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INFORMATION AND COMMUNICATION TECHNOLOGY FOR INCLUSIVE EDUCATION: A LITERATURE REVIEW AND ITS IMPLICATIONS FOR COMMUNITY SERVICE

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Abstract

Inclusive education is an approach that seeks to provide access to quality education for all learners, including those with special needs. Information and Communication Technology (ICT) has been recognized as one of the tools that can advance inclusive education by providing a variety of adaptive and interactive learning tools. This research aims to explore how ICT can be integrated in inclusive education and the impact it has on community service. The research method used in this study was a literature review. The findings show that ICT provides innovative ways of adapting learning materials that support various learning needs and facilitate early intervention and individualized education. The use of assistive communication devices, accessible educational software and interactive media contribute to a more inclusive learning experience. In addition, there was an improvement in teachers' positive attitudes and readiness to implement ICT-supported inclusive learning methods. However, the study also identified barriers, including limited infrastructure availability, lack of training for ICT use, and the need for more adaptive content.

Keywords: Information and Communication Technology, Inclusive Education, Implication in Community Service.

Introduction

Education is a basic right that must be accessible to all levels of society, without exception (Sitopu et al., 2024; Guna et al., 2024). The concept of inclusive

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education, which aims to integrate all learners with special needs, whether physical, intellectual, social, emotional or linguistic, into the regular education system, has become a direction in education reform in many countries (Hoogerwerf et al., 2021). It aims to give every individual the right to education according to their needs and potential.

Inclusive education is an approach in the education system that aims to ensure that every child, regardless of ability, disability, social status, gender, ethnicity or other special needs, has an equal opportunity to access quality education (Oralbekova et al., 2016). The principle of inclusive education is to recognize and respond to learner diversity by seeing it as an opportunity rather than a barrier. This includes providing a learning environment that is supportive and responsive to the specific needs of each individual, through curriculum modifications, diverse learning strategies and appropriate resources and support (Chambers, 2020). At the heart of inclusive education is the belief that everyone has the right to learn together in the same environment, and all students can benefit from this system (Nwokolo et al., 2018).

In today's digital era, the relevance of inclusive education is becoming increasingly important as Information and Communication Technology (ICT) advances. ICT opens up new opportunities to enrich inclusive education through the development of adaptive learning tools and personalization of the learning process (Starcic, 2010). Digital technologies can support the creation of more inclusive teaching materials, enabling learners with special needs to access information and participate in learning activities in ways that suit their abilities (Grönlund et al., 2010). For example, screen reader software for students with visual impairments or learning videos equipped with subtitles for students with hearing impairments. This digital age offers opportunities to overcome a number of physical and psychological barriers in conventional education, while emphasizing the importance of integrating inclusive education principles in the design of learning technologies (Swain et al., 2024).

The use of ICT can be a key factor that enables equal access, participation and achievement for all learners, especially those with special needs (Hairiyanto et al., 2024; Tubagus et al., 2023; Aslan & Shiong, 2023).

However, ICT integration in inclusive education is not free from challenges. Uneven ICT infrastructure, lack of training for educators in using ICT for inclusive education purposes, and a lack of educational resources specifically designed to support the needs of learners with special needs are some of the barriers that are

often faced (Brodin & Lindstrand, 2008). Therefore, a comprehensive understanding of how ICT can be effectively developed and integrated in the context of inclusive education is crucial.

Furthermore, this research also aims to identify gaps in the literature, and to formulate recommendations that can be applied in community service. This will not only improve the accessibility and quality of inclusive education but also provide far-reaching benefits for sustainable community development (Greunen & Steyn, 2015).

The results of this research can support more effective policy-making and practice in providing wider and more equitable access to education. By understanding how ICT can be adapted to support the needs of diverse learners, actors in community service can design and implement initiatives that improve engagement and learning outcomes for individuals who are marginalized or who have special needs (SCHOOLS, 2012). This helps in creating a more inclusive and democratic society, where every member of society has equal opportunities to contribute and develop without any barriers in terms of capability or access to educational resources (Nantongo & Hetland, 2020).

With this background, the author would like to look further into how ICT utilization can be maximized to support inclusive education and how the implications of the findings can be applied in community service.

