

Mobile Learning And Mathematics

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Handbook of Mobile Learning - Zane L. Berge 2013-06-19
Winner of the AECT Division of Distance Learning (DDL) Distance Education Book Award! This handbook provides a comprehensive compendium of research in all aspects of mobile learning, one of the most significant ongoing global developments in the entire field of education. Rather than focus on specific technologies, expert authors discuss how best to utilize technology in the service of improving teaching and learning. For more than a decade, researchers and practitioners have been exploring this area of study as the growing popularity of smartphones, tablets, and other such devices, as well as the increasingly sophisticated applications for these devices, has allowed educators to accommodate and support an increasingly mobile society. This handbook provides the first authoritative account of the theory and research that underlies mobile learning, while also exemplifying models of current and future practice.

Figuring Out Fluency in Mathematics Teaching and Learning, Grades K-8 - Jennifer M. Bay-Williams 2021-03-11

Because fluency practice is not a worksheet. Fluency in mathematics is more than adeptly using basic facts or implementing algorithms. Real fluency involves reasoning and creativity, and it varies by the situation at hand. *Figuring Out Fluency in Mathematics Teaching and Learning* offers educators the inspiration to develop a deeper understanding of procedural fluency, along with a plethora of pragmatic tools for shifting classrooms toward a fluency approach. In a friendly and accessible style, this hands-on guide empowers educators to support students in acquiring the repertoire of reasoning strategies necessary to becoming versatile and nimble mathematical thinkers. It includes: "Seven Significant Strategies" to teach to students as they work toward procedural fluency. Activities, fluency routines, and games that encourage learning the efficiency, flexibility, and accuracy essential to real fluency. Reflection questions, connections to mathematical standards, and techniques for assessing all components of fluency. Suggestions for engaging families in understanding and supporting fluency. Fluency is more than a toolbox of strategies to choose from; it's also a matter of equity and access for all learners. Give your students the knowledge and power to become confident mathematical thinkers.

Integrating Touch-Enabled and Mobile Devices into Contemporary Mathematics Education - Meletiou-Mavrotheris, Maria 2015-07-13

Despite increased interest in mobile devices as learning tools, the amount of available primary research studies on their integration into mathematics teaching and learning is still relatively small due to the novelty of these technologies. *Integrating Touch-Enabled and Mobile Devices into Contemporary Mathematics Education* presents the best practices in mathematics education research and teaching practice by providing an account of current and future trends and issues in mobile mathematics learning and associated technologies and educational methodologies. This edited volume approaches a broad audience including researchers and practitioners interested in the exploitation of mobile technologies in mathematics teaching and learning, as well as mathematics teachers at all levels. This premier reference source compiles the best practices and recommended processes for effectively utilizing the vast capabilities of mobile technologies in the mathematics classroom through a collection of chapters covering topics including, but not limited to, touch-enabled virtual mapping, perceptual learning technologies, mobile teaching, statistics apps for mobile devices, smartphones for the visually impaired, pedagogical and instructional design, and touch screen interfaces in algebraic instruction.

The Mobile Learning Edge: Tools and Technologies for Developing Your Teams - Gary Woodill 2010-09-10

Engage and teach your team wherever and whenever—from one of the world's leading e-learning authorities. The digital electronics revolution keeps us connected with almost anyone around the world and makes information available anywhere, at anytime. In the workplace, the impact has been great, propelling mobile learning to the forefront of training and education. Dr. Gary Woodill, a senior analyst at a leading e-learning research firm shows you how mobile learning is evolving, and how organizations can use it more efficiently and effectively—with companies reaping the rewards of increased communication, teamwork, productivity and profitability. Learn how to break free from the old notions of training and development with the concrete strategies in *The Mobile Learning Edge* and Become skilled in the seven principles of successfully training employees on the move Implement new learning programs that employees can access anywhere Develop a future mobile learning strategy in an ever-changing environment Discover what might be the right kind of mobile technologies for your company With *The Mobile Learning Edge* you'll go beyond applications and content and be able to create engaging and productive mobile learning for your team.

