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How People Learn Routledge

Despite a rapidly growing enthusiasm around applications of information and communications technologies (ICTs) to smallholder agriculture in developing countries, there are still many questions on the effectiveness of ICT-based approaches. This study assesses the effects of videomediated agricultural extension service provision on farmers' knowledge and adoption of improved agricultural technologies and practices in Ethiopia. The study focuses on a program piloted by the Government of Ethiopia and Digital Green and poses three questions. First, to what extent does video-mediated extension lead to increased uptake of improved agricultural technologies and practices by smallholder farmers? Second, is video-mediated extension targeted at both spouses of the household more effective than when only targeted at the (typically male) household head? Third, how cost-effective is a video-mediated approach to extension provision? The study explores these questions with a randomized controlled trial designed to evaluate the video-mediated approach as applied to three priority crops (teff, wheat, maize) and three technologies (row planting, precise seeding rates, and urea dressing). The trial was implemented in 347 kebeles (village clusters) during the 2017 meher (rainy) season in Ethiopia's four most agriculturally important regional states. Analysis of data from our surveys of 2,422 households and 896 extension agents indicates that the video-mediated approach is more effective than the conventional

approach in achieving several key outcomes. Specifically, we find that videomediated extension reaches a wider audience than the conventional approach and leads to higher levels of agricultural knowledge and uptake of technologies in those kebeles randomly assigned to the program. While our results do point to greater participation and greater knowledge of female spouses in kebeles where both male and female spouses were targeted by the program, we do not find clear evidence that the more inclusive approach translated into higher uptake of the subject technologies and practices. Finally, we find that the video-mediated approach becomes less costly as the scale of operation increases.

A Teacher's Guide to More Effective Use of Technology Elsevier

This work skeptically explores the notion that the internet will soon obviate any need for traditional print-based academic libraries. It makes a case for the library's staying power in the face of technological advancements (television, microfilm, and CD-ROM's were all once predicted as the contemporary library's heir-apparent), and devotes individual chapters to the pitfalls and prevarications of popular search engines, e-books, and the mass digitization of traditional print material.

Innovation Studies National Academies Press

How does technology impact research practices in the humanities? How does digitisation shape scholarly identity? How do we negotiate trust in the digital realm? What is scholarship, what forms can it take, and how does it acquire authority? This diverse set of essays demonstrate the importance of asking such questions, bringing together established and emerging scholars from a variety of disciplines, at a time when data is increasingly being incorporated as an input and output in humanities sources and publications. Major themes addressed include the changing nature of scholarly publishing in a digital age, the different kinds of 'gate-keepers' for scholarship, and the difficulties of effectively assessing the impact of digital resources. The essays bring theoretical and practical perspectives

into conversation, offering readers not only comprehensive examinations of past and present discourse on digital scholarship, but tightly-focused case studies. This timely volume illuminates the different forces underlying the shifting practices in humanities research today, with especial focus on how humanists take ownership of, and are empowered by, technology in unexpected ways. Digital Technology and the Practices of Humanities Research is essential reading for scholars, students, and general readers interested in the changing culture of research practices in the humanities, and in the future of the digital humanities on the whole.

Brain, Mind, Experience, and School: Expanded Edition Routledge

Qualitative Research Methods in Education and Educational Technology was written for students and scholars interested in exploring the many qualitative methods developed over the last 50 years in the social sciences. The book does not stop, however, at the boundaries of the social sciences. Social scientists now consume and use research methods from many fields. The rich resources of research methods and theories from both the humanities and philosophy are also covered in this book. It explains why postpositivist quantitative research should not be "the only game in town" and provides solid theoretical foundations, beginning with the positions of Plato and Aristotle, for broadening our horizons about what warrants our attention. Using Aristotle's concept of phronesis the author shows why methods such as narrative research and storytelling, hermeneutic inquiry, literary theory, philosophical inquiry, and much more have important applications in education and educational technology. On those foundations, the author also builds a framework for doing many types of research - from participatory

action research to content analysis, to postmodern case studies, to empowerment research and philosophical inquiry. He accomplishes this through a combination of original text, summaries of exemplary research in education and educational technology, and suggested readings that are annotated and introduced at the end of each chapter. Many of these readings are available online and they extend the discussion of research methods or serve as exemplars of a particular type of educational technology research. There are open ended and conceptual questions for each reading, and developing your own answers to them is one way you can extend your depth of understanding about qualitative research methods in education and educational technology.