Research Methods

The study in this research uses the literature research method. The literature research method is a research approach that relies on existing written sources to generate new understanding or insight into a topic or problem (Heijden, 2024; Kraus et al., 2024). In general, this method involves the process of collecting, identifying, compiling, and analyzing various sources of information relevant to the research objectives. This process includes searching for relevant keywords to access sources from pertinent catalogs, indexes, or search engines to ensure comprehensive and relevant literature coverage (Haslam et al., 2024; Torres et al., 2024). Once the data is collected, the researcher reads and records important information and organizes the research material in order to obtain a reliable synthesis or conclusion on the topic under study (Swain et al., 2024).

Results and Discussion

ICT's contribution to inclusive education

Information and Communication Technology (ICT) contributes significantly to inclusive education by enabling more adaptive and personalized educational approaches that meet individual needs. Through the use of educational software, customizable learning applications and online platforms, ICT offers various ways for students with special needs to fully participate in the learning process (Pitula & Radhakrishnan, 2007). For example, students with motor disabilities can utilize voice recognition software to interact with computers without having to use their hands, while assistive technology tools such as digital textbooks with text magnification capabilities or audio output can help students with visual impairments to access course materials (Hoogerwerf et al., 2021). Thus, accessibility is increased and opportunities for more equitable learning among students are achieved.

In addition, ICT also strengthens collaboration in teaching and learning and increases resources for educators in providing inclusive learning experiences. Teachers can utilize ICT to prepare media-rich and interactive teaching materials that target various learning styles, facilitate more inclusive discussions through online forums, and monitor the learning progress of each student individually (Raja, 2016). Learning platforms such as Learning Management Systems (LMS) enable teachers to adapt curricula and provide differential assessment tailored to diverse learning needs, encouraging every child's participation in education (Wedasinghe et al., 2017). ICT also supports training and professional development for educators in inclusive pedagogical approaches, strengthening their capacity to create supportive and welcoming learning environments for all students (Starcic, 2010).

Beyond individualized accommodation, ICTs facilitate broader cultural change towards inclusive education by enabling the sharing of resources and best practices across countries. Educators from diverse backgrounds can connect through online networks to exchange ideas, develop inclusive curricula and collaborate on international projects, thus strengthening the global community committed to education for all (Wong et al., 2014). In addition, ICT can empower students to become active participants in their own learning process, offering a platform for peer interaction, and a tool that encourages independence and self-determination (Brodin & Lindstrand, 2008).

However, challenges exist in the effective integration of ICT into inclusive education. These include ensuring equitable access to digital technology, addressing the digital divide, and providing adequate training for teachers to use technology inclusively (Starcic, 2010). There is also a need to protect students' privacy and safety online, especially those who are more vulnerable. Continuous research, policy-making and inclusive design principles are essential to address these challenges (Greunen & Steyn, 2015). Investing in ICT for inclusive education requires not only technological infrastructure, but also an ongoing commitment to developing digital literacy skills among educators and students, supporting the creation of accessible content, and promoting an inclusive culture that values diversity and ensures that all students can tap into the potential offered by ICT (Lorini et al., 2014).

In conclusion, the role of ICT in inclusive education is an important one, offering transformational possibilities for students with diverse learning needs. When carefully planned and thoughtfully implemented, ICT can support educators to provide more equitable learning environments, foster a culture of inclusion, and prepare all students, regardless of their individual challenges, for active and fulfilling participation in society. The future of inclusive education is inextricably linked to how well we can harness the power of technology to subvert barriers and build learning communities that value the potential of each member.

Use of ICT in inclusive education

The use of Information and Communication Technology (ICT) in inclusive education has an important role in ensuring that all students, including those with special needs, can access educational materials effectively. Through various tools and applications, ICT enables the provision of accessible content, such as digital textbooks that can be read by voice-activated devices for the visually impaired, or videos with subtitles for students who are deaf (Nantongo & Hetland, 2020). In addition, customizable educational software allows teachers to customize learning experiences based on the individual needs of each student, making education more inclusive and interactive (Ott & Pozzi, 2009).

Furthermore, ICT supports better collaboration and communication between students and educators, especially in environments that support distance learning. Online learning platforms and collaborative tools such as forums and virtual classrooms facilitate the participation of all students, regardless of their physical or geographical limitations (Simpson, 2009). By integrating ICT, schools can extend

their reach and provide more effective support, ensuring that every student gets an equal opportunity to succeed in their education (Shava & Vyas-Doorgapersad, 2023).