According to a recent study, there's one mobile device for every two people in the world, and the technology making these devices smarter and more connected is improving almost daily. The real revolution is that mobile learning releases learners from the classroom where they are immobilized, and allows them to learn at "anytime, anyplace." In *The Mobile Learning Edge*, Dr. Gary Woodill outlines the most effective methodologies for training and engaging employees on the move and takes the person out of the classroom, while keeping learners connected to the information they need at all times. *The Mobile Learning Edge* features: Information on the social media and enabled devices that can serve your mobile learning Concrete strategies for how your business can use mobile learning to train, educate, and instruct employees anywhere Pointers on information gathering and analysis on the fly Innovative ideas for creating effective mobile learning experiences Comprehensive strategies for anticipating future mobile learning needs and developments You'll find a wealth of information about the history of this emerging field, retrieving information, methods for learning, applications, uses, and experiences—and how to put it all together to build a mobile learning system that's right for your team. Using case studies, Woodill shows how you can emulate the successes of corporations like Nike, Accenture, and Merrill Lynch in using micro-blogging, cloud computing, mobile gaming, intermodal mashups, virtual worlds, collective intelligence, and other mobile learning platforms to take your business's recruitment, training, communication, and collaboration functions to the next level.

Mobile Learning - Mohamed Ally 2009

This collection is directed towards anyone interested in the use of mobile learning for various applications. Readers will discover how to design learning materials for delivery on mobile technology and become familiar with the best practices of other educators, trainers, and researchers in the field as well as the most recent research initiatives in mobile learning. Businesses and governments can find out how to deliver timely information to staff using mobile devices. Professors and trainers can use this book as a textbook in courses on distance education, mobile learning, and educational technology. In fact, the book can be used by anyone interested in delivering education and training at a distance, but especially by graduate students of emerging technology in learning.

Ethnomathematics and its Diverse Approaches for Mathematics Education - Milton Rosa 2017-07-25

This book addresses numerous issues related to ethnomathematics and diverse approaches to it in the context of mathematics education. To help

readers better understand the development of ethnomathematics, it discusses its objectives and assumptions with regard to promoting an ethics of respect, solidarity, and cooperation across and for all cultures. In turn, the book addresses a range of aspects including pedagogical action, culturally relevant pedagogy, innovative approaches to ethnomathematics, and the role of ethnomathematics in mathematics education. Ethnomathematics offers educators a valuable framework for transforming mathematics so that it can more actively contribute to realizing the dream of a just and humane society. As such, its primary goal is to forge mathematics into a powerful tool to help people create a society characterized by dignity for all, and in which iniquity, arrogance, violence, and bigotry have no place.

Theorising and Implementing Mobile Learning - Matthew Kearney 2020-11-10

This book focuses on teaching and learning with mobile technologies, with a particular emphasis on school and teacher education contexts. It explains a robust, highly-acclaimed contemporary mobile pedagogical framework (iPAC) that focuses on three distinct mobile pedagogies: personalisation, authenticity and collaboration. The book shows how mobile pedagogical practice can benefit from use of this framework. It offers numerous cutting-edge research resources and examples that supplement theoretical discussions. It considers directions for future research and practice. Readers will gain insights into the potential of current and emerging learning technologies in school and teacher education.

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.

Learning with Mobile Technologies, Handheld Devices, and Smart Phones: Innovative Methods - Lu, Zhongyu (Joan) 2012-04-30

"This book presents a collection of innovative research that focuses on learning in the digital world with advanced mobile technologies"-- Provided by publisher.

Mobile Learning and STEM - Helen Crompton 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.

