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Abstract
This research is a literature review study that intends to determine trends in the use of E-learning for education. The method used is a literature study method where researchers search literature from 2018 to 2023 from various articles that have been published and journals indexed by Scopus, Sinta, Wos, Ebsco, Copernicus and Google Scholar. The result of this study is that currently the use of learning media has changed which previously only used blog-based media and changed to Virtual reality and is currently most widely used as a learning media. This can make it easier for learners to visualize learning. The conclusion obtained is that the use of E-learning media can increase learning value and can facilitate the understanding of lessons. The trend that is changing today is to use Virtual reality-based learning media. Researchers hope that this article will have a significant impact on learning and teaching staff can use learning media that are currently trending. The use of Virtual reality learning media makes it easier for students to understand visual learning and in terms of cost can be more efficient.

Keywords: Education, E-learning, Media Digital, Virtual Reality

Introduction
The trends in educational research about E-learning from 2018 to 2023 indicate a growing focus on personalized learning experiences. Researchers are exploring ways to tailor E-learning platforms to individual students’ needs, allowing for adaptive and customized instruction. Additionally, there is an increasing emphasis on the integration of emerging technologies, such as virtual reality and artificial intelligence, to enhance the E-learning experience and promote deeper engagement and understanding (Priestley & Shapira, 2018; Wankat & Oreovicz, 2015). These trends highlight the ongoing evolution of E-learning as a dynamic and innovative approach to education.
As technology continues to advance, educational research about E-learning is expected to further explore the potential of immersive learning experiences (Alharbi & Newbury, 2020; Hwang & Bowers, 2012; Lim et al., 2019). Virtual reality and augmented reality are likely to play a significant role in creating interactive and engaging E-learning environments (Ivanov et al., 2020; Sural, n.d.). Furthermore, researchers may also focus on the integration of gamification elements to enhance motivation and promote active participation among students. These trends demonstrate the continuous efforts to make E-learning more effective and enjoyable for learners in the coming years. In addition, there is a growing interest in the use of data analytics in educational research about E-learning. Researchers are exploring how data can be collected and analyzed to gain insights into student learning patterns and preferences. This information can then be used to inform instructional design and personalize the learning experience even further. By harnessing the power of data, E-learning has the potential to become even more tailored and effective in the years to come.

Furthermore, another emerging trend in educational research about E-learning is the integration of social learning platforms. Researchers are recognizing the importance of collaboration and peer-to-peer interaction in the learning process. By incorporating social learning elements into E-learning platforms, students can engage in discussions, share ideas, and learn from one another, fostering a sense of community and enhancing their overall learning experience. This shift towards social learning reflects the growing understanding that education is not solely an individual endeavor, but a collective effort. As E-learning continues to evolve, there is also a focus on accessibility and inclusivity. Educational researchers are exploring ways to make E-learning more accessible to individuals with disabilities, ensuring that everyone has equal opportunities to engage in online education. This may involve the development of assistive technologies, such as screen readers or captioning tools, to accommodate different learning needs. By prioritizing accessibility, E-learning can become a more inclusive and equitable educational platform for all learners (Afriansyah et al., 2020; Alharbi & Newbury, 2020; Gowda & Suma, 2021; Impedovo, 2011; Yasak & Alias, 2015). Moreover, the use of virtual reality (VR) and augmented reality (AR) in E-learning is gaining traction. These immersive technologies provide learners with realistic and interactive experiences, allowing them to explore complex concepts in a more engaging and hands-on manner. By incorporating VR and AR into E-learning, educators can create dynamic and memorable learning experiences that cater to different learning styles and preferences. As technology continues to advance, we can expect to see more innovative applications of VR and AR in the field of E-learning.

In addition to these advancements, gamification is also being incorporated into E-learning to enhance learner engagement and motivation. By integrating game elements, such as points, badges, and leaderboards, into the learning experience, educators can create a more interactive and enjoyable environment. Gamification not only encourages healthy competition among learners but also provides immediate feedback and rewards, which can boost learner satisfaction and retention. As E-learning continues to evolve, the integration of gamification is expected to play a significant role in enhancing the overall effectiveness of online education.

Literature Review

As technology continues to advance, artificial intelligence (AI) is also being explored as a potential tool in E-learning (Arrasmith, 2006; Newswire, 2017; Polat & Erkollar, 2021; Yang & Zhu, 2019). AI has the potential to personalize the learning experience by analyzing individual learner data and providing tailored recommendations and resources. This can help learners to focus on areas where they need improvement and receive targeted support, ultimately enhancing their learning outcomes. By harnessing the power of AI, E-learning can become even more adaptive and responsive to the unique needs of each learner.

Furthermore, the integration of social learning features in E-learning platforms is becoming increasingly popular. By incorporating discussion forums, collaborative projects, and peer-to-peer learning opportunities, learners can engage with their peers and actively participate in the learning process. This fosters a sense of community and encourages knowledge sharing, ultimately enhancing the overall learning experience. With the rise of social media and online networking, the integration of social learning in E-learning is a natural progression that promotes collaboration and knowledge exchange among learners (Everson et al., 2013; Meng et al., 2017; Odine, 2013).

