

Review Article

A Literature Review of Digital Literacy over Two Decades

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The COVID-19 pandemic has forced online learning to be a “new normal” during the past three years, which highly emphasizes students’ improved digital literacy. This study aims to present a literature review of students’ digital literacy. Grounded on about twenty journal articles and other related publications from the Web of Science Core Collection, this paper focused on the definition of digital literacy; the factors affecting students’ digital literacy (age, gender, family socioeconomic status, and parent’s education level); the relationship between students’ digital literacy and their self-control, technostress, and engagement; and the three approaches to gauge the level of students’ digital literacy. The study also provided some advice for educators and policymakers. Finally, the limitations and implications were presented.

1. Introduction

As a result of the COVID-19 pandemic, many sectors have been terribly affected, including the education sector. Plenty of students had to leave their school and stay at home. The educational sectors turned to online education immediately to fight against the pandemic crisis [1]. Online learning is a mixture possessing both benefits and challenges.

On the contrary, it enjoys many benefits. First and foremost, it is flexible and time-saving [2]. It simplifies learning methods compared to traditional approaches and allows people to stay at home and get access to knowledge. Moreover, it is effective since students can repeatedly listen to the recorded sessions to help themselves have a good grasp of the knowledge [3]. In addition, online learning also enjoys several characteristics like easy accessibility and flexibility, which enables the students in rural or remote areas to study and allows students to plan their time to complete their courses available online [4].

On the contrary, it also has some challenges. Some students are less satisfied with their courses since they could not get enough feedback and valuable comments [5]. In addition, students could not be fully engaged in the class as a result of the lack of human interaction [6, 7]. Compared with

face-to-face learning, students regard online learning as less interesting, and they are less motivated in the learning process [8]. Moreover, some teachers are not that proficient in manipulating the digital application, leading to that both teachers and students cannot have a good experience [9].

A study illustrated that from the online learners’ perspective, there were five aspects to be improved: teamwork, cognitive, operating, organizing, and emotional [10]. From these five aspects, a potential impact on developing students’ learning outcomes may be digital literacy. The students have not fully prepared for the abrupt switch to online learning. With different levels of digital literacy, they may have various perceptions of online learning.

Recently, many studies have been done to investigate students’ digital literacy through quantitative methods [11–15], but a few studies have made a comprehensive review of the literature related to students’ digital literacy. In this way, readers can have a comprehensive understanding of digital literacy over two decades. In addition, some advice is provided for educators and policymakers. In this study, the author intends to give a literature review of digital literacy over two decades and make references for educators and policymakers. This paper is presented as follows: Section 2 outlines the materials and methods used in this study.

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Digital Literacy for Teachers Łukasz Tomczyk, Laura Fedeli, 2022-05-26 This book shows the results of research in different countries on how to measure digital competence among future generations of teachers and facing the challenges brought by the convergence of analogue and digital media This book provides answers to the research questions How should the key competencies related to media pedagogy be effectively measured and compared What is the level of digital literacy of pre service teachers in selected countries The individual chapters are based on a systematic review of research results from the last two decades to show trends related to changes in measurement and levels of digital competence This book is valuable for researchers training future generations of teachers in the use of new media as well as to those trying to measure the development of the information society as well as those conducting research in the field of comparative pedagogy including the transfer of the most effective solutions in the field of media pedagogy

Digital Participation, Digital Literacy, and School Subjects Cassie Hague, Ben Williamson, Futurelab, 2009

Digital Literacy Skills for FE Teachers Jonathan White, 2015-09-21 Effective digital skills are essential for all teachers and tutors in the Further Education FE and Skills Sector This text brings together important theory and research around digital literacy and outlines what this means for teaching in the sector It is a practical guide that introduces different types of web based technologies and explores how they can be used in teaching provides guidance on the digital skills teachers and tutors need and how they can be developed examines issues of digital safety security and responsibility and how online learning communities can be accessed applies critical thinking creativity and responsibility to the processes of using digital technologies inside and outside of the classroom Providing a comprehensive framework underpinned by the standards through which to develop digital literacy skills this is an essential resource for those teaching or training to teach in the FE and Skills sector

Information Literacy: Lifelong Learning and Digital Citizenship in the 21st Century Serap Kurbanoglu, Sonja Spiranec, Esther Grassian, Diane Mizrahi, Ralph Catts, 2014-12-13 This book constitutes the refereed proceedings of the European Conference on Information Literacy ECIL 2014 held in Dubrovnik Croatia in October 2014 The 93 revised full papers presented together with two keynotes and one invited paper were carefully reviewed and selected from 283 submissions The papers are organized in topical sections on theoretical framework related concepts research rights and ethics children higher education education and instruction assessment and evaluation libraries different aspects

OECD Reviews of Digital Transformation Going Digital in Brazil OECD, 2020-10-26 Going Digital in Brazil analyses recent developments in Brazil's digital economy reviews policies related to digitalisation and makes recommendations to increase policy coherence in this area

Emergence of Social Media: Shaping the Digital Discourse of the Next Generation Swati Agarwal, Dr. Sharmila Kayal, Dr. Sayak Pal, Dr. Syed Tabrez Hassan, Ms. Ann Mercy J, Dr. Brindhadevi C, Dr. Samuel Okechukwu Omeje, Buike Oparaugo, Mary Onyedikachi Chukwuka, MD. Julker Naim, Dr. Jannatul Ferdaous, Ibnat Sahira Alam, Dr. Amina Abdelhadi, Pousali Bhar, Mouma