Mathematics for Machine Learning - Marc Peter Deisenroth 2020-04-23

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to

efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Mathematical Modelling Education in East and West - Frederick Koon Shing Leung 2021-04-26

This book documents ongoing research and theorizing in the sub-field of mathematics education devoted to the teaching and learning of mathematical modelling and applications. Mathematical modelling provides a way of conceiving and resolving problems in people's everyday lives as well as sophisticated new problems for society at large. Mathematical tradition in China that emphasizes algorithm and computation has now seen a renaissance in mathematical modelling and applications where China has made significant progress with its economy, science and technology. In recent decades, teaching and learning of mathematical modelling as well as contests in mathematical modelling have been flourishing at different levels of education in China. Today, teachers and researchers in China become keener to learn from their colleagues from Western countries and other parts of the world in research and teaching of mathematical modelling and applications. The book provides a dialogue and communication between colleagues from across the globe with new impetus and resources for mathematical modelling education and its research in both West and East with new ideas on modelling teaching and practices, inside and outside classrooms. All authors of this book are members of the International Community of Teachers of Mathematical Modelling and Applications (ICTMA), the peak research body into researching the teaching, assessing and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace. The book is of interest to researchers, mathematics educators, teacher educators, education administrators, policy writers, curriculum developers, professional developers, in-service teachers and pre-service teachers including those interested in mathematical literacy. *Mobile Learning and Mathematics* - Helen Crompton 2015-02-11 *Mobile Learning and Mathematics* provides an overview of current research on how mobile devices are supporting mathematics educators in classrooms across the globe. Through nine case studies, chapter authors investigate the use of mobile technologies over a range of grade levels and mathematical topics, while connecting chapters provide a strong foundational background in mobile learning theories, instructional design, and learner support. For current educators, *Mobile Learning and Mathematics* provides concrete ideas and strategies for integrating mobile learning into their mathematics instruction—for example, by sharing resources that will help implement Common Core State Standards, or by streamlining the process of selecting from the competing and often confusing technology options currently available. A cutting edge research volume, this collection also provides a springboard for educational researchers to conduct further study.

Doing the Scholarship of Teaching and Learning in Mathematics - Jacqueline M. Dewar 2014-11-03

The Scholarship of Teaching and Learning (SoTL) movement encourages faculty to view teaching "problems" as invitations to conduct scholarly investigations. In this growing field of inquiry faculty bring their disciplinary knowledge and teaching experience to bear on questions of teaching and learning. They systematically gather evidence to develop and support their conclusions. The results are to be peer reviewed and made public for others to build on. This Notes volume is written expressly for collegiate mathematics faculty who want to know more about conducting scholarly investigations into their teaching and their students' learning. Envisioned and edited by two mathematics faculty, the volume serves as a how-to guide for doing SoTL in mathematics.

Mobile Learning and STEM - Helen Crompton 2016

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.

Innovations in Mobile Educational Technologies and Applications - Parsons, David 2012-10-31

The current educational system continues to face challenges in the wake of new technological advancements in our society. Continuous advances in education technology have provided the mobile learning community with inquiries on how these innovative devices may be used for teaching. *Innovations in Mobile Educational Technologies and Applications* presents a collection of knowledge on the developments and approaches of mobile educational technology. Bringing together points of view from both technological and pedagogical practices, this book aims to enhance interest in nontraditional approaches to learning.

Mobile Learning - Scott McQuiggan 2015-03-04

Explore the game-changing technology that allows mobile learning to effectively reach K-12 students. *Mobile Learning: A Handbook for Developers, Educators and Learners* provides research-based foundations for developing, evaluating, and integrating effective mobile learning pedagogy. Twenty-first century students require twenty-first century technology, and mobile devices provide new and effective ways to educate children. But with new technologies come new challenges—therefore, this handbook presents a comprehensive look at mobile learning by synthesizing relevant theories and drawing practical conclusions for developers, educators, and students. Mobile devices—in ways that the laptop, the personal computer, and netbook computers have not—present the opportunity to make learning more engaging, interactive, and available in both traditional classroom settings and informal learning environments. From theory to practice, *Mobile Learning* explores how mobile devices are different than their technological predecessors, makes the case for developers, teachers, and parents to invest in the technology, and illustrates the many ways in which it is innovative, exciting, and effective in educating K-12 students. Explores how mobile devices can support the needs of students. Provides examples, screenshots, graphics, and visualizations to enhance the material presented in the book. Provides developers with the background necessary to create the apps their audience requires. Presents the case for mobile learning in and out of classrooms as early as preschool. Discusses how mobile learning enables better educational opportunities for the visually impaired, students with Autism, and adult learners. If you're a school administrator, teacher, app developer, or parent, this topical book provides a theoretical, well-researched discussion of the pedagogical theory and mobile learning, as well as practical advice in setting up a mobile learning strategy.