However, the implementation of ICT in inclusive education is not without challenges. One of the main barriers is the digital divide, which refers to differences in access to technology between students from different socioeconomic backgrounds. Schools must ensure that every student has access to the necessary devices and internet connectivity to keep up with learning (Bong & Chen, 2024). In addition, teachers need to receive adequate training on how to use technology effectively in inclusive education. This includes developing accessible course materials and using technology tools to meet diverse learning needs (Andrade & Doolin, 2016).

Solutions to such challenges include partnerships with non-governmental organizations and the private sector to provide devices and internet connectivity for students in need. Continuous teacher education is also important, with a focus on inclusive learning strategies that utilize technology (Heeks, 2017). Policy development by educational institutions and governments that supports the use of ICT in inclusive education is also crucial, to overcome financial, technical and human resource barriers (Nicu, 2019).

In the long term, the integration of ICT in inclusive education has the potential not only to increase accessibility and engagement in learning but also to instill important skills for students, such as digital literacy, problem solving and communication (Mnyanyi, n.d.). Thus, ensuring the effective implementation of ICT in inclusive education is a key step towards creating a more equitable and inclusive education system for all.

Implications for Community Service in the context of Education

In the context of education, community service has broad and diverse implications. First, it encourages education that is applied and relevant to the needs of local communities. Through community service programs, educational institutions can integrate classroom learning with real challenges and problems facing the community. This provides opportunities for students to apply the theories they learn in real-world situations, thus enhancing their skills such as critical thinking, teamwork, and leadership (Pailla & Venter, 2017). In addition to educational benefits, community service also develops a sense of empathy and

social responsibility in students, preparing them to become engaged and caring citizens (Greunen & Steyn, 2015).

Aside from the students' perspective, community service helps educational institutions strengthen their relationship with the local community. Schools or universities become centers of innovation and resources that can comment positively on local issues (Samsinar & Gaol, 2018). For example, projects that involve students in digital training for locals can help reduce the digital divide, while business consultancy provided by business students to local small businesses can support community economies. Through direct involvement in community service, educational institutions can better tailor their curriculum and research programs to address specific needs and promote sustainable development (Williams et al., 2005).

The involvement of educational institutions in community service also often strengthens collaboration between institutions and across sectors (Nurdiana et al., 2023; Sarmila et al., 2023; Haddar et al., 2023). Schools and universities that embed community service values in their education tend to foster partnerships with government, private, and non-profit organizations. The implication is that service programs become an effective medium to share academic knowledge with the wider community, enabling research-based innovations and solutions to be implemented to address social problems. This engagement creates a support network for students to gain professional experience, while the community benefits from access to academic resources and expertise oriented towards providing practical solutions (Ahmad, 2015).

Finally, community service by educational institutions offers the potential for social transformation. Community service programs are built on the basis that education has an important role in developing a civilized society. Through projects that focus on improving quality of life, poverty alleviation, public health, and environmental conservation, education escapes the confines of classroom walls to become an instrument that mobilizes knowledge and skills for the greater good (Al-Husseiny, 2019). Overall, community service not only enriches students' learning experience, but also becomes an important means to strengthen the competitiveness and relevance of education in a changing society (Pattanaik & Pattnaik, 2019).

Challenges and opportunities for ICT implementation in inclusive education

The application of Information and Communication Technology (ICT) in inclusive education offers opportunities as well as facing significant challenges. One

of the biggest challenges is inequality in access to technology. Students from economically disadvantaged backgrounds may not have adequate technology equipment or stable internet access, which limits their ability to take full advantage of digital learning resources (Huamán-Romaní et al., 2022). In addition, the lack of training for teachers in integrating technology into their teaching practices is also a barrier, as many teachers may not be familiar or comfortable with the latest technological tools that can support inclusive education (Markauskaite, 2006).

On the other hand, the application of ICT in inclusive education opens up vast opportunities to help meet individual learning needs. Technology can be used to create more adaptive and personalized teaching materials, which can adjust the level of difficulty and learning style to suit each student. The use of tools such as language learning software, interactive math apps and virtual learning platforms can increase students' engagement and motivation and allow them to learn at their own pace and ability (Costa & Garrido, n.d.). Through innovation and cooperation between governments, educational institutions and the private sector, barriers to ICT implementation can be reduced, while maximizing the benefits of inclusive education for all learners (Gelastopoulou & Kourbetis, 2017).

