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KEY=AND - SANTANA KYLEE

ONLINE SCIENCE LEARNING: BEST PRACTICES AND TECHNOLOGIES

BEST PRACTICES AND TECHNOLOGIES

IGI Global The continued growth in general studies and liberal arts and science programs online has led to a rise in the number of students whose science learning experiences are web-based. However, little is known about what is actually going on in web-based science courses at the level of the disciplines within liberal arts and sciences or the corresponding course design features. *Online Science Learning: Best Practices and Technologies* reviews trends and efforts in web-based science instruction and evaluates contemporary philosophies and pedagogies of online science instruction. This title on an emergent and vital area of education clearly demonstrates how to enrich the academic character and quality of web-based science instruction.

TEACHING LAB SCIENCE COURSES ONLINE

RESOURCES FOR BEST PRACTICES, TOOLS, AND TECHNOLOGY

John Wiley & Sons Teaching Lab Science Courses Online is a practical resource for educators developing and teaching fully online lab science courses. First, it provides guidance for using learning management systems and other web 2.0 technologies such as video presentations, discussion boards, Google apps, Skype, video/web conferencing, and social media networking. Moreover, it offers advice for giving students the hands-on "wet laboratory" experience they need to learn science effectively, including the implications of implementing various lab experiences such as computer simulations, kitchen labs, and commercially assembled at-home lab kits. Finally, the book reveals how to get administrative and faculty buy-in for teaching science online and shows how to negotiate internal politics and assess the budget implications of online science instruction.

PROMOTING ACTIVE LEARNING THROUGH THE INTEGRATION OF MOBILE AND UBIQUITOUS TECHNOLOGIES

IGI Global Once considered disruptive to learning, technology has increasingly become an integrated and valued part of the modern classroom. In particular, mobile technologies provide the ability to encourage evocative student learning through new experiences. *Promoting Active Learning through the Integration of Mobile and Ubiquitous Technologies* showcases the widely varied ways that technology can be applied to enhance classroom learning. Closely examining and critiquing the best methods in assimilating technologies, this publication is a valuable resource for faculty, teachers, administrators, technology staff, directors of learning centers, and other education technology leaders interested in incorporating new technologies within the classroom for engaging student learning.

ONLINE TUTOR 2.0: METHODOLOGIES AND CASE STUDIES FOR SUCCESSFUL LEARNING

METHODOLOGIES AND CASE STUDIES FOR SUCCESSFUL LEARNING

IGI Global After centuries of rethinking education and learning, the current theory is based on technology's approach to and affect on the planned interaction between knowledge trainers and trainees. *Online Tutor 2.0: Methodologies and Case Studies for Successful Learning* demonstrates, through the exposure of successful cases in online education and training, the necessity of the human factor, particularly in teaching/tutoring roles, for ensuring the development of quality and excellent learning activities. The didactic patterns derived from these experiences and methodologies will provide a basis for a more powerful and efficient new generation of technology-based learning solutions for high school teachers, university professors, researchers, and students at all levels of education.

TELEMENTORING IN THE K-12 CLASSROOM: ONLINE COMMUNICATION TECHNOLOGIES FOR LEARNING

ONLINE COMMUNICATION TECHNOLOGIES FOR LEARNING

IGI Global Telementoring in the K-12 Classroom: Online Communication Technologies for Learning provides the latest research and the best practices in the field of telementoring. Theoretical and pragmatic viewpoints on telementoring provide guidance to professionals wanting to inform their practice. A solid base of telementoring information and an expansive vision of this practice combine to promote the understanding and successful implementation of telementoring.

LEARNING MANAGEMENT SYSTEM TECHNOLOGIES AND SOFTWARE SOLUTIONS FOR ONLINE TEACHING: TOOLS AND APPLICATIONS

TOOLS AND APPLICATIONS

IGI Global "This book gives a general coverage of learning management systems followed by a comparative analysis of the particular LMS products, review of technologies supporting different aspect of educational process, and, the best practices and methodologies for LMS-supported course delivery"-- Provided by publisher.