Paper: Paging Through History Routledge

In recent years, there has been a growing interest in the potential role that digital technologies can play in promoting well-being.

Smartphones, wearable devices, virtual/augmented reality, social media, and the internet provide a wealth of useful tools and resources to support psychological interventions that facilitate positive emotions, resilience, personal growth, creativity, and social connectedness. Understanding the full extent of this potential, however, requires an interdisciplinary approach that integrates the scientific principles of well-being into the design of e-experiences that foster positive change. This book provides an overview of recent advances and future challenges in Positive Technology, an emergent field within human-computer interaction that seeks to understand how interactive technologies can be used in evidence-based well-being interventions. Its focus of analysis is two-fold: at the theoretical level, Positive Technology aims to develop conceptual frameworks and models for understanding how computers can be effectively used to help individuals achieve greater well-being. At the methodological and applied level, Positive Technology is concerned with the design, development, and validation of digital experiences that promote positive change through pleasure, flow, meaning, competence, and positive relationships.

Building Better Jobs in an Age of Intelligent Machines Routledge

Teachers in higher education have had to become more professional in their approach to teaching, matching their professionalism in research. The first edition of this book prepares teachers to do and undergo quality audits and appraisals, and to achieve their personal

aims of improving their teaching and their students' learning. The strength of this book is that it provides a sound theoretical basis for designing and using learning technologies in university teaching. This new edition builds upon the success of the first and contains major updates to the information on learning technologies and includes the implications of using technology for the university context - both campus and electronic - which suggests a new approach to managing learning at institutional level.

W. W. Norton & Company

Examine the history of the microcomputer and its impact on education! Under the editorship of D. LaMont Johnson, PhD, a nationally recognized leader in the field of educational computing, Computers in the Schools has been a powerful tool in educational settings. Now, after 20 years, Professor Johnson muses on how far information technology has come. Technology in Education: A Twenty-Year Perspective brings you a retrospective look at the trends and issues relating to the integration of computers into the school curriculum covering 25 years. He joins several other colleagues to follow the historical journey of the “dream machine” to the technological wonder it has become. Technology in Education: A Twenty-Year Perspective will leave you better informed on such topics as: the obstacles slowing the integration of information technology in education—why are computers still collecting dust in many classrooms? the predictions that were made by early computer enthusiasts, and how close or off the mark those predictions came how information technology has impacted education and society so far historical advances in education that should be celebrated, such as the advent of the World Wide Web the student’s perspective of computers in education and much more! Computers in the Schools is the one of the oldest academic journals dealing directly with the integration of information technology into the educational setting. Technology in Education: A Twenty-Year Perspective provides an important overview by some of the leading experts in the field. From the earliest predictions and opinions to the latest trends and findings, this book, celebrating the journal’s twentieth anniversary, is a vital research tool for students and professors of information technology in education.

IAS Mains Paper 3 Technology Economic Development Bio Diversity Environment, Security & Disaster Management 2021

Arihant Publications India limited

Technology in EducationA Twenty-Year RetrospectiveRoutledge
Delivering Information to Students Harvard University Press

This collection of factual reports, short stories, poems and drawings expresses in a deeply personal voice the devastating effects of the bombings of Hiroshima and Nagasaki.