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In the fast paced and interconnected world communication has undergone a transformative evolution particularly due to advent of social media Social media platforms have become the heart of global interaction and is reshaping the way we connect share and engage with one another At its core social media is a dynamic and expansive virtual landscape that transcends geographical boundaries enabling individuals communities and businesses to communicate instantaneously In the realm of communication social media serves as a multifaceted tool that not only facilitates the exchange of ideas information and emotions but also cultivates a sense of virtual community The platforms act as digital arenas where diverse voices converge breaking down traditional barriers and fostering a rich tapestry of conversations From personal anecdotes to global discussions social media platforms provide a stage for the collective expression of thoughts opinions and experiences As we delve into the intricate dynamics of social media and communication it becomes evident that these platforms are not merely technological innovations but powerful conduits that mirror the evolving nature of human interaction In this digital age social media stands as a testament to the boundless potential of communication providing a dynamic space where ideas flourish relationships blossom and the world becomes a more interconnected global village The book delves into the multifaceted impact of social media digital transformation and modern technologies on society Key research themes include the influence of social media on consumer behavior marketing strategies and digital banking The studies explore AI s role in social media its benefits and potential for misuse The mental health challenges particularly among adolescents and celebrities are also addressed alongside the importance of digital literacy Other significant topics include the role of social media in political engagement education human rights and the evolution of digital identities The chapters highlight both the opportunities and challenges posed by social media

Handbook of Open, Distance and Digital Education Olaf Zawacki-Richter, Insung Jung, 2023-01-01 This open access handbook offers a one stop shop for both new and established researchers educators policy makers and administrators in the field of open distance and digital education ODDE to gain a comprehensive overview of the history theory and practice at all levels of ODDE and at the same time stimulates in depth discussions on various themes and issues of ODDE for today and future Researchers scholars and students in the field of ODDE can use this handbook as a major reference to conduct their own research and learning agendas To cover the field comprehensively the handbook is structured following the 3M framework developed by one of the

chief editors Zawacki Richter The 3M framework categorizes the major research areas and issues in ODDE on three levels Accordingly the handbook is divided into six sections in total two section at each of the three levels 1 Macro Level ODDE Systems and Theories 2 Meso Level Institutional Perspectives Management and Organization and 3 Micro Level Learning and Teaching in ODDE This is an open access book The Digital Divide Massimo Ragnedda, Glenn W. Muschert, 2013-06-19 This book provides an in depth comparative analysis of inequality and the stratification of the digital sphere Grounded in classical sociological theories of inequality as well as empirical evidence this book defines the digital divide as the unequal access and utility of internet communications technologies and explores how it has the potential to replicate existing social inequalities as well as create new forms of stratification The Digital Divide examines how various demographic and socio economic factors including income education age and gender as well as infrastructure products and services affect how the internet is used and accessed Comprised of six parts the first section examines theories of the digital divide and then looks in turn at Highly developed nations and regions including the USA the EU and Japan Emerging large powers Brazil China India Russia Eastern European countries Estonia Romania Serbia Arab and Middle Eastern nations Egypt Iran Israel Under studied areas East and Central Asia Latin America and sub Saharan Africa Providing an interwoven analysis of the international inequalities in internet usage and access this important work offers a comprehensive approach to studying the digital divide around the globe It is an important resource for academic and students in sociology social policy communication studies media studies and all those interested in the questions and issues around social inequality **Advancing Science and Innovation in Healthcare Research** Debasmita Bhattacharya, Prabir Kumar Das, Samapika Das Biswas, 2025-08-13 While basic science research explores into unraveling biological processes pathways and mechanisms to identify targets and understand disease progression engineering focuses on developing techniques equipment and procedures to improve patient outcomes Advancing Science and Innovation in Healthcare Research Health Horizons not only contributes to the comprehension of human health and disease attenuation but also sheds light on mechanisms and introduces new techniques to combine these two areas and bridge knowledge gaps Comprising 29 chapters this book introduces readers to the application of modern technologies such as bioinformatics bioengineering and artificial intelligence for advancing human health It explores the systems biology approach utilizing multi omics techniques and metagenomic profiling Researchers in systems biology bioinformatics and biomedical applications will find this an essential reference Deciphers the importance of ground breaking basic science research and innovative techniques used to ameliorate diseases and improve health Enhances understanding of human health and reduces the impact of diseases by revealing the underlying mechanisms and introducing innovative techniques addressing knowledge gaps Deals with modern technologies that can be applied for diagnosis and therapeutics of different diseases of different diseases *Exploring Digital Metrics in Academic Libraries* Thanuskodi, S., 2025-01-09 As academic libraries evolve in the digital age the need for effective data collection and analysis has become

increasingly important in assessing their impact and enhancing their services Exploring digital metrics in academic libraries involves leveraging technology to track and measure a variety of activities from resource usage and user engagement to the effectiveness of digital collections and services These metrics provide valuable insights into how students faculty and researchers interact with library resources enabling libraries to make data driven decisions that improve access support learning and optimize operations By embracing digital metrics academic libraries can not only demonstrate their value to stakeholders but also adapt to the changing needs of the academic community in an increasingly digital world Exploring Digital Metrics in Academic Libraries discusses the changes needed to transform libraries and information science education and training It explores avenues to adopt implement and utilize the emerging digital library and all other available new technologies and their applications in library systems models policies and mechanisms This book covers topics such as cloud computing higher education and smart technology and is a useful resource for computer engineers librarians data scientists academicians and researchers

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