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STEM Education

This book covers a broad range of innovations in education, such as flipped classrooms, the educational use of social media, mobile learning, educational resources and massive open online courses, as well as theoretical discussions and practical applications in the use of augmented reality and educational technology to improve student engagement and pave the way for students' future studies and careers. The case studies and practical applications presented here illustrate the effectiveness of new modes of education in which technology and innovations are widely used in the global context. Accordingly, the book can help develop readers' awareness of the potential these innovations hold, thus expanding their expertise and stimulating critical thinking as to how new technologies have made learning and teaching easier in various educational settings.

As a result of the COVID-19 pandemic, there has been a shift towards using blended, synchronous, and asynchronous instructional environments. The impact upon the immediacy of remote learning was overwhelming to many faculty, instructional facilitators, teachers, and trainers. Many faculty and trainers have experience with the analysis, design, development, implementation, and evaluation of online and blended learning environments, while many faculty and trainers also do not have this knowledge or experience. Faculty members in some institutions may have experience with the use of instructional technology and faculty may have experience with the use of instructional technology and faculty may have experience with the use of instructional technology and faculty may have experience with the use of instructional technology and faculty may have experience with the use of instructional technology and faculty may have experience with the use of instructional technology and faculty may have experience with the use of instructional technology and faculty may have experience with the use of instructional technology and faculty may have experience with the use of instructional technology and faculty may have experience with the use of instructional technology and faculty may have experience with the use of instructional technology and faculty may have experience with the use of instructional technology and faculty may have experience with the use of instructional technology and faculty may have 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advances. Featuring coverage on a wide range of topics, such as computer-assisted language learning, flipped instruction, and teacher education, this publication is geared toward researchers, practitioners, and education professionals seeking relevant research on the improvement of language education through the use of technology.

This book focuses on selected best practices for effective active learning in Higher Education. Contributors present the epistemology of active learning along with specific case studies from different disciplines and countries. Discussing issues around ICTs, collaborative learning, experiential learning and other active learning strategies.

The flipped classroom method, particularly when used with digital video, has recently attracted many supporters within the education field. Now more than ever, language arts educators can benefit tremendously from incorporating flipped classroom techniques into their curriculum. Applying the Flipped Classroom Model to English Language Arts Education provides a comprehensive examination of the latest strategies for incorporating the flipped classroom technique into English language courses. Highlighting innovative practices and applications in many areas, such as curriculum development, digital tools, and instructional design, this book is an ideal reference source for academicians, educators, students, practitioners, and researchers who are interested in the advancement of the flipped classroom model in curriculums.

The notion of a flipped classroom draws on such concepts as active learning, student engagement, hybrid course design, and course podcasting. The value of a flipped class is in the repurposing of class time into a workshop where students can inquire about lecture content, test their skills in applying knowledge, and interact with one another in hands-on activities. The Handbook of Research on Active Learning and the Flipped Classroom Model in the Digital Age highlights current research on the latest trends in education with an emphasis on the technologies being used to meet learning objectives. Focusing on teaching strategies, learner engagement, student interaction, and digital tools for learning, this handbook of research is an essential resource for current and future educators, instructional designers, IT specialists, school administrators, and researchers in the field of education.

The Fourth Industrial Revolution is introducing automation technology into all major disciplines, including business, engineering, and education. Higher education institutions need to incorporate this digital transformation in order to remain competitive. Redesigning Higher Education Initiatives for Industry 4.0 is an essential reference source that discusses education strategies for human-computer interactions in an automated world and the role of education in conjunction with artificial intelligence and virtual technologies. Featuring research on topics such as e-learning, mobile devices, and artificial intelligence, this book is ideally designed for professionals, IT specialists, researchers, librarians, administrators, and educators.

In the past few years, there has been an influx of immigrant children into the school system, many with a limited understanding of English. Successfully teaching these students requires educators to understand their characteristics and to learn how to engage immigrant families to support their children’s academic achievements. The Handbook of Research on Engaging Immigrant Families and Promoting Academic Success for English Language Learners is a collection of innovative research that utilizes teacher professional development models, assessment practices, teaching strategies, and parental involvement strategies to develop ways for communities and educators to create social and academic success for all students. Featuring the promising practices of the Alabama Black Belt region, this book is ideally designed for early childhood, elementary, middle, K-12, and secondary school teachers; school administrators; faculty; academicians; and researchers.

“This reference brings together an impressive array of research on the development of Science, Technology, Engineering, and Mathematics curricula at all educational levels”--Provided by publisher.