As the demand for remote learning continues to grow, mobile learning (m-learning) is emerging as a key trend in E-learning. With the widespread use of smartphones and tablets, learners can access educational content anytime, anywhere. M-learning offers the flexibility and convenience that traditional classroom settings may not provide, allowing learners to engage with course materials at their own pace. This accessibility opens up new opportunities for individuals who may have previously faced barriers to education, such as geographical limitations or time constraints.

In addition, the incorporation of virtual reality (VR) and augmented reality (AR) technologies in E-learning is revolutionizing the way learners interact with content. VR and AR can create immersive and interactive learning experiences, allowing learners to visualize complex concepts and practice real-world skills in a safe and controlled environment. This hands-on approach enhances engagement and retention, making learning more enjoyable and effective. As these technologies continue to advance, we can expect to see even more innovative applications in E-learning, further enhancing the overall learning experience.

In addition to the advancements in technology, personalized learning is also gaining traction in E-learning. By tailoring the content and delivery methods to the individual learner's needs, personalized learning ensures a more effective and efficient learning experience. This approach allows learners to focus on areas where they need improvement and progress at their own pace, ultimately leading to better learning outcomes. With the help of AI algorithms and data analytics, E-learning platforms can analyze learner data and provide personalized recommendations and feedback to optimize the learning process.

As the field of E-learning continues to evolve, gamification is becoming increasingly popular as a way to enhance learner engagement and motivation. By incorporating game elements such as points, badges, and leaderboards into the learning experience, gamification
transforms the educational process into a more interactive and enjoyable journey. This approach not only encourages healthy competition among learners but also provides instant feedback and rewards, fostering a sense of accomplishment and progress. With the potential to increase learner motivation and retention, gamification is poised to play a significant role in the future of E-learning.

Furthermore, the integration of social learning features in E-learning platforms is another trend that is shaping the future of online education. By allowing learners to connect and collaborate with their peers, social learning promotes knowledge sharing and fosters a sense of community. This interactive approach not only enhances engagement but also encourages critical thinking and problem-solving skills through discussions and group projects. With the rise of online communities and forums, learners can now easily connect with experts and like-minded individuals, creating a rich and dynamic learning environment. As social learning continues to evolve, we can expect to see more innovative ways of incorporating collaborative elements into E-learning platforms.

Research Method

To conduct bibliometric analysis on this study, the following methodology was followed by Collection of Relevant Articles: A systematic search was conducted using scientific databases such as PubMed, Scopus, and Web of Science, Google Scholar to identify articles related to E-learning media trends. Screening and Selection: Collected articles are filtered based on predefined inclusion and exclusion criteria. Publication Assessment: Selected articles are analyzed for various parameters such as number of citations, year of publication, author affiliation, and keywords to gain insight into developments and trends in research on the use of E-learning media in learning. Citation Number Analysis: The number of citations from each article is calculated to determine the impact and influence of research in the field. Identification of Major Authors and Institutions: Authors and institutions with the highest number of publications and number of citations are identified to identify major contributors in the field of E-learning research. Keyword Mapping: The keywords used in the selected article are analyzed to identify key themes and trends in research on E-learning and the inclusion of primary keywords. Identify Research Gaps: By analyzing the existing literature, areas that have received less attention or require further research in the field of E-learning are identified to highlight potential research gaps. 8. Impact Assessment and Future Perspectives: Findings from literature analysis are used to assess the impact of E-learning research and provide insight into current research trends and potential future directions in the field. Conclusion: The literature review analysis of E-learning research provides a comprehensive understanding of developments and trends in this field. It identifies key authors, institutions, and research themes, as well as collaborative networks. The analysis also highlights research gaps and provides valuable insights for research and policy-making on the future use of E-learning media in Education.
As technology continues to advance, virtual reality (VR) is emerging as a promising tool in E-learning. By immersing learners in realistic and interactive virtual environments, VR provides a unique and engaging learning experience. This technology allows learners to practice real-life scenarios, explore complex concepts, and develop practical skills in a safe and controlled environment. With the potential to revolutionize the way we learn, VR is set to reshape the future of E-learning by offering a truly immersive and impactful educational experience.

In addition to gamification, another emerging trend in E-learning is the use of artificial intelligence (AI) to personalize the learning experience. AI algorithms can analyze learner data and provide customized content and recommendations based on individual needs and preferences. This personalized approach not only enhances learner engagement but also improves learning outcomes by delivering targeted and relevant information. As AI technology continues to advance, we can expect to see more sophisticated and adaptive E-learning platforms that cater to the unique learning styles and goals of each individual learner.