In addition, curriculum adaptations that are responsive to the needs of students with special needs are important in the implementation of ICT for inclusive education. The challenge here is to create content that is not only accessible in a technical sense but also pedagogically (Hoogerwerf et al., 2021). The use of ICT should be accompanied by materials that are accessible to students with different types of disabilities - such as text optimized for screen reader software for users with visual impairments or videos with subtitles for those with hearing impairments. Teacher training with regard to inclusive teaching methodologies and the use of supportive ICT tools should be continuously improved. Often, this requires a significant investment of time and resources that may not be available in all educational institutions (Moisey, 2007).

In the context of the conclusion, the incorporation of ICT in inclusive education has great transformational potential. It offers innovative ways to improve access and quality of education for all learners, especially those with special needs. However, challenges such as inequality of access, lack of teacher training, and the need for adaptive and inclusive teaching materials must continue to be addressed through cooperation between all stakeholders. Governments, educational institutions, educators, families and communities must collaborate to develop and implement strategies that will make ICT an efficient, effective and equitable tool in

supporting the implementation of inclusive education. Learning and applying best practices from around the world, and continuously engaging students in creative and collaborative learning processes are key to fully exploiting the potential of ICT in realizing a truly inclusive education system.

Conclusion

Research on Information and Communication Technology (ICT) for inclusive education reviewed through the literature review shows that the use of ICT can play an important role in improving access and quality of learning for students with special needs. Various technologies such as accessible educational software, interactive digital content and communication aids have been identified as media that support inclusive learning. The findings underscore that ICT enables personalized learning, which can be tailored to students' needs and learning pace, and facilitates a more inclusive learning experience that supports individual differences.

The implications for community service can be seen in how ICT can be used as an instrument to increase stakeholders' awareness and competencies related to inclusive education. Training programs and workshops for teachers and educators, as well as information campaigns for parents and communities, can be supported by ICT to embrace the principles of inclusivity. This research confirms the need for strategic integration and sustainable initiatives to expand access to ICT and enrich learning resources for all learners, including those with learning disabilities. In this way, community service can be directed towards building local capacity to use ICT so that all community members can be involved in supporting effective inclusive education.

References

Ahmad, F. (2015). Use of assistive technology in inclusive education: Making room for diverse learning needs. *Transcience*, *Query date: 2024-05-12 20:21:26*. http://www2.hu-berlin.de/transcience/Vol6_No2_62_77.pdf

Al-Husseiny, N. (2019). *Using ICT in inclusive learning programs for Persons with Disabilities and its impact on their lives*. *Query date: 2024-05-12 20:21:26*. https://www.econstor.eu/bitstream/10419/201741/1/ITS2019-Aswan-paper-36.pdf

Andrade, A., & Doolin, B. (2016). Information and communication technology and the social inclusion of refugees. *Mis Quarterly*, *Query date: 2024-05-12 20:21:26*. https://www.jstor.org/stable/26628912

Aslan, A., & Shiong, P. K. (2023). Learning in the Digital Age Full of Hedonistic Cultural Values Among Elementary School Students. *Bulletin of Pedagogical Research*, *3*(2), Article 2. https://doi.org/10.51278/bpr.v3i2.515

Bong, W., & Chen, W. (2024). Increasing faculty's competence in digital accessibility for inclusive education: A systematic literature review. *International Journal of Inclusive Education*, *Query date: 2024-05-12 20:21:26*. https://doi.org/10.1080/13603116.2021.1937344

Brodin, J., & Lindstrand, P. (2008). ICT and inclusive education in primary schools-pupils with motor disabilities. *Journal of Assistive Technologies*, *Query date: 2024-05-12 20:21:26*. https://doi.org/10.1108/17549450200800022

Chambers, D. (2020). Assistive technology supporting inclusive education: Existing and emerging trends. *Assistive Technology to Support Inclusive Education*, *Query date: 2024-05-12 20:21:26*. https://doi.org/10.1108/S1479-363620200000014001

Costa, R., & Garrido, J. (n.d.). Theoretic-practical assumptions of the inclusive school in the framework of Information and Communication Technologies. *Researchgate.Net*, *Query date: 2024-05-12 20:21:26*. https://www.researchgate.net/profile/Javier-Sarsa/publication/233388735_Theoretic-practical_assumptions_of_the_inclusive_school_in_the_framework_of_Information_and_Communication_Technologies/links/0fcfd50a0dadf2740c000000/Theoretic-practical-assumptions-of-the-inclusive-school-in-the-framework-of-Information-and-Communication-Technologies.pdf