Improving STEM (science, technology, engineering, and mathematics) education and strengthening the STEM workforce have long been acknowledged as national priorities. Ceaseless efforts have been made to address these national priorities through educational research, innovative STEM education initiatives, and professional development for teachers. Engaging STEM Students From Rural Areas: Emerging Research and Opportunities is an essential reference source that discusses the potential of rural schools to impact the STEM workforce pipeline, as well as Project Engage, an educational program for preparing rural undergraduate students from the Alabama Black Belt region. Featuring research on topics such as the three-pillar approach for preparing tomorrow’s STEM professionals, this book is ideally designed for academicians, STEM educational researchers, STEM educators, and individuals seeking coverage on techniques to improve the undergraduate STEM education framework.

In the past decade, traditional classroom teaching models have been transformed in order to better promote active learning and learner engagement. Implementation and Critical Assessment of the Flipped Classroom Experience seeks to capture the momentum of non-traditional teaching methods and provide a necessary resource for individuals who are interested in taking advantage of this pedagogical endeavor. Using narrative explanations and foundation materials provided by experienced instructors, this premier reference work presents the benefits and challenges of flipped methodology implementation in today’s classroom to educators and educational administrators across all disciplines and levels.

“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”--

Learn what a flipped classroom is and why it works, and get the information you need to flip a classroom. You’ll also learn the flipped mastery model, where students learn at their own pace, furthering opportunities for personalized education. This simple concept is easily replicable in any classroom, doesn’t cost much to implement, and helps foster self-directed learning. Once you flip, you won’t want to go back!

Ensure personalized student learning with this breakthrough approach to the Flipped Classroom! This groundbreaking guide helps you identify and address diverse student needs within the flipped classroom. You’ll find practical, standards-aligned solutions to help you design and implement carefully planned at-home and at-school learning experiences, all while checking for individual student understanding. Differentiate learning for all students with research-based best practices to help you: Integrate Flipped Learning and Differentiated Instruction Use technology as a meaningful learning tool Proactively use formative assessments Support, challenge, and motivate diverse learners Includes real-world examples and a resource-rich appendix.

Different regions of the world are making increasing demands for educational reform, especially when institutions are dissatisfied with the level of proficiency of their graduates. Since the realization of how important English education is to global success, reform to English education is becoming progressively vital in societies all over the world. The Handbook of Research on Curriculum Reform Initiatives in English Education provides research exploring the theoretical and practical aspects of a variety of areas related to English education and reform, as well as applications within curriculum development and instructional design. Featuring coverage on a broad range of topics such as teachers’ roles, teaching methods, and professional development, this book is ideally designed for researchers, educators, administrators, policymakers, interpreters, translators, and linguists seeking current research on the existing body of knowledge about curriculum reform in English education in an international context.

Educational pedagogy is a diverse field of study, one that all educators should be aware of and fluent in so that their classrooms may succeed. Curriculum Design and Classroom Management: Concepts, Methodologies, Tools, and Applications presents cutting-edge research on the development and implementation of various tools used to maintain the learning environment and present information to pupils as effectively as possible. In addition to educators and students of education, this multi-volume reference is intended for educational theorists, administrators, and industry professionals at all levels.

Technology is constantly evolving and can now aid society with the quest for knowledge in education systems. It is important to integrate the most recent technological advances into curriculums and classrooms, so the learning process can evolve just as technology has done. The Handbook of Research on Transformative Digital Content and Learning Technologies provides fresh insight into the most recent advancements and issues regarding educational technologies in contemporary classroom environments. Featuring detailed coverage on a variety of topics, such as mobile technology integration, ICT literacy integration, digital wellness, online group counseling, and distance learning, this publication will appeal to researchers and practitioners who are interested in discovering more about technological integration in education.

Active blended learning (ABL) is a pedagogical approach that combines sensemaking activities with focused interactions in appropriate learning settings. ABL has become a great learning tool as it is easily accessible online, with digitally rich environments, close peer and tutor interactions, and accommodations per individual learner needs. It encompasses a variety of concepts, methods, and techniques, such as collaborative learning, experiential methods, and project-based learning, team-based learning, and flipped classrooms. ABL is a tool used by educators to develop learner autonomy, engaging students in knowledge construction, reflection, and critique. In the current educational landscape, there is a strong case for the implementation of ABL. Cases on Active Blended Learning in Higher Education explores strategies and methods to implement ABL in
higher education. It will provide insights into teaching practice by describing the experiences and reflections of academics from around the world. The chapters analyze enablers, barriers to engagement, outcomes, implications, and recommendations to benefit from ABL in different contexts, as well as associated concepts and models. While highlighting topics such as personalized university courses, remote service learning, team-based learning, and universal design, this book is ideal for in-service and preservice teachers, administrators, instructional designers, teacher educators, practitioners, researchers, academicians, and students interested in pedagogical approaches aligned to ABL and how this works in higher education institutions.

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.