BRIDGING THE SCHOLAR-PRACTITIONER GAP IN HUMAN RESOURCES DEVELOPMENT

IGI Global Human resource professionals are an essential part of an organization; by helping to establish a rapport between employees and their managers and providing individual support, they ensure the overall well-being and success of an establishment. However, in certain sectors, such as academia or industrial settings, their role still remains unclear. *Bridging the Scholar-Practitioner Gap in Human Resources Development* examines the knowledge breach in the role of human resources professionals and the pivotal role they play in an organization. Featuring timely research, future implications, and practical applications of theoretical assumptions, this publication is a pivotal source for professionals, practitioners, academics, and researchers interested in the impact human resources specialists have in organizational settings.

GLOBALIZED CURRICULUM METHODS FOR MODERN MATHEMATICS EDUCATION

IGI Global The field of education is in constant flux as new theories and practices emerge to engage students and improve the learning experience. Globalization has created new challenges for mathematics educators as they are compelled to respond to the shifting patterns and practices of everyday life and stay abreast of the latest research in education, curriculum, development, and technologies. *Globalized Curriculum Methods for Modern Mathematics Education* is a comprehensive and timely publication that contains the latest research in mathematics education and modern globalized curriculum development and technologies. The book examines subjects such as teaching competencies, digital games for teaching and learning mathematics, and the challenges and prospects of globalized science curriculum. This is an ideal resource for educators, academicians, teachers, policy

makers, researchers, and graduate-level students seeking to further their research in mathematics education.

TEACHING AND LEARNING ONLINE

SCIENCE FOR ELEMENTARY GRADE LEVELS

IAP Science is unique among the disciplines since it is inherently hands-on. However, the hands-on nature of science instruction also makes it uniquely challenging when teaching in virtual environments. How do we, as science teachers, deliver high-quality experiences in an online environment that leads to age/grade-level appropriate science content knowledge and literacy, but also collaborative experiences in the inquiry process and the nature of science? The expansion of online environments for education poses logistical and pedagogical challenges for early childhood and elementary science teachers and early learners. Despite digital media becoming more available and ubiquitous and increases in online spaces for teaching and learning (Killham et al., 2014; Wong et al., 2018), PreK-12 teachers consistently report feeling underprepared or overwhelmed by online learning environments (Molnar et al., 2021; Seaman et al., 2018). This is coupled with persistent challenges related to elementary teachers' lack of confidence and low science teaching self-efficacy (Brigido, Borrachero, Bermejo, & Mellado, 2013; Gunning & Mensah, 2011). *Teaching and Learning Online: Science for Elementary Grade Levels* comprises three distinct sections: Frameworks, Teacher's Journeys, and Lesson Plans. Each section explores the current trends and the unique challenges facing elementary teachers and students when teaching and learning science in online environments. All three sections include alignment with Next Generation Science Standards, tips and advice from the authors, online resources, and discussion questions to foster individual reflection as well as small group/classwide discussion. Teacher's Journeys and Lesson Plan sections use the 5E model (Bybee et al., 2006; Duran & Duran, 2004). Ideal for undergraduate teacher candidates, graduate students, teacher educators, classroom teachers, parents, and administrators, this book addresses why and how teachers use online environments to teach science content and work with elementary students through a research-based foundation.

ICTS FOR MODERN EDUCATIONAL AND INSTRUCTIONAL ADVANCEMENT: NEW APPROACHES TO TEACHING

NEW APPROACHES TO TEACHING

IGI Global Explores current models and issues involved with online course development, assessment, and blended learning.

ADVANCING HIGHER EDUCATION WITH MOBILE LEARNING TECHNOLOGIES: CASES, TRENDS, AND INQUIRY-BASED METHODS

CASES, TRENDS, AND INQUIRY-BASED METHODS

IGI Global "This book examines the implementation and success of mobile digital learning tools, with the inclusion of data on specific learning environments enhanced by ubiquitous educational technologies"--Provided by publisher.

CASES ON ONLINE AND BLENDED LEARNING TECHNOLOGIES IN HIGHER EDUCATION: CONCEPTS AND PRACTICES

CONCEPTS AND PRACTICES

IGI Global Cases on Online and Blended Learning Technologies in Higher Education: Concepts and Practices provides real-life examples of those involved in developing and implementing the merge of traditional education curriculum and online instruction.

ONLINE COURSE MANAGEMENT: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global The rapid growth in online and virtual learning opportunities has created culturally diverse classes and corporate training sessions. Instruction for these learning opportunities must adjust to meet participant needs. *Online Course Management: Concepts, Methodologies, Tools, and Applications* is a comprehensive reference source for the latest scholarly material on the trends, techniques, and management of online and distance-learning environments and examines the benefits and challenges of these developments. Highlighting a range of pertinent topics, such as blended learning, social presence, and educational online games, this multi-volume book is ideally designed for administrators, developers, instructors, staff, technical support, and students actively involved in teaching in online learning environments.