China, Post-Mao Search for Civilian Industrial Technology
McFarland

This book examines the modules/elements required before implementing knowledge management solutions in typical manufacturing and service industry. The objective is to develop a framework, design and model suitable for all requirements and a strategy to properly implement. Related case studies from organizations are included, with the results provided to use as a solution to problems experienced when implementing knowledge management in the industry. Implementing a knowledge management system can be complex and dynamic, no matter how well planned and developed. Inevitably a degree of organizational inertia is focused on the current state rather than the new. Within an enterprise, personal and group involvement and interests process status and technology landscape can deflect the commitment needed to successfully implement such a system. Cumulative evidence from past research in knowledge management suggests that effective implementation of KM solution in any organization requires a robust designs and models for various critical elements of process, people and technology. Using the techniques provided in this book, readers should be able to design knowledge management strategies, to align objectives of the KM initiatives with their business goals.

Design and Development of Knowledge Management for
Manufacturing Academic Press

For more than two decades, the concept of student engagement has grown from simple attention in class to a construct comprised of cognitive, emotional, and behavioral components that embody and further develop motivation for learning. Similarly, the goals of student engagement have evolved from dropout prevention to improved outcomes for lifelong learning. This robust expansion has led to numerous lines of research across disciplines and are brought together clearly and comprehensively in the Handbook of Research on Student Engagement. The Handbook guides readers through the field’s rich history, sorts out its component constructs, and identifies knowledge gaps to be filled by future research. Grounding data in real-world learning situations, contributors analyze indicators and facilitators of student engagement, link engagement to motivation, and gauge the impact of family, peers, and teachers on engagement in elementary and secondary grades. Findings on the effectiveness of classroom interventions are discussed in detail. And because assessing engagement is still a relatively new endeavor, chapters on measurement methods and issues round out this important resource. Topical areas addressed in the Handbook include: Engagement across developmental stages. Self-efficacy in the engaged learner. Parental and social influences on engagement and achievement

motivation. The engaging nature of teaching for competency development. The relationship between engagement and high-risk behavior in adolescents. Comparing methods for measuring student engagement. An essential guide to the expanding knowledge base, the Handbook of Research on Student Engagement serves as a valuable resource for researchers, scientist-practitioners, and graduate students in such varied fields as clinical child and school psychology, educational psychology, public health, teaching and teacher education, social work, and educational policy.

Proceedings of Selected Research Paper Presentations at the ...
Convention of the Association for Educational Communications and Technology OUP Oxford

The technological revolution has reached around the world, with important consequences for business, government, and the labor market. Computer-aided design, telecommunications, and other developments are allowing small players to compete with traditional giants in manufacturing and other fields. In this volume, 16 engineering and industrial experts representing eight countries discuss the growth of technological advances and their impact on specific industries and regions of the world. From various perspectives, these distinguished commentators describe the practical aspects of technology's reach into business and trade.

Book Review Digest Elsevier Science Limited

This is an up-to-date treatment of the research and development process and the role of R & D in the corporation. Special attention is given to those problem areas that decrease the effectiveness of a company's R & D, and solutions to such problems are suggested. The author describes the nature of R & D in industry, the activities that comprise the R & D process and the way in which the R & D organization fits within the company as a whole. Of special interest is the emphasis on the interface between R & D, the other units of the company, and the external environment. The book is intended for R & D and general managers, particularly in industry, and will also be suitable as a teaching aid in business schools. Each facet of the subject is treated in a self-contained way and extensive references are provided in order that each topic may be studied independently.

The Work of the Future Springer Science & Business Media

Innovation is increasingly recognized as a vitally important social and economic phenomenon worthy of serious research study. Firms are concerned about their innovation ability, particularly relative to their competitors. Politicians care about innovation, too, because of its presumed social and economic impact. However, to recognize that innovation is desirable is not sufficient. What is required is systematic and reliable knowledge about how best to influence innovation and to exploit its effects

to the full. Gaining such knowledge is the aim of the field of innovation studies, which is now at least half a century old. Hence, it is an opportune time to ask what has been achieved and what we still need to know more about. This is what this book sets out to explore. Written by a number of central contributors to the field, it critically examines the current state of the art and identifies issues that merit greater attention. The focus is mainly on how society can derive the greatest benefit from innovation and what needs to be done to achieve this. However, to learn more about how society can benefit more from innovation, one also needs to understand innovation processes in firms and how these interact with broader social, institutional and political factors. Such issues are therefore also central to the discussion here.