The integration of technology into modern classrooms has enhanced learning opportunities for students. With increased access to educational content, students gain a better understanding of the concepts being taught. Flipped Instruction: Breakthroughs in Research and Practice is a comprehensive reference source for the latest scholarly perspectives on promoting flipped learning strategies, tools, and theories in classroom environments. Featuring a range of extensive coverage across innovative topics, such as student engagement, educational technologies, and online learning environments, this is an essential publication for educators, professionals, researchers, academics, and upper-level students interested in emerging developments in classroom and instructional design.

Online learning has become a prominent and inseparable component of higher education in recent years. Questions related to course structure, levels of interaction, presence, and participation within online courses persist and invite further inquiry for determining factors that encourage effective teaching and learning in online environments. The Handbook of Research on Strategic Management of Interaction, Presence, and Participation in Online Courses explores models of course development and delivery techniques to improve instruction, learning, and student satisfaction in online courses. Covering topics such as rates of participation, student engagement and retention, and social development, this handbook serves as a resource for educators in online learning environments, as well as for course designers and developers of online courses and researchers whose agenda includes examining interaction, presence, and participation in online courses.

This book explores the latest research trends in intelligent systems and smart applications. It presents high-quality empirical and review studies focusing on various topics, including information systems and software engineering, knowledge management, technology in education, emerging technologies, and social networks. It provides insights into the theoretical and practical aspects of intelligent systems and smart applications.

The delivery of quality education to students relies heavily on the actions of an institution’s administrative staff. Effective teaching strategies allow for the continued progress of modern educational systems. Student Engagement and Participation: A Comprehensive Guide explores models of course development and delivery techniques to improve instruction, learning, and student satisfaction in online courses. Covering topics such as rates of participation, student engagement and retention, and social development, this handbook serves as a resource for educators in online learning environments, as well as for course designers and developers of online courses and researchers whose agenda includes examining interaction, presence, and participation in online courses.

"This book focuses on an in-depth assessment on strategies and instructional design practices appropriate for the flipped classroom model, highlighting the benefits, shortcomings, perceptions, and academic results of the flipped classroom model"—Provided by publisher.

In a diverse society, the ability to cross communication barriers is critical to the success of any individual personally, professionally, and academically. With the constant acceleration of course programs and technology, educators are continually being challenged to develop and implement creative methods for engaging English-speaking and non-English-speaking learners. Computer-Assisted Language Learning: Concepts, Methodologies, Tools, and Applications is a vital reference source that examines the relationship between language education and technology and the potential for curriculum enhancements through the use of mobile technologies, flipped instruction, and language-learning software. This multi-volume book is geared toward educators, researchers, academics, linguists, and upper-level students seeking relevant research on the improvement of language education through the use of technology.

Traditional classroom learning environments are quickly becoming a thing of the past as research continues to support the integration of learning outside of a structured school environment. Blended learning, in particular, offers the best of both worlds, combining classroom learning with mobile and web-based learning environments. Blended Learning: Concepts, Methodologies, Tools, and Applications explores emerging trends, case studies, and digital tools for hybrid learning in modern educational settings. Focusing on the latest trends as well as effective pedagogical practices, this critical multi-volume set is a comprehensive resource for instructional designers, educators, administrators, and graduate-level students in the field of education.

A guide to both theory and practice of blended learning offering rigorous research, case studies, and methods for the assessment of educational effectiveness. Blended learning combines traditional in-person learning with technology-enabled education. Its pedagogical aim is to merge the scale, asynchrony, and flexibility of online learning with the benefits of the traditional classroom—content-rich instruction and the development of learning relationships. This book offers a guide to both theory and practice of blended learning, offering rigorous research, case studies, and methods for the assessment of educational effectiveness. The contributors to this volume adopt a range of approaches to blended learning and different models of implementation and offer guidelines for both researchers and instructors, considering such issues as research design and data collection.

In these courses, instructors addressed problems they had noted in traditional classrooms, attempting to enhance student engagement, include more active learning strategies, approximate real-world problem solving, and reach non-majors. The volume offers a cross-section of approaches from one institution, Georgia Tech, to provide a deeper understanding of blended learning. It includes the methodology of Blended Education and Participation: Concepts, Methodologies, Tools, and Applications, the first comprehensive text on technology integration in the video game Assassin's Creed II for a research methods class for psychology and computer science students. Blended Learning will be an essential resource for educators, researchers, administrators, and policy makers.

