-Infused Teaching and Learning examines the function and role of globalization in 21st century teaching and learning, especially in light of technology integration and the need to prepare and empower global educators and global citizens respectively. Covering topics that range from social networking in linguistics to software used in engineering curricula, this premier reference work will be relevant to academicians, researchers, students, librarians, practitioners, professionals, and engineers.

HANDBOOK OF RESEARCH ON ENHANCING TEACHER EDUCATION WITH ADVANCED INSTRUCTIONAL TECHNOLOGIES

IGI Global Before today's teachers are ready to instruct the intellectual leaders of tomorrow, they must first be trained themselves. Information and communication technology can greatly increase the effectiveness of this training and also aid teachers as they seek to bring the latest technological advancements into their own classrooms. The Handbook of Research on Enhancing Teacher Education with Advanced Instructional Technologies explains the need to bring technology to the forefront of teacher training. With an emphasis on how information and communication technology can provide richer learning outcomes, this book is an essential reference source for researchers, academics, professionals, students, and technology developers in various disciplines.

INTEGRATION OF CLOUD TECHNOLOGIES IN DIGITALLY NETWORKED CLASSROOMS AND LEARNING COMMUNITIES

IGI Global The application of emerging technology in educational settings has proven to significantly enhance students' experiences. These tools provide better learning opportunities and engagement between students and instructors. Integration of Cloud Technologies in Digitally Networked Classrooms and Learning Communities is a pivotal reference source for the latest scholarly research on the implementation of cloud pedagogies and innovations in classroom environments. Highlighting concepts related to learning engagement, curriculum design, and theoretical perspectives, this book is ideally designed for researchers, practitioners, professionals, and students interested in the use of cloud technology in digital classrooms.

TECHNOLOGY INTEGRATION FOR MEANINGFUL CLASSROOM USE: A STANDARDS-BASED APPROACH

Cengage Learning Updated and streamlined for easier use, TECHNOLOGY INTEGRATION FOR MEANINGFUL CLASSROOM USE: A STANDARDS-BASED APPROACH, Second Edition, equips readers with the knowledge, creative and critical thinking skills, and confidence needed to become self-directed learners who can successfully navigate the constantly changing environment of technology integration in the classroom. Using the principles of self-directed learning as its foundation, the book aims to help readers learn to evaluate and reflect on professional practice to make informed decisions regarding the use of technology in support of student learning. The first educational technology book organized around the 2008 National Educational Technology Standards for Teachers (NETS-T) developed by the International Society for Technology in Education (ISTE), this standards-based approach provides the framework for developing, modeling, and teaching the skills and knowledge necessary for integrating technology in authentic teaching and learning. An end-of-book supplement provides examples of technology integration in practice within specific content areas, guided by the national standards that apply to each content domain. Available with InfoTrac Student Collections http://gocengage.com/infotrac. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

VIRTUAL MENTORING FOR TEACHERS: ONLINE PROFESSIONAL DEVELOPMENT PRACTICES

ONLINE PROFESSIONAL DEVELOPMENT PRACTICES

IGI Global A major investment in professional development is necessary to ensure the fundamental success of instructors in technology-integrated classrooms and in online courses. However, while traditional models of professional development rely on face-to-face instruction, online methods are also gaining traction-viable means for faculty development. Virtual Mentoring for Teachers: Online Professional Development Practices offers peer-reviewed essays and research reports contributed by an array of scholars and practitioners in the field of instructional technology and online education. It is

organized around two primary themes: professional development models for faculty in online environments and understanding e-Learning and best practices in teaching and learning in online environments. The objective of this scholarship is to highlight research-based online professional development programs and best practices models that have been shown to enhance effective teaching and learning in a variety of environments.

TEACHING ONLINE

A GUIDE TO THEORY, RESEARCH, AND PRACTICE

JHU Press It is difficult to imagine a college class today that does not include some online component—whether a simple posting of a syllabus to course management software, the use of social media for communication, or a full-blown course offering through a MOOC platform. In Teaching Online, Claire Howell Major describes for college faculty the changes that accompany use of such technologies and offers real-world strategies for surmounting digital teaching challenges. Teaching with these evolving media requires instructors to alter the ways in which they conceive of and do their work, according to Major. They must frequently update their knowledge of learning, teaching, and media, and they need to develop new forms of instruction, revise and reconceptualize classroom materials, and refresh their communication patterns. Faculty teaching online must also reconsider the student experience and determine what changes for students ultimately mean for their own work and for their institutions. Teaching Online presents instructors with a thoughtful synthesis of educational theory, research, and practice as well as a review of strategies for managing the instructional changes involved in teaching online. In addition, this book presents examples of best practices from successful online instructors as well as cutting-edge ideas from leading scholars and educational technologists. Faculty members, researchers, instructional designers, students, administrators, and policy makers who engage with online learning will find this book an invaluable resource.