Mobile Learning Design - Daniel Churchill 2015-12-21

This book focuses on mobile learning design from both theoretical and practical perspectives. It introduces and discusses how mobile learning can be effectively integrated into curricula, highlighting the design of four key components of learning-centric pedagogy: Resource, Activity, Support and Evaluation in the context of mobile learning. It also investigates the learning theories underpinning mobile learning design, and includes case studies in different contexts. It provides practical insights that allow teachers to change and transform teaching practices using mobile technology. Anyone involved in mobile-technology enhanced learning and teaching will find this book both informative and useful.

Cases on Technology Integration in Mathematics Education - Polly, Drew 2014-09-30

Common Core education standards establish a clear set of specific ideas and skills that all students should be able to comprehend at each grade level. In an effort to meet these standards, educators are turning to technology for improved learning outcomes. *Cases on Technology and Common Core Mathematics* provides a compilation of cases and

vignettes about the application of technology in the classroom in order to enhance student understanding of math concepts. This book is a timely reference source for mathematics educators, educational technologists, and school district leaders employed in the mathematics education or educational technology fields.

The Evolution of Mobile Teaching and Learning - Retta Guy 2009

Mobile and Blended Learning Innovations for Improved Learning Outcomes - Parsons, David 2016-05-03

The integration of technology into educational settings has revolutionized classroom instruction in recent years. By properly utilizing available digital resources, students' learning experiences can be significantly enhanced. *Mobile and Blended Learning Innovations for Improved Learning Outcomes* is an authoritative reference source for the latest research on the use and benefits of technological tools in contemporary classrooms and showcases how these devices improve the overall learning process. Highlighting the distinctions and interactions between mobile and blended education, this book is ideally designed for practitioners, professionals, academicians, and students interested in the effective implementation of modern technology in the classroom.

Mobile Learning Applications in Early Childhood Education - Papadakis, Stamatios 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 Mobile Learning - Zane L. Berge 2013-06-19

Winner of the AECT Division of Distance Learning (DDL) Distance Education Book Award! This handbook provides a comprehensive compendium of research in all aspects of mobile learning, one of the most significant ongoing global developments in the entire field of education. Rather than focus on specific technologies, expert authors discuss how best to utilize technology in the service of improving teaching and learning. For more than a decade, researchers and practitioners have been exploring this area of study as the growing popularity of smartphones, tablets, and other such devices, as well as the increasingly sophisticated applications for these devices, has allowed educators to accommodate and support an increasingly mobile society. This handbook provides the first authoritative account of the theory and research that underlies mobile learning, while also exemplifying models of current and future practice.

Learning to Teach and Teaching to Learn Mathematics - Matt DeLong 2002

Addressing the need for tools to train college mathematics instructors in both basic teaching skills and innovative methods, this work describes training and mentoring activities that have been used in a variety of settings with new instructors, including graduate student teaching assistants, undergraduate tutors, graders, and lab assistants, as well as faculty. The book offers ideas for the structure of an integrated program of professional development, support material for a brief pre-semester orientation session, material for a semester-long program of weekly training meetings, and procedures and forms for conducting a system of class visits and feedback. This work lacks a subject index. DeLong is affiliated with Taylor University. Winter is affiliated with Harvard University. Annotation copyrighted by Book News Inc., Portland, OR.