Gelastopoulou, M., & Kourbetis, V. (2017). The use of Information and Communication Technologies for inclusive education in Greece. *… and ICT in Education: Technological …*, *Query date: 2024-05-12 20:21:26*. https://doi.org/10.1007/978-3-319-34127-9_18

Greunen, D. van, & Steyn, J. (2015). *ICTs for inclusive communities in developing societies*. books.google.com. https://books.google.com/books?hl=en&lr=&id=_bIPCwAAQBAJ&oi=fnd&pg=PR5&dq=information+and+communication+technology+inclusive+education+community+service&ots=rj564p7iOy&sig=bMH_oZkBI1dT3iGWg-oQg9uC_dg

Grönlund, Å., Lim, N., & Larsson, H. (2010). Effective use of assistive technologies for inclusive education in developing countries: Issues and challenges from two case studies. *International Journal of Education …*, *Query date: 2024-05-12 20:21:26*. https://www.learntechlib.org/p/42264/

Guna, B. W. K., Yuwantiningrum, S. E., Firmansyah, S, M. D. A., & Aslan. (2024). Building Morality and Ethics Through Islamic Religious Education In Schools. *IJGIE (International Journal of Graduate of Islamic Education)*, *5*(1), Article 1. https://doi.org/10.37567/ijgie.v5i1.2685

Haddar, G. A., Haerudin, H., Riyanto, A., Syakhrani, A. W., & Aslan, A. (2023). THE REVOLUTION OF ISLAMIC EDUCATION THOUGHT IN THE ERA OF SOCIETY 5.0: CORRECTIONS AND ANALYSIS OF STUDIES IN ISLAMIC HIGHER EDUCATION INSTITUTIONS IN SOUTH KALIMANTAN. *International Journal of Teaching and Learning*, *1*(4), Article 4.

Hairiyanto, Sartika, E., Fransiska, F. W., & Aslan. (2024). UNDERSTANDING THE STUDENTS' ENGLISH LEARNING ACHIEVEMENT AND HOME ENVIRONMENT SUPPORTS DURING SCHOOL CLOSURE TO RESPOND TO PANDEMIC AT PRIVATE MADRASAH TSANAWIYAH AT-TAKWA SAMBAS. *International Journal of Teaching and Learning*, *2*(4), Article 4.

Haslam, S., McGarty, C., Cruwys, T., & Steffens, N. (2024). *Research methods and statistics in psychology*. books.google.com. https://books.google.com/books?hl=en&lr=&id=q6QBEQAAQBAJ&oi=fnd&pg=PT10&dq=literature+research+methods&ots=ApvBJoo6_F&sig=T_K1lIAIk0GshPQ8_qN2dtRoKQk

Heeks, R. (2017). *Information and communication technology for development (ICT4D)*. taylorfrancis.com. https://doi.org/10.4324/9781315652603/information-communication-technology-development-ict4d-richard-heeks

Heijden, J. van der. (2024). Unravelling programme success and complex causation in Agricultural Research for Development (AR4D): A systematic and comprehensive literature review. *Agricultural Systems*, *Query date: 2024-05-10 07:14:07*. https://www.sciencedirect.com/science/article/pii/S0308521X24000015

Hoogerwerf, E., Mavrou, K., & ... (2021). The Role of Assistive Technology in Fostering Inclusive Education. *Strategies and Tools to …*, *Query date: 2024-05-12 20:21:26*. https://api.taylorfrancis.com/content/books/mono/download?identifierName=doi&identifierValue=10.4324/9780429428241&type=googlepdf

Huamán-Romaní, Y., Burga-Falla, J., & ... (2022). Use and knowledge of ICTs in inclusive education at educational levels. *… Technologies in …*, *Query date: 2024-05-12 20:21:26*. https://www.learntechlib.org/p/222827/

Kraus, S., Bouncken, R., & Aránega, A. Y. (2024). The burgeoning role of literature review articles in management research: An introduction and outlook. *Review of Managerial Science*, *Query date: 2024-05-10 07:14:07*. https://doi.org/10.1007/s11846-024-00729-1