COMPETENCIES IN ORGANIZATIONAL E-LEARNING

CONCEPTS AND TOOLS

IGI Global Competencies in Organizational E-Learning: Concepts and Tools provides a comprehensive view of the way competencies can be used to drive organizational e-learning, including the main conceptual elements, competency gap analysis, advanced related computing topics, the application of semantic Web technologies, and the integration of competencies with current e-learning standards. Competencies in Organizational E-Learning: Concepts and Tools is the first book to address competencies as a key observable workplace behavior, driving learning and knowledge dissemination processes inside organizations. This book works as a guide for implementing or improving competency-based approaches to e-learning.

DEVELOPING TECHNOLOGY-RICH TEACHER EDUCATION PROGRAMS: KEY ISSUES

KEY ISSUES

IGI Global "This book offers professional teacher educators a rare opportunity to harvest the thinking of pioneering colleagues spanning dozens of universities, and to benefit from the creativity, scholarship, hard work, and reflection that led them to the models they describe"--Provided by publisher.

TECHNOLOGY APPLICATION COMPETENCIES FOR K-12 TEACHERS

IGI Global "This book is designed to strengthen understanding of the critical information in the framework for technology application competencies for K-12 teachers"--Provided by publisher.

GOOD PRACTICE IN INFORMATION AND COMMUNICATION TECHNOLOGY FOR EDUCATION

Asian Development Bank ICT for education is a rapidly evolving and high-priority development area. This guide stresses the importance of a holistic good practice framework in which ICT for education issues are pursued through three interrelated perspectives: (i) national perspective, (ii) education sector perspective, and (iii) education institution and school perspective. The guide draws on a range of sources, including the findings of ADB’s studies on ICT for education and the experience ADB has gained with stakeholders and partners in providing project assistance for ICT for education in its developing member countries.

CASES ON SMART LEARNING ENVIRONMENTS

IGI Global At a time when ICTs are proliferating various facets of society and human interactivity, optimizing the use of these tools and technologies not only enhances learning but also transforms learning experiences all together, resulting in an increase of effectiveness and quality of education around the globe. As such, teachers are being challenged to implement a wide range of tools, such as mobile learning and augmented reality, to create smarter learning environments inside and outside of the classroom. Cases on Smart Learning Environments explores the potential of SLE tools for enhanced learning outcomes as experienced by educators, learners, and administrators from various learning institutions around the world. This publication presents cases on the real-world implementation of SLEs in 11 countries that span the continents of Asia, Africa, Europe, and North and South America. Featuring coverage on a broad range of topics such as learner engagement, teacher training, and intelligent agent technology, this book is ideally designed for academicians, instructors, instructional designers, librarians, educational stakeholders, and curriculum developers.

THE NEXT GENERATION OF DISTANCE EDUCATION

UNCONSTRAINED LEARNING

Springer Science & Business Media The world of education is being radically altered with the change being driven by technology, openness, and unprecedented access to knowledge. Older correspondence-style methods of instructional delivery are passé and “classroom adapted to the web” approaches to learning are often ineffective and do little to harness the transformational potential of technology. E-Learning scenarios, mobile technologies, communication and information access, and personal learning environments are becoming mainstream and, as a result, control of the learning process is shifting away from institutions and into the hands of learners. This volumes promotes a forward-thinking agenda for research and scholarship that highlights new ideas, deep insights, and novel approaches to “unconstrained” learning.

HANDBOOK OF CONVERSATION DESIGN FOR INSTRUCTIONAL APPLICATIONS

IGI Global Given the rapid growth of computer-mediated communication, there is an ever-broadening range of social interactions. With conversation as the bedrock on which social interactions are built, there is growing recognition of the important role conversation has in instruction, particularly in the design and development of technologically advanced educational environments. The Handbook of Conversation Design for Instructional Applications presents key perspectives on the evolving area of conversation design, bringing together a multidisciplinary body of work focused on the study of conversation and conversation design practices to inform instructional applications. Offering multimodal instructional designers and developers authoritative content on the cutting-edge issues and challenges in conversation design, this book is a must-have for reference library collections worldwide.

INNOVATIVE APPROACHES FOR LEARNING AND KNOWLEDGE SHARING

FIRST EUROPEAN CONFERENCE ON TECHNOLOGY ENHANCED LEARNING, EC-TEL 2006, CRETE, GREECE, OCTOBER 1-4, 2006, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the First European Conference on Technology Enhanced Learning, EC-TEL 2006. The book presents 32 revised full papers, 13 revised short papers and 31 poster papers together with 2 keynote talks. Topics addressed include collaborative learning, personalized learning, multimedia content, semantic web, metadata and learning, workplace learning, learning repositories and infrastructures for learning, as well as experience reports, assessment, and case studies, and more.