MOBILE LEARNING AND STEM

CASE STUDIES IN PRACTICE

Routledge In recent years, there has been a renewed focus on STEM education in the United States, fueled by evidence that young learners' competencies in science, technology, engineering, and mathematics are falling behind those of their global peers. Scholars and practitioners are beginning to utilize the new pedagogical opportunities offered by mobile learning to improve the successes of teachers and K-12 students across STEM subjects. *Mobile Learning and STEM: Case Studies in Practice* is a comprehensive collection of case studies that explore mobile learning's support of STEM subjects and that utilize mobile technology to facilitate unique and effective K-12 teaching and learning experiences. In addition to its focus on STEM achievement for researchers, this volume is a resource for teachers working to implement mobile learning initiatives into their classrooms. *Mobile Learning and STEM* also includes research that is applicable to classrooms in nations around the world, where few students from underrepresented racial and socioeconomic backgrounds are entering into STEM jobs. Concluding with a summary of its research and its implications to future scholarship and practice, this book is a springboard for practitioners, specialists, higher education instructors, and researchers who want to establish better practices in schools and raise student achievement in STEM subjects.

CRITICAL EXAMINATIONS OF DISTANCE EDUCATION TRANSFORMATION ACROSS DISCIPLINES

IGI Global In recent years, distance education programs have grown to allow greater educational opportunities to a diverse set of learners from all over the world. As remote learning becomes a widespread practice, universities too must adapt to this changing educational landscape. *Critical Examinations of Distance Education Transformation across Disciplines* provides an interdisciplinary look at the development of distance learning in higher education. This reference work bridges the gap between disciplines by offering practical tools and solutions for successful distance education implementation. Educators, administrators, and researchers across academia will find this publication a timely and relevant resource.

BEST PRACTICES FOR TECHNOLOGY-ENHANCED TEACHING AND LEARNING

CONNECTING TO PSYCHOLOGY AND THE SOCIAL SCIENCES

Oxford University Press The use of technology and teaching techniques derived from technology is currently a burgeoning topic in higher education. Teachers at all levels and types of institutions want to know how these new technologies will affect what happens in and outside of the classroom. Many teachers have already embraced some of these technologies but remain uncertain about their educational efficacy. Other teachers have waited because they are reluctant to try tools or techniques that remain unproven or, as is often the case, lack institutional support. This book is designed to help both groups, so that those with technological expertise can extend their knowledge, while technological novices can "ramp up" at their own pace and for their own purposes. *Best Practices for Technology-Enhanced Teaching and Learning* brings together expert teacher-scholars who apply and assess technology's impact on traditional, hybrid or blended, or completely on-line courses, relying on technology as a teaching tool for classroom management and interaction (e.g., Blackboard, PowerPoint, student response or "clicker systems," multimedia tools), as well as student-based uses of technology largely independent of instructors (e.g., social networking on popular sites including Facebook and MySpace). Each chapter will address how technological improvements can be connected to assessment initiatives, as is now routinely advocated in psychology and social science education. The book

features current scholarship and pedagogy involving innovative technology that impacts on student learning in psychology and related disciplines, focusing also on student reactions to these novel technologies, and proper assessments of how well they promote learning. This text will serve as the standard reference on emerging technologies for undergraduate instructors.

ENSURING ADULT AND NON-TRADITIONAL LEARNERS' SUCCESS WITH TECHNOLOGY, DESIGN, AND STRUCTURE

IGI Global With the increasing share of adult and non-traditional students in the higher education student body, higher education faculty and administrators must ensure that the design of programs, courses, and student services support the success of all students. The needs and wants of these adult and non-traditional learners will differ, and it is important that research helps advance the understanding of these students to increase their success, acclimation, and experience in institutions. Ensuring Adult and Non-Traditional Learners' Success With Technology, Design, and Structure is designed to provide higher education professionals with current research and research-based best practices for ensuring student success for adult learners and non-traditional students. The research presented in this book will help ensure that programs, courses, and student services are designed and implemented in a manner that supports student success for all learners in the institution. Chapters include research on student motivation, program design, educational technology, student engagement, and more. This book is intended for post-secondary administrators, faculty, teachers, administrators, teacher educators, practitioners, stakeholders, researchers, academicians, and students interested in relevant educational services for adult learners and non-traditional students.