Lorini, M., Zyl, I. V., & Chigona, W. (2014). ICTs for inclusive communities: A critical discourse analysis. *International Development Informatics …*, *Query date: 2024-05-12 20:21:26*. https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=878fcaf409f2f22fab3b57342a735f5b60cc4020

Markauskaite, L. (2006). Towards an integrated analytical framework of information and communications technology literacy: From intended to implemented and achieved dimensions. *Information Research: An International Electronic …*, *Query date: 2024-05-12 20:21:26*. https://eric.ed.gov/?id=EJ1104648

Mnyanyi, C. (n.d.). Information and Communication Technology in Lifelong Learning: Opportunities for People with Disabilities. *Researchgate.Net*, *Query date: 2024-05-12 20:21:26*. https://www.researchgate.net/profile/Cosmas-Mnyanyi/publication/377089678_Information_and_Communication_Technology_in_Lifelong_Learning_Opportunities_for_People_with_Disabilities/links/659d1de93c472d2e8ebfb8b8/Information-and-Communication-Technology-in-Lifelong-Learning-Opportunities-for-People-with-Disabilities.pdf

Moisey, S. (2007). The Inclusive Libraries Initiative: Enhancing the Access of Persons with Developmental Disabilities to Information and Communication Technology. *Developmental Disabilities Bulletin*, *Query date: 2024-05-12 20:21:26*. https://eric.ed.gov/?id=EJ812646

Nantongo, P., & Hetland, P. (2020). Inclusive education and digital divides: The case of video materials in In-service teacher training. *… . Net-Media, Technology and Lifelong Learning*, *Query date: 2024-05-12 20:21:26*. https://www.duo.uio.no/handle/10852/80196

Nicu, A. (2019). INFORMATION AND COMMUNICATION TECHNOLOGY FOR INCLUSIVE EDUCATION–THE EVALUATION OF A TEACHER TRAINING. *Educația Plus*, *Query date: 2024-05-12 20:21:26*. https://www.ceeol.com/search/article-detail?id=778726

Nurdiana, R., Effendi, M. N., Ningsih, K. P., Abda, M. I., & Aslan, A. (2023). COLLABORATIVE PARTNERSHIPS FOR DIGITAL EDUCATION TO IMPROVE STUDENTS' LEARNING ACHIEVEMENT AT THE INSTITUTE OF ISLAMIC RELIGION OF SULTAN MUHAMMAD SYAFIUDDIN SAMBAS, INDONESIA. *International Journal of Teaching and Learning*, *1*(1), Article 1.

Nwokolo, C., Nkanu, S., & ... (2018). Availabilty and Utilization of Information Communication Technologies by Special Education Teachers to Enhance Inclusive Education Goals. *Journal of Education …*, *Query date: 2024-05-12 20:21:26*. http://research.manuscritpub.com/id/eprint/2052/

Oralbekova, A., Arzymbetova, S., Begalieva, S., & ... (2016). Application of Information and Communication Technologies by the Future Primary School Teachers in the Context of Inclusive Education in the Republic of …. *… and Science Education*, *Query date: 2024-05-12 20:21:26*. https://eric.ed.gov/?id=EJ1114631

Ott, M., & Pozzi, F. (2009). Inclusive education and ICT: reflecting on tools and methods. *Assistive Technology from Adapted Equipment …*, *Query date: 2024-05-12 20:21:26*. https://doi.org/10.3233/978-1-60750-042-1-635

Pailla, S., & Venter, K. (2017). Bridging the Digital Divide through Participatory Action Research and Inclusive Communication Systems. *INTED2017 Proceedings*, *Query date: 2024-05-12 20:21:26*. https://library.iated.org/view/PAILLA2017BRI

Pattanaik, B., & Pattnaik, I. (2019). Use of mass media and digital communication technology in development education and service delivery: An analytical analysis. *Interaction*, *Query date: 2024-05-12 20:21:26*. https://www.indianjournals.com/ijor.aspx?target=ijor:jcs1&volume=37&issue=3&article=003

Pitula, K., & Radhakrishnan, T. (2007). A conceptual model of inclusive technology for Information access by the rural sector. *… : 4th International Conference on Universal …*, *Query date: 2024-05-12 20:21:26*. https://doi.org/10.1007/978-3-540-73279-2_28