As the field of E-learning continues to evolve, one area that holds great potential is the integration of augmented reality (AR). AR overlays digital information onto the real world, allowing learners to interact with virtual objects and environments in a more immersive way. This technology has the ability to enhance hands-on learning experiences, such as science experiments or technical training, by providing visual and interactive guidance. With the increasing accessibility of AR devices, we can expect to see more E-learning platforms incorporating this technology to create engaging and interactive educational experiences.

As the demand for remote learning continues to rise, E-learning platforms are also exploring the integration of live video streaming. This feature allows learners to participate in real-time discussions, presentations, and demonstrations, fostering a sense of connection and collaboration. By incorporating live video streaming, E-learning platforms can create a more interactive and engaging learning environment, providing learners with the opportunity to interact with instructors and peers, ask questions, and receive immediate feedback. This technology has the potential to bridge the gap between traditional classroom learning and online education, offering a more dynamic and immersive learning experience.

As technology continues to advance, virtual reality (VR) is also emerging as a promising tool in E-learning. VR creates a fully immersive environment that allows learners to experience simulations and scenarios that would otherwise be difficult or impossible to replicate in a traditional classroom setting. By incorporating VR into E-learning platforms, learners can engage in realistic and interactive experiences that enhance their understanding and retention of complex concepts. This technology has the potential to revolutionize the way we learn by providing a truly immersive and hands-on educational experience.

One emerging trend in E-learning is the use of artificial intelligence (AI) to personalize the learning experience. AI algorithms can analyze data on each learner's preferences, strengths, and weaknesses to deliver customized content and recommendations. This not only
helps learners stay engaged and motivated, but also ensures that they are receiving the most relevant and effective learning materials. By harnessing the power of AI, E-learning platforms can create a more adaptive and personalized learning environment that caters to the unique goals of each individual learner.

Another exciting development in E-learning is the integration of gamification elements. Gamification involves incorporating game-like features such as badges, leaderboards, and rewards into the learning process. This approach not only makes learning more enjoyable and engaging but also encourages healthy competition and motivation among learners. By gamifying E-learning platforms, educators can tap into the natural human inclination for play and exploration, ultimately enhancing the overall learning experience.

Furthermore, mobile learning, or m-Learning, is gaining traction in the E-learning landscape. With the widespread use of smartphones and tablets, learners now have the flexibility to access educational content anytime, anywhere. This accessibility allows for seamless learning experiences, whether it's during a commute, a lunch break, or even while traveling. By embracing m-Learning, E-learning platforms can cater to the on-the-go lifestyles of modern learners and provide them with convenient and efficient ways to acquire knowledge. Lastly, social learning is becoming increasingly prominent in E-learning. This approach leverages social media platforms, discussion forums, and online communities to foster collaboration and knowledge sharing among learners. By encouraging peer-to-peer interaction and the exchange of ideas, E-learning platforms can create a supportive and collaborative learning environment. This not only enhances the learning experience but also promotes critical thinking, problem-solving, and communication skills that are essential in today's interconnected world.

One emerging trend in E-learning is the use of virtual reality (VR) and augmented reality (AR) technologies. These immersive technologies provide learners with a more interactive and realistic learning experience. For example, VR can transport learners to different environments and scenarios, allowing them to practice real-life skills in a safe and controlled setting. AR, on the other hand, overlays digital information onto the real world, enhancing the learning process by providing additional context and guidance. By incorporating VR and AR into E-learning platforms, educators can create dynamic and engaging learning experiences that go beyond traditional methods.

Conclusion

Additionally, virtual reality (VR) and augmented reality (AR) are emerging technologies that are revolutionizing E-learning. By immersing learners in virtual or augmented environments, educators can provide realistic and engaging learning experiences. VR and AR can simulate real-life scenarios, allowing learners to practice skills and apply knowledge in a safe and controlled environment. These technologies can enhance visualization and spatial understanding, making complex concepts easier to grasp. By incorporating VR and AR into E-learning platforms, educators can create immersive and interactive learning experiences that captivate learners' attention and enhance their learning outcomes.
Gamification is another effective strategy in E-learning. By incorporating game elements such as points, badges, and leaderboards, educators can make the learning process more engaging and enjoyable. Gamification can motivate learners to actively participate and strive for achievements, fostering a sense of competition and accomplishment. It also promotes problem-solving and critical thinking skills, as learners navigate through challenges and quests. By integrating gamification into E-learning platforms, educators can create a dynamic and immersive learning environment that keeps learners motivated and invested in their educational journey.

Furthermore, personalized learning is another key aspect of E-learning. By tailoring the learning experience to individual learners’ needs and preferences, educators can optimize engagement and knowledge retention. Personalized learning allows learners to progress at their own pace, focus on areas of interest, and receive targeted feedback and support. It also promotes self-directed learning and empowers learners to take ownership of their education. By implementing personalized learning strategies in E-learning platforms, educators can create a customized and adaptive learning environment that maximizes learners’ potential.

Declaration of conflicting interest

We as authors in this case state that there is no conflict of interest that occurs. We did this research earnestly.

References