HANDBOOK OF RESEARCH ON TRANSFORMING TEACHERS' ONLINE PEDAGOGICAL REASONING FOR ENGAGING K-12 STUDENTS IN VIRTUAL LEARNING

IGI Global The COVID-19 pandemic drastically transformed the classroom by keeping students and teachers apart for the sake of safety. As schools emptied, remote learning rapidly expanded through online services and video chatrooms. Unfortunately, this disrupted many students and teachers who were not accustomed to remote classrooms. This challenge has forced K-12 teachers to think differently about teaching. Unexpectedly and with little time to prepare, they have been confronted with redesigning their curriculum and instruction from face-to-face to online virtual classrooms to protect students from the COVID-19 virus while ensuring that these new online initiatives remain sustainable and useful in the post-pandemic world. As teachers learn to take advantage of the affordances and strengths of the multiple technologies available for virtual classroom instruction, their instruction both in online and face-to-face will impact what and how students learn in the 21st century. The Handbook of Research on Transforming Teachers' Online Pedagogical Reasoning for Engaging K-12 Students in Virtual Learning examines the best practices and pedagogical reasoning for designing online strategies that work for K-12 virtual learning. The initial section provides foundational pedagogical ideas for constructing engaging virtual learning environments that leverage the unique strengths and opportunities while avoiding the weaknesses and threats of the online world. The following chapters present instructional strategies for multiple grade levels and content areas: best practices that work, clearly describing why they work, and the teachers' pedagogical reasoning that supports online implementations. The chapters provide ways to think about teaching in virtual environments that can be used to guide instructional strategy choices and recognizes the fundamental differences between face-to-face and virtual environments as an essential design component. Covering such topics as K-12 classrooms, pedagogical reasoning, and virtual learning, this text is perfect for professors, teachers, students, educational designers and developers, instructional technology faculty, distance learning faculty, and researchers interested in the subject.

TECHNIQUES FOR FOSTERING COLLABORATION IN ONLINE LEARNING COMMUNITIES: THEORETICAL AND PRACTICAL PERSPECTIVES

THEORETICAL AND PRACTICAL PERSPECTIVES

IGI Global "This book provides a focused assessment of the peculiarities of online collaborative learning processes by looking at the strategies, methods, and techniques used to support and enhance debate and exchange among peers"--Provided by publisher.

CURRICULUM, LEARNING, AND TEACHING ADVANCEMENTS IN ONLINE EDUCATION

IGI Global Although web-based technologies have greatly influenced our society, only recently has its impact affected educational practices. Curriculum, Learning, and Teaching Advancements in Online Education highlights the models and frameworks that have been effective in the development of online education into the classroom. By bringing together knowledge and experience, this book allows educational technologies to be evaluated in a more dynamic context. It is suitable for teachers, researchers, and academic experts interested in rethinking the fundamental processes of teaching and learning.

RESOURCES IN EDUCATION

DEEP FAKES, FAKE NEWS, AND MISINFORMATION IN ONLINE TEACHING AND LEARNING TECHNOLOGIES

IGI Global Choosing the right technologies to match student learning outcomes in today's technology-integrated classrooms presents educators and instructional designers with multiple curricula and instructional design challenges including selecting appropriate technologies to match desired student learning outcomes. As students continue to have broad access to information from a variety of web-based platforms, educators and educational professionals are increasingly tasked with ensuring the information used to complete key assignments or tasks is authentic and from a verifiable resource. As such, the era of deep fakes in images, audios, videos, and digital texts is more prevalent than ever as numerous programs using artificial intelligence (AI) can significantly alter original content to fundamentally change the intent of original content. Moreover, students are being bombarded by a plethora of information that is either intentionally or mistakenly false and must be navigated with care. Accordingly, educators and educational professionals are now tasked with employing best practices to not only teach basic digital literacy and citizenship skills but also to recognize how technology-immersed learning environments interact with deep fakes and misinformation while equipping students with the tools necessary to recognize authentic and altered content. Deep Fakes, Fake News, and Misinformation in Online Teaching and Learning Technologies is a critical reference source that addresses rising concerns of students' ability to navigate the multitude of false and altered information and content that is easily accessible through online platforms. The chapters go into deeper detail about how deep fakes, fake news, and mis- and dis-information have the potential of negatively affecting the fields of teaching and learning and the importance of student access to content-related tasks from legitimate, vetted resources that accurately reflect the desired information the student means to convey. The book seeks to reinforce the importance of digital literacy and digital citizenship among adolescents. This book is essential for teaching faculty, higher education faculty, higher education administrators, educational software developers, security specialists, information specialists, media specialists, librarians, educational researchers, and students looking for information on how deep fakes and fake news are being navigated within the context of online teaching and educational technologies.