IRRI Research Paper Series Technology in EducationA Twenty-Year Retrospective

Handbook of Research on Blockchain Technology presents the latest information on the adaptation and implementation of Blockchain technologies in real world business, scientific, healthcare and biomedical applications. The book's editors present the rapid advancements in existing business models by applying Blockchain techniques. Novel architectural solutions in the deployment of Blockchain comprise the core aspects of this book. Several use cases with IoT, biomedical engineering, and smart cities are also incorporated. As Blockchain is a relatively new technology that exploits decentralized networks and is used in many sectors for reliable, cost-effective and rapid business transactions, this book is a welcomed addition on existing knowledge. Financial services, retail, insurance, logistics, supply chain, public sectors and biomedical industries are now investing in Blockchain research and technologies for their business growth. Blockchain prevents double spending in financial transactions without the need of a trusted authority or central server. It is a decentralized ledger platform that facilitates verifiable transactions between parties in a secure and smart way. Presents the evolution of blockchain, from fundamental theories, to present forms Explains the concepts of blockchain related to cloud/edge computing, smart healthcare, smart cities and Internet of Things (IoT) Provides complete coverage of the various tools, platforms and techniques used in blockchain Explores smart contract tools and consensus algorithms Covers a variety of applications with real world case studies in areas such as biomedical engineering, supply chain management, and tracking of goods and delivery

Legal Informatics National Academies Press

First released in the Spring of 1999, How People Learn has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do

experts learn and how is this different from non-experts? What can teachers and schools do-with curricula, classroom settings, and teaching methods--to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. How People Learn examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education.

New Science of Learning Open Book Publishers

In a revealing study of how digital dossiers are created (usually without our knowledge), the author argues that we must rethink our understanding of what privacy is and what it means in the digital age, and then reform the laws that define and regulate it. Reprint.

International Perspectives NYU Press

Many nations are currently adopting a variety of directed strategies to launch and support research parks, often with significant financial commitments and policy support. By better understanding how research parks of other nations operate, we can seek to improve the scale and contributions of parks in the U.S. To that end, the National Academies convened an international conference on global best practices in research parks. This volume, a report of the conference, includes discussion of the diverse roles that research parks in both universities and laboratories play in national innovation systems. The presentations identify common challenges and demonstrate substantial differences in research park programs around the world.

Advanced Materials Research IGI Global

Mobile learning, or m-learning, can take place in any environment using technologies that fit in the palm of the hand or can be easily carried from one place to another. Models for Interdisciplinary Mobile Learning: Delivering Information to Students investigates m-

learning applications in developed and developing countries as individuals and groups embrace mobile systems. This innovative work expands on existing perspectives, applications, theories, and philosophies while also exploring how blended learning practices have developed into mobile learning opportunities.

Technology and Privacy in the Information Age Information Age Pub Incorporated

Why the United States lags behind other industrialized countries in sharing the benefits of innovation with workers and how we can remedy the problem. The United States has too many low-quality, low-wage jobs. Every country has its share, but those in the United States are especially poorly paid and often without benefits. Meanwhile, overall productivity increases steadily and new technology has transformed large parts of the economy, enhancing the skills and paychecks of higher paid knowledge workers. What ' s wrong with this picture? Why have so many workers benefited so little from decades of growth? The Work of the Future shows that technology is neither the problem nor the solution. We can build better jobs if we create institutions that leverage technological innovation and also support workers through long cycles of technological transformation. Building on findings from the multiyear MIT Task Force on the Work of the Future, the book argues that we must foster institutional innovations that complement technological change. Skills programs that emphasize work-based and hybrid learning (in person and online), for example, empower workers to become and remain productive in a continuously evolving workplace. Industries fueled by new technology that augments workers can supply good jobs, and federal investment in R&D can help make these industries worker-friendly. We must act to ensure that the labor market of the future offers benefits, opportunity, and a measure of economic security to all.