

MOBILE LEARNING AND STEM

CASE STUDIES IN PRACTICE

HELEN CROMPTON AND JOHN TRAYLER



Mobile Learning Stem Studies Practice

Khosrow-Pour, D.B.A., Mehdi



Mobile Learning Stem Studies Practice:

Mobile Learning and STEM Helen Crompton, John Traxler, 2015-12-07 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 *New Approaches in Mobile Learning for Early Childhood Education* Papadakis, Stamatios, Kalogiannakis, Michail, 2024-07-22 As personal computing devices transition from traditional computers to contemporary mobile platforms a global revolution in technology based learning is underway In the context of contemporary education a critical challenge involves aligning traditional pedagogical methods with the developmental needs of today s learners The intersection of Information and Communication Technologies ICT and education is pivotal with mobile devices emerging as transformative catalysts *New Approaches in Mobile Learning for Early Childhood Education* explores the advantages inherent in mobile learning highlighting various forms of ICT as technically appropriate tools that cater to the developmental needs of children The book underscores the distinctive benefits of mobile learning such as heightened user motivation intuitive usability and high accessibility and reliability It positions ICT as an indispensable asset overshadowing conventional teaching approaches and emphasizes the principal benefit of these advancements the facilitation of accelerated and more effective learning in education Within the pages of this book empirical studies unravel the transformative potential of mobile learning applications and their corresponding pedagogical strategies Tailored for educators researchers and policymakers the book delves into diverse subject domains and age groups navigating through topics such as mobile learning intricacies educational applications for children and innovative science and mathematics education strategies [Mobile Learning in Schools](#) Jocelyn Wishart, 2017-10-03 *Mobile Learning in Schools* explores the potential for using mobile devices in diverse school and college settings around the globe It evaluates the exciting opportunities mobile initiatives bring and shares experience of where things can go wrong in order to ensure that those embarking on new projects are fully informed Drawing on a wide

range of international perspectives it unpicks knotty sociocultural issues including lack of sustainability behavioural and ethical concerns and explores successful student learning Key issues considered include mobile learning in primary schools teaching and learning with mobile devices in secondary schools opportunities inside and outside school pedagogical principles and sustainability mobile learning for initial teacher training and CPD ethical considerations behaviour matters disruption plagiarism cheating cyberbullying assessing mobile learning With annotated further reading and questions to trigger reflection and further discussion amongst readers this thought provoking text provides a detailed survey of this often controversial topic It is essential reading for all those engaged in understanding the potential for using mobile devices to support students learning

Rethinking Pedagogy for a Digital Age Helen Beetham,Rhona Sharpe,2019-06-21

Rethinking Pedagogy for a Digital Age examines contemporary issues in the design and delivery of effective learning through a critical discussion of the theoretical and professional perspectives informing current digital education practice This third edition has been thoroughly revised to address socio cultural approaches learning analytics curriculum change and key theoretical developments from education sciences Illustrated by case studies across disciplines and continents for a diversity of researchers practitioners and lecturers the book is an essential guide to learning technologies that is pedagogically sound learner focused and accessible

The Oxford Handbook of Mobile Communication and Society Richard Seyler

Ling,Leopoldina Fortunati,Gerard Goggin,Sun Sun Lim,Yuling Li,2020 This book examines the social consequences of mobile communication in the era of the smartphone and how the smartphone has positively and negatively impacted society

Handbook of Research on Mobile Learning in Contemporary Classrooms Mentor, Dominic,2016-06-27 It is the responsibility of educators to utilize contemporary avenues in order to reach their students in ways familiar to them When teaching digital natives new techniques are necessary for making new information relevant to their experience One way to do this is through the use of mobile devices in curricula This integration can make education accessible anywhere and to anyone personalized to each student s schedule and needs The Handbook of Research on Mobile Learning in Contemporary Classrooms expounds the current research on m learning and strategies to leverage mobile devices in educational contexts It also addresses the importance of communication community and mobility in modern classrooms while offering a comprehensive overview of the theory and pedagogy associated with this new technology Nonprofit organizers K 12 educators administrators policy makers students of education and developers will find this book to be an important research companion