Raja, D. (2016). Bridging the disability divide through digital technologies. *Background Paper for the World Development …*, *Query date: 2024-05-12 20:21:26*. https://pubdocs.worldbank.org/pubdocs/publicdoc/2016/4/123481461249337484/WDR16-BP-Bridging-the-Disability-Divide-through-Digital-Technology-RAJA.pdf

Samsinar, S., & Gaol, D. (2018). INFORMATION AND COMMUNICATION TECHNOLOGY TRAINING IN FULFILLING INCLUSIVE EDUCATION AS THE ACHIEVEMENT OF SUSTAINABLE …. *ICCD*, *Query date: 2024-05-12 20:21:26*. https://www.academia.edu/download/106574857/39.pdf

Sarmila, U., Aslan, A., & Astaman, A. (2023). THE ROLE OF PARENTS TOWARDS YOUTUBE USERS IN BUILDING CHILDREN'S RELIGIOUS BEHAVIOR IN KUALA PANGKALAN KERAMAT VILLAGE. *Archipelago Journal of Southeast Asia Islamic Studies (AJSAIS)*, *1*(2), Article 2.

SCHOOLS, A. (2012). *Inclusive education*. *Query date: 2024-05-12 20:21:26*. https://www.education.act.gov.au/__data/assets/pdf_file/0005/2338430/Inclusive-Education-Strategy.PDF

Shava, E., & Vyas-Doorgapersad, S. (2023). Inclusive participation in information and communication technologies (ICTs) processes for smart services in the city of Johannesburg. *Insights into Regional Development*, *Query date: 2024-05-12 20:21:26*. http://jssidoi.org/ird/article/download/123/Shava_Inclusive_participation_in_information_and_communication_technologies_ICTs_processes_for_smart_services_in_the_city_of_Johannesburg.pdf

Simpson, J. (2009). Inclusive information and communication technologies for people with disabilities. *Disability Studies Quarterly*, *Query date: 2024-05-12 20:21:26*. https://dsq-sds.org/index.php/dsq/article/view/167

Sitopu, J. W., Khairani, M., Roza, M., Judijanto, L., & Aslan, A. (2024). THE IMPORTANCE OF INTEGRATING MATHEMATICAL LITERACY IN THE PRIMARY EDUCATION CURRICULUM: A LITERATURE REVIEW. *International Journal of Teaching and Learning*, *2*(1), Article 1.

Starcic, A. (2010). Educational technology for the inclusive classroom. *Turkish Online Journal of Educational Technology …*, *Query date: 2024-05-12 20:21:26*. https://eric.ed.gov/?id=EJ898012

Swain, S., Jebarajakirthy, C., Sharma, B., & ... (2024). Place branding: A systematic literature review and future research agenda. *… of Travel Research*, *Query date: 2024-05-10 07:14:07*. https://doi.org/10.1177/00472875231168620

Torres, B., Serrasqueiro, Z., & Oliveira, M. (2024). Portugal's Crowdfunding: A Systematic Literature Review. *Journal of Risk and Financial …*, *Query date: 2024-05-10 07:14:07*. https://www.mdpi.com/1911-8074/17/1/37

Tubagus, M., Haerudin, H., Fathurohman, A., Adiyono, A., & Aslan, A. (2023). THE IMPACT OF TECHNOLOGY ON ISLAMIC PESANTREN EDUCATION AND THE LEARNING OUTCOMES OF SANTRI: NEW TRENDS AND POSSIBILITIES. *Indonesian Journal of Education (INJOE)*, *3*(3), Article 3.

Wedasinghe, N., Sirisoma, N., & Wicramarachchi, A. (2017). *Building digitally inclusive differently abled community in Sri Lanka: An Information and Communication Technology (ICT) policy framework*. 192.248.104.6. http://192.248.104.6/handle/345/1694

Williams, R., Stewart, J., & Slack, R. (2005). *Social learning in technological innovation: Experimenting with information and communication technologies*. books.google.com. https://books.google.com/books?hl=en&lr=&id=gXWKXMmmJswC&oi=fnd&pg=PP10&dq=information+and+communication+technology+inclusive+education+community+service&ots=MzwN2SS66U&sig=f-HKvfufjE3V7oD8vY2Yn1DZREs

Wong, Y., Chen, H., Lee, V., Fung, J., & Law, C. (2014). Empowerment of senior citizens via the learning of information and communication technology. *Ageing International*, *Query date: 2024-05-12 20:21:26*. https://doi.org/10.1007/s12126-013-9185-4