Learning Mathematics in a Mobile App-Supported Math Trail Environment - Adi Nur Cahyono 2018-07-19

This brief presents the results of a study on the development of the mobile app-supported math trail program for learning mathematics. This study is a part of the MathCityMap-Project, a project of the MATIS I Team from IDMI Goethe-Universität Frankfurt, Germany, that comprises math trails around the city that are supported by the use of GPS-enabled mobile phone technology. The project offers an activity that is designed to support students in constructing their own mathematical knowledge by solving the prepared mathematical tasks on the math trail and

interacting with the environment, including the digital environment. The brief focuses specifically on the development of a model for a mobile app-supported math trail programme and the implementation of this programme in Indonesia. It offers both an empirical exploration of its implementation as well as critical assessment of students' motivation in mathematics, their own performance, as well as teachers' mathematics beliefs. It concludes with a future-forward perspective by recommending strategies for implementation in schools, among the general public of the existing math trails (including its supporting tool). It also discusses strategies for developing and designing new trails and suggests further research in other geographical regions and contexts for continued project development and implementation. Learning Mathematics in a Mobile App-Supported Math Trail Environment articulates an innovative and exciting future for integrating real mathematical tasks and geographic and digital environment into effective mathematics education.

Mobile Learning and Mathematics - Helen Crompton 2015

Mobile Learning and Mathematics provides an overview of current research on how mobile devices are supporting mathematics educators in classrooms across the globe. Through nine case studies, chapter authors investigate the use of mobile technologies over a range of grade levels and mathematical topics, while connecting chapters provide a strong foundational background in mobile learning theories, instructional design, and learner support. For current educators, Mobile Learning and Mathematics provides concrete ideas and strategies for integrating mobile learning into their mathematics instruction; for example, by sharing resources that will help implement Common Core State Standards, or by streamlining the process of selecting from the competing and often confusing technology options currently available. A cutting edge research volume, this collection also provides a springboard for educational researchers to conduct further study.

Human-Computer Interaction: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2015-10-02

As modern technologies continue to develop and evolve, the ability of users to interface with new systems becomes a paramount concern. Research into new ways for humans to make use of advanced computers and other such technologies is necessary to fully realize the potential of 21st century tools. Human-Computer Interaction: Concepts, Methodologies, Tools, and Applications gathers research on user interfaces for advanced technologies and how these interfaces can facilitate new developments in the fields of robotics, assistive technologies, and computational intelligence. This four-volume reference contains cutting-edge research for computer scientists; faculty and students of robotics, digital science, and networked communications; and clinicians invested in assistive technologies. This seminal reference work includes chapters on topics pertaining to system usability, interactive design, mobile interfaces, virtual worlds, and more.

Online Distance Education - Marcelo C. Borba 2010-01-01

This book will address the discussion on online distance education, teacher education, and how the mathematics is transformed with the Internet, based on examples that illustrate the possibilities of different course models and on the theoretical construct humans-with-media.

Emerging Trends and Advanced Technologies for Computational Intelligence - Liming Chen 2016-06-06

This book is a collection of extended chapters from the selected papers that were published in the proceedings of Science and Information (SAI) Conference 2015. It contains twenty-one chapters in the field of Computational Intelligence, which received highly recommended feedback during SAI Conference 2015 review process. During the three-day event 260 scientists, technology developers, young researcher including PhD students, and industrial practitioners from 56 countries have engaged intensively in presentations, demonstrations, open panel sessions and informal discussions.

Learning and Teaching Mathematics - Peter Bryant 2016-01-28

The authors of this volume, which is newly available in paperback, all hold the view that mathematics is a form of intelligent problem solving which plays an important part in children's lives outside the classroom as well as in it. Learning and Teaching Mathematics provides an exciting account of recent and radically different research on teaching and learning mathematics which will have a far reaching effect on views about mathematical education.

Internet of Things, Infrastructures and Mobile Applications -

Michael E. Auer 2020-09-10

This book gathers papers on interactive and collaborative mobile

learning environments, assessment, evaluation and research methods in mobile learning, mobile learning models, theory and pedagogy, open and distance mobile learning, life-long and informal learning using mobile devices, wearables and the Internet of Things, game-based learning, dynamic learning experiences, mobile systems and services for opening up education, mobile healthcare and training, case studies on mobile learning, and 5G network infrastructure. Today, interactive mobile technologies have become the core of many—if not all—fields of society. Not only do the younger generation of students expect a mobile working and learning environment, but also the new ideas, technologies and solutions introduced on a nearly daily basis also boost this trend.