Mobile Learning Applications in Early Childhood Education Papadakis, Stamatios,Kalogiannakis,

Michail,2019-11-29 Mobile technologies combined with an interdisciplinary approach to knowledge and organization of learning experiences that are meaningful to children could create a creative and interactive learning environment different from that of traditional teaching Making good use of mobile learning with appropriate devices will increase the learning motivations of the students and help them bring about positive performance Mobile Learning Applications in Early Childhood

Education is a collection of innovative research on the methods and applications of mobile learning techniques and strategies within diversified teaching settings While highlighting topics including computational thinking ubiquitous learning and social development this book is ideally designed for researchers teachers parents curriculum developers instructional designers academicians students and practitioners seeking current research on the application of mobile technology within child education

Handbook of Research in Educational Communications and Technology M. J. Bishop, Elizabeth Boling, Jan Elen, Vanessa Svihla, 2020-09-21 The 5th edition of the prestigious AECT Handbook continues previous efforts to reach outside the traditional instructional design and technology community to the learning sciences and computer information systems communities toward developing a conceptualization of the field However given the pervasive and increasingly complex role technology now plays in education since the 1st edition of the Handbook in 1996 the editors have reorganized the research chapters in this edition to focus on the learning problems we are trying to solve with educational technologies rather than to focus on the things we are using to solve those problems Additionally for the first time this edition of the Handbook reflects our field's growing understanding of the importance of design scholarship to inform practice by including design case chapters These changes for this edition of the Handbook are intended to bring educational technology research into the broader framework of educational research by elaborating on the role instructional design and technology plays as a scholarly discipline in addressing education's increasingly complex issues Provides comprehensive reviews of new developments in educational technology research and design practice Includes concrete examples to guide future research and practice in the ways emerging technologies can be used to solve educational problems Contains extensive references furnished to guide readers to the most recent research and design practice in the field of instructional design and technology

Advanced Methodologies and Technologies in Modern Education Delivery Khosrow-Pour, D.B.A., Mehdi, 2018-09-21 Recent innovations and new technologies in education have altered the way teachers approach instruction and learning and can provide countless advantages The pedagogical value of specific technology tools and the cumulative effects of technology exposure on student learning over time are two areas that need to be explored to better determine the improvements needed in the modern classroom *Advanced Methodologies and Technologies in Modern Education Delivery* provides emerging research on educational models in the continually improving classroom While highlighting the challenges facing modern in service and pre service teachers when educating students readers will learn information on new methods in curriculum development instructional design and learning assessments to implement within their classrooms This book is a vital resource for pre service and in service teachers teacher education professionals higher education administrative professionals and researchers interested in new curriculum development

Handbook of Research on Using Educational Robotics to Facilitate Student Learning Papadakis, Stamatios, Kalogiannakis, Michail, 2020-12-05 Over the last few years increasing attention has been focused on the development of children's acquisition of 21st century skills and

digital competences Consequently many education scholars have argued that teaching technology to young children is vital in keeping up with 21st century employment patterns Technologies such as those that involve robotics or coding apps come at a time when the demand for computing jobs around the globe is at an all time high while its supply is at an all time low There is no doubt that coding with robotics is a wonderful tool for learners of all ages as it provides a catalyst to introduce them to computational thinking algorithmic thinking and project management Additionally recent studies argue that the use of a developmentally appropriate robotics curriculum can help to change negative stereotypes and ideas children may initially have about technology and engineering The Handbook of Research on Using Educational Robotics to Facilitate Student Learning is an edited book that advocates for a new approach to computational thinking and computing education with the use of educational robotics and coding apps The book argues that while learning about computing young people should also have opportunities to create with computing which have a direct impact on their lives and their communities It develops two key dimensions for understanding and developing educational experiences that support students in engaging in computational action 1 computational identity which shows the importance of young people s development of scientific identity for future STEM growth and 2 digital empowerment to instill the belief that they can put their computational identity into action in authentic and meaningful ways Covering subthemes including student competency and assessment programming education and teacher and mentor development this book is ideal for teachers instructional designers educational technology developers school administrators academicians researchers and students

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