LEARNING THEORY AND ONLINE TECHNOLOGIES

Taylor & Francis Learning Theory and Online Technologies offers a powerful overview of the current state of online learning, the foundations of its historical roots and growth, and a framework for distinguishing between the major approaches to online learning. It addresses pedagogy (how to design an effective online environment for learning), evaluation (how to know that students are learning), and history (how past research can guide successful online teaching and learning outcomes). An ideal textbook for undergraduate Education and Communication programs as well as Educational Technology Masters, Ph.D., and Certificate programs, Learning Theory and Online Technologies provides a synthesis of the key advances in online education learning theory and the key frameworks of research, and clearly links theory and research to successful learning practice. This revised second edition updates data on digital media adoption globally, adds a new chapter on connectivism as a learning theory, and updates the chapter on online collaborative learning, renaming the theory as collaborativism and considering the challenges that arise with the growth of artificial intelligence.

ISSUES & TRENDS OF INFORMATION TECHNOLOGY MANAGEMENT IN CONTEMPORARY ORGANIZATIONS

IGI Global As the field of information technology continues to grow and expand, it impacts more and more organizations worldwide. The leaders within these organizations are challenged on a continuous basis to develop and implement programs that successfully apply information technology applications. This is a collection of unique perspectives on the issues surrounding IT in organizations and the ways in which these issues are addressed. This valuable book is a compilation of the latest research in the area of IT utilization and management.

ISSUES IN EDUCATIONAL SCIENCE AND TECHNOLOGY: 2013 EDITION

ScholarlyEditions Issues in Educational Science and Technology: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Internet and Higher Education. The editors have built Issues in Educational Science and Technology: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Internet and Higher Education in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Educational Science and Technology: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us.

You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

HANDBOOK OF DESIGN IN EDUCATIONAL TECHNOLOGY

Routledge The Handbook of Design in Educational Technology provides up-to-date, comprehensive summaries and syntheses of recent research pertinent to the design of information and communication technologies to support learning. Readers can turn to this handbook for expert advice about each stage in the process of designing systems for use in educational settings; from theoretical foundations to the challenges of implementation, the process of evaluating the impact of the design and the manner in which it might be further developed and disseminated. The volume is organized into the following four sections: Theory, Design, Implementation, and Evaluation. The more than forty chapters reflect the international and interdisciplinary nature of the educational technology design research field.

SMALL TEACHING ONLINE

APPLYING LEARNING SCIENCE IN ONLINE CLASSES

John Wiley & Sons Find out how to apply learning science in online classes The concept of small teaching is simple: small and strategic changes have enormous power to improve student learning. Instructors face unique and specific challenges when teaching an online course. This book offers small teaching strategies that will positively impact the online classroom. This book outlines practical and feasible applications of theoretical principles to help your online students learn. It includes current best practices around educational technologies, strategies to build community and collaboration, and minor changes you can make in your online teaching practice, small but impactful adjustments that result in significant learning gains. • Explains how you can support your online students • Helps your students find success in this non-traditional learning environment • Covers online and blended learning • Addresses specific challenges that online instructors face in higher education Small Teaching Online presents research-based teaching techniques from an online instructional design expert and the bestselling author of Small Teaching.

TEACHER EDUCATION: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global Educators play a significant role in the intellectual and social development of children and young adults. Next-generation teachers can only be as strong as their own educational foundation which serves to cultivate their knowledge of the learning process, uncover best practices in the field of education, and employ leadership abilities that will inspire students of all ages. 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. Emphasizing the growing role of technology in teacher skill development and training as well as key teaching methods and pedagogical developments, this multi-volume work compiles research essential to higher education professionals and administrators, educational software developers, and researchers studying pre-service and in-service teacher training.