Discussing and assessing key trends in the mobile field were the primary aims of the 13th International Conference on Interactive Mobile Communication Technologies and Learning (IMCL2019), which was held in Thessaloniki, Greece, from 31 October to 01 November 2019. Since being founded in 2006, the conference has been devoted to new approaches in interactive mobile technologies, with a focus on learning. The IMCL conferences have since become a central forum of the exchange of new research results and relevant trends, as well as best practices. The book's intended readership includes policymakers, academics, educators, researchers in pedagogy and learning theory, schoolteachers, further education lecturers, practitioners in the learning industry, etc.

Blended Learning: Concepts, Methodologies, Tools, and

Applications - Management Association, Information Resources 2016-08-18

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 technological innovations as well as effective pedagogical practice, this critical multi-volume set is a comprehensive resource for instructional designers, educators, administrators, and graduate-level students in the field of education.

Theorising and Implementing Mobile Learning - Matthew Kearney 2020-10-19

This book focuses on teaching and learning with mobile technologies, with a particular emphasis on school and teacher education contexts. It explains a robust, highly-acclaimed contemporary mobile pedagogical framework (iPAC) that focuses on three distinct mobile pedagogies: personalisation, authenticity and collaboration. The book shows how mobile pedagogical practice can benefit from use of this framework. It offers numerous cutting-edge research resources and examples that supplement theoretical discussions. It considers directions for future research and practice. Readers will gain insights into the potential of current and emerging learning technologies in school and teacher education.

INCOLWIS 2019 - Herry Nur Hidayat 2019-08-28

This book constitutes a through refereed proceedings of the International Conference on Local Wisdom - 2019, held on August, 29 - 30, 2019 at Universitas Andalas, Padang, Indonesia. The conference was organised by Fakultas Ilmu Budaya Universitas Andalas. The 95 full papers presented were carefully reviewed and selected from 135 submissions. The scope of the paper includes the followings: Local Wisdom in Science, Local Wisdom in Religion, Local Wisdom in Culture, Local Wisdom in Language, Local Wisdom in Literature, Local Wisdom in Health, Local Wisdom in Education, Local Wisdom in Law, Local Wisdom in Architecture, Local Wisdom in Nature, Local Wisdom in Oral Tradition, Local Wisdom in Art, Local Wisdom in Tourism, Local Wisdom in Environment, Local Wisdom in Communication, Local Wisdom in Agriculture.

Handbook of Mobile Teaching and Learning - Yu (Aimee) Zhang 2015-10-14

Mobile technologies have been used in higher education for many years. They provide good solutions for teaching and learning and make learning available anywhere and anytime. This book includes six sections: design, development, adoption, collaboration, evaluation and future of mobile teaching and learning technology in higher education. It includes different projects and practices in higher education across different countries. The book provides in-depth background information and cases studies in high technology teaching and learning and future expectations for new technology in higher education. The variety of projects and

programs running in different country helps boost innovation and discussion in future projects and practices. It also provide guidelines for future design and development of mobile applications for higher education.

Using Mobile Technologies in the Teaching and Learning of Mathematics - Nigel Calder 2018-08-09

Mobile technologies influence the way that we interact with the world, the way that we live. We use them for communication, entertainment, information and research. In education settings, there has been substantial investment in mobile devices, often without a concomitant investment in developing pedagogy and practices. With mobile technologies evolving rapidly, and the number of educational apps growing, there is a need for research into how they facilitate mathematics learning. Such research is of particular importance regarding how such devices may be used to open up new ways of envisaging mathematics and mathematics education, and to help develop conceptual rather than procedural or declarative knowledge. This volume draws upon international research and reports on a range of research projects that have incorporated mobile technologies for mathematics education. It presents research on the use of mobile technologies, such as iPads, iPods, iPhones, Androids, and Tablets, across a diverse range of cultures, year levels and contexts. It examines the ways in which mobile technologies, including apps, might influence students' engagement, cognition, collaboration and attitudes, through the reshaping of the learning experience. In addition, the book presents appropriate ways to integrate mobile technologies into teaching and learning programmes. It is a significant reference book for those involved with teaching mathematics or using mobile technologies in education, while also offering insights and examples that are applicable to the use of digital technologies in education generally.

