PAPER

Designing a Smart Classroom Based on a Multi-Screen Interactive Learning System for Improving Student Satisfaction

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ABSTRACT

There are several issues with traditional classroom teaching, including the sporadic presentation of lecture materials, the reliance on a single, traditional teaching method, and a lack of student engagement and initiative. These problems seriously impact the quality of engineering education. Combining the advantages of mobile learning and multi-screen displays, this paper proposes a smart classroom architecture based on a multi-screen interactive learning system (MSILS). The proposed smart classroom system supports students in conducting learning activities in a multi-screen learning environment. Its goal is to enhance interaction and increase student satisfaction in engineering classroom learning. For the evaluation, an experiment was conducted in a science and engineering-related course at a university in China. The research results show that students who received instruction with the proposed system reported higher satisfaction in four areas: information technology, teaching methods, perceived value, and learning satisfaction. Approximately 90% of the 629 undergraduate students who participated in the experiment expressed their desire to continue their studies in this smart classroom. This indicates that students are more interested, expectant, helpful, and engaged in the target courses they are taking after using the smart classroom system.

KEYWORDS

smart classroom, multi-screen learning environment, student satisfaction, M-learning

1 INTRODUCTION

In recent decades, the rapid development of information and communication technologies (ICTs) has profoundly transformed the social fabric with unprecedented speed and scope. These advancements have had a significant impact on various aspects of life, including work, communication, lifestyle, and the environment [1]. In education, ICTs, such as the internet and interactive multimedia, are being integrated

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and iterative flow of marketing knowledge creation and consumption this text posits a cohesive argument for a theory practice bipartite fusion not dichotomy adding valuable insights into the textual contextual and pedagogical representations of marketing knowledge The history and future of marketing knowledge is examined with the aid of instructive illustrations and insightful first hand experience Drawing on extensive qualitative research from a broad range of influential producers and vital consumers Dr Smith presents a relevant exciting marketing knowledge framework which will be a vital resource for academics students and practitioners **Marketing and Smart Technologies** José Luís Reis,Eduardo Parra López,Luiz Moutinho,José Paulo Marques dos Santos,2022-03-29 This book includes selected papers presented at the International Conference on Marketing and Technologies ICMarkTech 2021 held at University of La Laguna Tenerife Spain during December 2 4 2021 It covers up to date cutting edge research on artificial intelligence applied in marketing virtual and augmented reality in marketing business intelligence databases and marketing data mining and big data marketing data science web marketing e commerce and v commerce social media and networking geomarketing and IoT marketing automation and inbound marketing machine learning applied to marketing customer data management and CRM and neuromarketing technologies Customer-Oriented Marketing Strategy Tevfik Dalgic,2013-03-15 What is customer orientation And how does it fit in your idea of a good marketing strategy This book can help you understand more about the relationships applications and steps to take to drive continuous relationships with customers to aid in the process of defining and implementing niche strategies international marketing efforts and electronic commerce Inside the authors start with classic marketing concepts and then review important developments and research of the latest findings both from the theoretical and applied points of view to present specific examples methodologies policy measures and strategies that can be implemented to increase and perfect customer satisfaction Both manufacturing and service businesses are addressed and the results will give you a combination of the major studies in this specific field of marketing and strategy to offer a comprehensive strategic tool for decision makers in organizations Phygital Approaches to Social Marketing Djakeli, Kakhaber,2024-10-04 In social marketing the concept of phygital approaches blending physical and digital experiences has emerged as a transformative strategy As consumers navigate the digital world implementing phygital techniques offers a unique opportunity to create immersive and engaging brand interactions Phygital marketing combines the sensory experiences of physical environments with the immediacy and data driven precision of digital platforms to enhance customer engagement and loyalty while providing valuable analytics into consumer behavior Further research into social marketing is necessary to understand how it may help businesses and organizations balance workplace wellbeing customer communication and the physical and emotional happiness of employees and consumers Phygital Approaches to Social Marketing develops guidelines for proper social marketing research study teaching and practical social marketing campaigns It explores modern marketing through social cultural and economic theories revealing how digital technology can be used to

influence customer emotions and spending while creating sustainable business environments This book covers topics such as artificial intelligence customer retention and online technology and is a useful resource for business owners educational professionals marketing agents sociologists policymakers public health professionals academicians scientists and researchers

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result of the emergence of computer technologies especially also in the field of computer sciences and artificial intelligence As a consequence machine learning struck a chord in the 1980s and became an important field of the learning sciences in general As the learning sciences became more specialized and complex the various fields of interest were widely spread and separated from each other as a consequence even presently there is no comprehensive overview of the sciences of learning or the central theoretical concepts and vocabulary on which researchers rely The Encyclopedia of the Sciences of Learning provides an up to date broad and authoritative coverage of the specific terms mostly used in the sciences of learning and its related fields including relevant areas of instruction pedagogy cognitive sciences and especially machine learning and knowledge engineering This modern compendium will be an indispensable source of information for scientists educators engineers and technical staff active in all fields of learning More specifically the Encyclopedia provides fast access to the most relevant theoretical terms provides up to date broad and authoritative coverage of the most important theories within the various fields of the learning sciences and adjacent sciences and communication technologies supplies clear and precise explanations of the theoretical terms cross references to related entries and up to date references to important research and publications The Encyclopedia also contains biographical entries of individuals who have substantially contributed to the sciences of learning the entries are written by a distinguished panel of researchers in the various fields of the learning sciences **Encyclopedia of Information Science and Technology** Mehdi Khosrow-Pour,Mehdi Khosrowpour,2009 This set of books represents a detailed compendium of authoritative research based entries that define the contemporary state of knowledge on technology Provided by publisher **Educational Stages and Interactive Learning: From Kindergarten to Workplace Training** Jia, Jiyou,2012-02-29 The adoption of ICT for personal and business use has encouraged the growth of interactive learning as well as its application in a number of education and training scenarios Designing effective syllabi for interactive learning projects helps to ensure that desired leaning outcomes are achieved without incurring a significant loss of time or money Educational Stages and Interactive Learning From Kindergarten to Workplace Training provides a record of current research and practical applications in interactive learning This book reviews all aspects of interactive learning investigates the history status and future trends of interactive learning introduces emerging technologies for interactive learning and analyzes interactive learning cases in various educational stages and learning situations Readers interested in the technologies and pedagogical applications of interactive learning will find this book a comprehensive reference for the understanding of notions theories techniques and methods related to the research and development of interactive learning *Services Marketing: Text and Cases* Harsh V. Verma, The second edition of Services Marketing Text and Cases takes a leap forward to develop a strategic perspective to the service marketing framework Extensively revised and restructured this edition includes five additional chapters aimed at widening the reader s horizons for a richer learning experience The book begins with an initiation into the field of services and then develops an appreciation of the service

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