THE EXCELLENT ONLINE INSTRUCTOR

STRATEGIES FOR PROFESSIONAL DEVELOPMENT

John Wiley & Sons The Excellent Online Instructor is a guide for new and seasoned faculty who teach online, those responsible for training and developing online instructors, and administrators who must evaluate online faculty performance. This comprehensive resource describes the qualities of and explains how one can become an excellent online instructor. Written by Rena M. Palloff and Keith Pratt—noted experts in online instruction—the book Includes models based in adult learning principles and best practices Offers guidelines to test instructors' readiness to teach online Contains ideas for overcoming faculty resistance Reveals how to develop an effective mentoring program Shows how to establish a long-term faculty development effort Praise for The Excellent Online Instructor "Palloff and Pratt have a profound understanding of the online educational milieu, its complexities and challenges as well as the potential it opens up to serious educators dedicated to exploiting its full value. Practical and down-to-earth strategies are at the core of what the authors offer the reader in this engaging book." —Michael J. Canuel, CEO, LEARN Quebec "This book examines best practices for effective online teaching and instructor engagement and provides a concise plan for faculty development and effective training methods. Rena Palloff and Keith Pratt have provided another essential resource for the field of online teaching and learning that is a must-read for anyone working with faculty or teaching online in either higher education or K-12." —Kaye Shelton, dean, Online Education, Dallas Baptist University "Whether you are guiding departmental faculty or looking to improve your own online skills, Palloff and Pratt provide practical steps, tools to organize your processes, best practices to emulate, and valuable resources to help you achieve excellence online." —Lynn Olson, dean, Graduate and Professional Studies, St. Joseph's College Online

INNOVATIONS TECHNOLOGIES IN SCIENCE AND PRACTICE

International Science Group Proceedings of the VI International Scientific and Practical Conference

APPROACHES AND STRATEGIES IN NEXT GENERATION SCIENCE LEARNING

IGI Global Approaches and Strategies in Next Generation Science Learning examines the challenges involved in the development of modern curriculum models, teaching strategies, and assessments in science education in order to prepare future students in the 21st century economies. This comprehensive collection of research brings together science educators, researchers and administrators interested in enhancing the teaching and learning of next generation science.

LEARNING IN THE SYNERGY OF MULTIPLE DISCIPLINES

4TH EUROPEAN CONFERENCE ON TECHNOLOGY ENHANCED LEARNING, EC-TEL 2009 NICE, FRANCE, SEPTEMBER 29--OCTOBER 2, 2009 PROCEEDINGS

Springer Science & Business Media toparticipateactivelyinknowledgecommunicationandknowledgeconstruction, mobile and ubiquitous computing technologies enable the integration of inf- mal and formal learning support.

INCREASING PRODUCTIVITY AND EFFICIENCY IN ONLINE TEACHING

IGI Global Distance learning has become very popular in recent years, making evident some of the problems inherent to online classes as they are today. High attrition rates, driven in part by student isolation and low satisfaction, have plagued online courses. For an online class to succeed, it must be built upon engaging media and meaningful interaction. Increasing Productivity and Efficiency in Online Teaching provides a reference for educators in virtual classrooms and enumerates strategies to foster instructor engagement and support. Because co-construction of information, opposed to rote memorization of disseminated facts, engages students and develops critical thinking skills, online education must shift to reflect this. Drawing from learning theory, this publication focuses on the ways educators can shape their online classes to best suit their students and leave them with knowledge and course satisfaction. This book is recommended for researchers, developers, students of education, administrators, and online educators in all subject areas.

LEARNING ONLINE

WHAT RESEARCH TELLS US ABOUT WHETHER, WHEN AND HOW

Routledge At a time when more and more of what people learn both in formal courses and in everyday life is mediated by technology, Learning Online provides a much-needed guide to different forms and applications of online learning. This book describes how online learning is being used in both K-12 and higher education settings as well as in learning outside of school. Particular online learning technologies, such as MOOCs (massive open online courses), multi-player games, learning analytics, and adaptive online practice environments, are described in terms of design principles, implementation,

and contexts of use. Learning Online synthesizes research findings on the effectiveness of different types of online learning, but a major message of the book is that student outcomes arise from the joint influence of implementation, context, and learner characteristics interacting with technology--not from technology alone. The book describes available research about how best to implement different forms of online learning for specific kinds of students, subject areas, and contexts. Building on available evidence regarding practices that make online and blended learning more effective in different contexts, Learning Online draws implications for institutional and state policies that would promote judicious uses of online learning and effective implementation models. This in-depth research work concludes with a call for an online learning implementation research agenda, combining education institutions and research partners in a collaborative effort to generate and share evidence on effective practices.