Technology-Enhanced Learning - Nicolas Balacheff 2009-03-24

Technology-enhanced learning is a timely topic, the importance of which is recognized by educational researchers, practitioners, software designers, and policy makers. This volume presents and discusses current trends and issues in technology-enhanced learning from a European research and development perspective. This multifaceted and multidisciplinary topic is considered from four different viewpoints, each of which constitutes a separate section in the book. The sections include general as well as domain-specific principles of learning that have been found to play a significant role in technology-enhanced environments, ways to shape the environment to optimize learners' interactions and learning, and specific technologies used by the environment to empower learners. An additional section discusses the work presented in the preceding sections from a computer science perspective and an implementation perspective. This book comes out of the work in Kaleidoscope: a European Network of Excellence in which over 1,000 people from more than 90 institutes across Europe participate. Kaleidoscope brings together researchers from diverse disciplines and cultures, through their collaboration and sharing of scientific outcomes, they are helping move the field of technology-enhanced learning forward. *Uses of Technology in Upper Secondary Mathematics Education* - Stephen Hegedus 2016-11-02

This survey addresses the use of technology in upper secondary mathematics education from four points of view: theoretical analysis of epistemological and cognitive aspects of activity in new technology mediated learning environments, the changes brought by technology in the interactions between environment, students and teachers, the interrelations between mathematical activities and technology, skills and competencies that must be developed in teacher education. Research shows that the use of some technologies may deeply change the solving processes and contribute to impact the learning processes. The questions are which technologies to choose for which purposes, and how to integrate them, so as to maximize all students' agency. In particular the role of the teacher in classrooms and the content of teacher education programs are critical for taking full advantage of technology in teaching practice.

Mobile as Mainstream - Towards Future Challenges in Mobile Learning - Marco Kalz 2014-10-25

This book constitutes the proceedings of the 13th World Conference on Mobile and Contextual Learning, mLearn 2014, held in Istanbul, Turkey, in November 2014. The 20 revised full papers and 17 short papers presented were carefully reviewed and selected from 65 submissions. The papers are organized in topical sections on technologies and interaction; tablets and ebook readers; learning and teaching inside and outside the classroom; learning design and design implications; evaluation and review studies; development and national perspectives; inquiry-based learning and science applications; work-based learning; theory; language learning; learner perspectives.

Proceedings of the 13th International Congress on Mathematical Education - Gabriele Kaiser 2017-10-31

This book is open access under a CC BY 4.0 license. The book presents the Proceedings of the 13th International Congress on Mathematical Education (ICME-13) and is based on the presentations given at the 13th International Congress on Mathematical Education (ICME-13). ICME-13 took place from 24th- 31st July 2016 at the University of Hamburg in Hamburg (Germany). The congress was hosted by the Society of Didactics of Mathematics (Gesellschaft für Didaktik der Mathematik - GDM) and took place under the auspices of the International Commission on Mathematical Instruction (ICMI). ICME-13 brought together about 3.500 mathematics educators from 105 countries, additionally 250 teachers from German speaking countries met for specific activities. Directly before the congress activities were offered for 450 Early Career Researchers. The proceedings give a comprehensive overview on the current state-of-the-art of the discussions on mathematics education and display the breadth and deepness of current research on mathematical teaching-and-learning processes. The book introduces the major activities of ICME-13, namely articles from the four plenary lecturers and two plenary panels, articles from the five ICMI awardees, reports from six national presentations, three reports from the thematic afternoon devoted to specific features of ICME-13. Furthermore, the proceedings contain descriptions of the 54 Topic Study Groups, which formed the heart of the congress and reports from 29 Discussion Groups and 31 Workshops. The additional important activities of ICME-13, namely papers from the invited lecturers, will be presented in the second volume of the proceedings.