Contributors: Joe Bankoff, Paula Braun, Mark Brausen, Marion L. Brittain, Timothy G. Buchman, Rebecca E. Burnett, Aldo A. Ferri, Bonnie Ferri, Andy Fraze, Mohammed M. Ghassan, Ashok K. Goel, Alyson B. Goodman, Joyelle Harris, Cheryl Hildreth, David Joyner, Robert S. Kadel, Kenneth J. Knoespel, Joe Le Doux, Amanda M. Madden, Lauren Marguleaux, Olga Menagarishvili, Shamim Nematl, Vjolta Sadrja, Donald Webster

Flipped classroom pioneers Jonathan Bergman and Aaron Sams take their revolutionary educational philosophy to the next level in Flipped Learning. Building on the energy of the thousands of educators inspired by the influential book Flip Your Classroom, this installment is all about what happens next -- when a classroom is truly student-centered and teachers are free to engage with students on an individual level.

Teaching and learning within higher education continues to evolve with innovative and new practices such as flipped teaching. This book contributes to the literature by developing a more in-depth understanding of the complex phenomenon of flipped classroom approaches within higher education. It also serves as a practical guide to implementing flipped teaching in academic practice across different higher educational institutions and disciplines. Part 1 of this book (Practice) describes the considerations involved in flipped classroom teaching, including the challenges faced in transforming teaching and learning within higher education. Further, it reviews the educational concepts on which the flipped classroom is based, including a selected history of similar innovations in the past. The final sections of Part 1 explore the tools needed for flipping, the design steps, assessment methods and the role of reflective practice within flipped teaching environments.

Part 2 of the book (Practices) provides a range of case studies from higher educational institutions in different countries and disciplines to demonstrate the many shapes and sizes of flipped classrooms. Many of the challenges, such as engaging students in their own learning and shifting them from spectators in the learning process to active participants, prove to be universal.

The digitization changes qualification demands of knowledge workers and opens new forms of collaboration. Solutions are required for enhancing acquisition and transfer of knowledge as well as training professional skills such as creative thinking, communication, and cooperation. Peer Learning (PL) provides potential for coping with these demands. However, it faces practical challenges as its reusability is low, collaboration expertise is required, and lacks leveraging digitization potentials. In contrast, the body of Collaboration Engineering (CE) literature, provides insights as it is an approach to designing collaborative work practices for high-value recurring tasks and deploying those to practitioners to execute for themselves without collaboration expertise. In this light, three research questions without structure of the thesis. First, the thesis shows an analysis of the application domain and develops a teaching-learning approach for creating conditions for PL in large scale lectures. Second, it proposes an approach to designing reference processes for enhancing PL. Third, it presents three studies that illustrate the design, instantiation and evaluation of reference processes for enhancing PL in the field. As methodological approach the thesis uses Design Science and develops, instantiates and evaluates re-usable reference processes for enhancing PL.

This book addresses main issues concerned with the future learning, learning and academic analytics, virtual world and smart user interface, and mobile learning. This book
gathers the newest research results of smart learning environments from the aspects of learning, pedagogies, and technologies in learning. It examines the advances in technology development and changes in the field of education that has been affecting and reshaping the learning environment. Then, it proposes that under the changed technological situations, smart learning systems, no matter what platforms (i.e., personal computers, smart phones, and tablets) they are running at, should be aware of the preferences and needs that their users (i.e., the learners and teachers) have, be capable of providing their users with the most appropriate services, helps to enhance the users’ learning experiences, and to make the learning efficient.

The integration of technology has become an integral part of the educational environment. By developing new methods of online learning, students can be further aided in reaching goals and effectively solving problems. The Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education is an authoritative reference source for the latest scholarly research on the implementation of instructional strategies, tools, and innovations in online learning environments. Featuring extensive coverage across a range of relevant perspectives and topics, such as social constructivism, collaborative learning and projects, and virtual worlds, this publication is ideally designed for academicians, practitioners, and researchers seeking current research on best methods to effectively incorporate technology into the learning environment.

The Routledge Handbook of English Language Teaching is the definitive reference volume for postgraduate and advanced undergraduate students of Applied Linguistics, ELT/TESOL, and Language Teacher Education, and for ELT professionals engaged in in-service teacher development and/or undertaking academic study. Progressing from ‘broader’ contextual issues to a ‘narrower’ focus on classrooms and classroom discourse, the volume’s inter-related themes focus on: ELT in the world; contexts and goals planning and organising ELT; curriculum, resources and settings; and methodology: perspectives and practices in second language learning and learners teaching language: knowledge, skills and pedagogy understanding the language classroom. The Handbook’s 39 chapters are written by leading figures in ELT from around the world. Mindful of the diverse pedagogical, institutional and social contexts for ELT, they convincingly present the key issues, areas of debate and dispute, and likely future developments in ELT from an applied linguistics perspective. Throughout the volume, readers are encouraged to develop their own thinking and practice in contextually appropriate ways, assisted by discussion questions and suggestions for further reading that accompany every chapter. Advisory board: Guy Cook, Diane Larsen-Freeman, Amy Tsui, and Steve Walsh

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.

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