TOWARDS SUSTAINABLE AND SCALABLE EDUCATIONAL INNOVATIONS INFORMED BY THE LEARNING SCIENCES

SHARING GOOD PRACTICES OF RESEARCH, EXPERIMENTATION AND INNOVATION

IOS Press One of the basic principles that underpin the learning sciences is to improve theories of learning through the design of powerful learning environments that can foster meaningful learning. Learning sciences researchers prefer to research learning in authentic contexts. They collect both qualitative and quantitative data from multiple perspectives and follow developmental micro-genetic or historical approaches to data observation. Learning sciences researchers conduct research with the intention of deriving design principles through which change and innovation can be enacted. Their goal is to conduct research that can sustain transformations in schools. We need to be cognizant of research that can inform and lead to sustainable and scalable models of innovation. In order to do so, we need to take an inter-disciplinary view of learning, such as that embraced by the learning sciences. This publication focuses on learning sciences in the Asia-Pacific context. There are researchers and young academics within the Asia-Pacific Society for Computers in Education (APSCE) community who are concerned with issues of conducting research that can be translated into practice. Changes in practice are especially important to Asian countries because their educational systems are more centralized. That is why there is a need to reform pedagogy in a more constructivist and social direction in a scalable way.

ADULT LEARNING IN THE DIGITAL AGE: PERSPECTIVES ON ONLINE TECHNOLOGIES AND OUTCOMES

PERSPECTIVES ON ONLINE TECHNOLOGIES AND OUTCOMES

IGI Global "This book provides a comprehensive framework of trends and issues related to adult learning"--Provided by publisher.

EDUCATIONAL TECHNOLOGY AND RESOURCES FOR SYNCHRONOUS LEARNING IN HIGHER EDUCATION

IGI Global As more classes move to online instruction, there is a need for research that shows the effectiveness of synchronous learning. Educators must guide students on how to use these new learning tools and become aware of the research trends and opportunities within these developing online and hybrid courses. Educational Technology and Resources for Synchronous Learning in Higher Education provides evidence-based practice on incorporating synchronous teaching tools and practice within online courses to enhance content mastery and community development. Additionally, the book presents a strong theoretical overview of the topic and allows readers to develop a more nuanced understanding of the benefits and constraints of synchronous learning. Covering topics such as game learning, online communication, and professional development, it is designed for online instructors, instructional designers, administrators, students, and researchers and educators in higher education, as well as corporate, military, and government sectors.

TECHNOLOGY SUPPORTED ACTIVE LEARNING

STUDENT-CENTERED APPROACHES

Springer Nature This book promotes student-centered approaches to the learning process, allowing students to develop skills and competences that traditional, passive learning methods cannot foster. In turn, supporting active learning with digital technology tools creates new possibilities in terms of pedagogical design and implementation. This book addresses the latest research and practice in the use of technology to promote active learning. As such, on the one hand, it focuses on active pedagogical methodologies like problem-based learning, design thinking and agile approaches; on the other, it presents best practice cases on the use of digital environments to support these methodologies. Readers will come to understand and learn to apply active learning methodologies, either by replicating the best practices presented here, or by creating their own methods.

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.

HANDBOOK OF RESEARCH ON TECHNOLOGIES FOR IMPROVING THE 21ST CENTURY WORKFORCE: TOOLS FOR LIFELONG LEARNING

TOOLS FOR LIFELONG LEARNING

IGI Global As the 21st century has seen, lifelong learning has become more important as many countries have emerged into "learning societies". With these learning societies, adult and community education, along with new technologies, play a major role in shaping and reshaping their economic, political, and cultural realities. Handbook of Research on Technologies for Improving the 21st Century Workforce: Tools for Lifelong Learning addresses how technologies impact the combination of workforce education and adult learning. This comprehensive collection of research from leading authorities and front line faculty seeks to equip adult learners/employees with the right knowledge and skills to continue to contribute to the economy given the importance of the essential role of technologies.