UNIJERPS
Unizik Journal of Educational Research and Policy Studies VOL.19 (1);
January-June, 2025 https://unijerps.org
2023 Impact Factor: **6.834;** 2022 ***Impact Factor***: 5.156; ***2021 Impact Factor: 5.641;***
2020 Impact Factor: 5.355. *Indexing and Impact Factor URL: http://sjifactor.com/passport.php?id=21363*

INSTRUCTIONAL LEADERSHIP IN THE ERA OF AI: CORRELATES TO OPEN SCHOOL CLIMATE IN SECONDARY SCHOOLS IN ANAMBRA STATE

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ABSTRACT

In this research, the author explored the relationship between instructional leadership in the era of artificial intelligence (AI) and the fostering of an open school climate in secondary schools in Anambra State, Nigeria. With rapid technological advancements, school leaders are increasingly required to integrate AI into educational systems to enhance learning environments. This research examines how effective instructional leadership can create a positive school climate conducive to innovation, collaboration, and continuous improvement.

Introduction

The advent of AI technology has profoundly influenced various sectors, including education. In Nigeria, particularly in Anambra State, educational leaders are tasked with embracing these advancements to improve instructional practices and create an open school climate. Instructional leadership encompasses the strategies and behaviors school leaders employ to enhance teaching and learning, fostering an environment that promotes collaboration and openness (Hallinger, 2011; Chike Okosa, Ibe and Ojimba, 2023; Okeke and Okaforcha, 2018). This study aims to understand how instructional leadership, facilitated by AI, can cultivate an open school climate that supports effective learning and teaching in secondary schools. The integration of artificial intelligence (AI) into education represents a fundamental shift in teaching and learning paradigms across the globe. In contrast to traditional approaches, which largely relied on rote memorization and standardized testing, AI offers personalized, adaptive learning experiences that cater to the diverse needs and preferences of students (Iloka, 2023); Nwakoby and Ilodigwe, 2022; Ibe, 2022; Ibe, Nwakoby & Ihediuche, 2024). This evolution invites educational leaders, particularly in secondary schools, to redefine their instructional practices and embrace innovative strategies that foster an environment conducive to learning and collaboration. In Anambra State, Nigeria, where educational landscapes are characterized by both opportunities and challenges, the role of instructional leadership becomes increasingly critical.

Instructional Leadership

Instructional leadership refers to the actions taken by school leaders to improve student learning outcomes through effective teaching practices and collaborative environment. According to Okaforcha and Okeke (2019); Ezeaku (2012); Okeke (2023); Okoye (2018), instructional leaders focus on three primary roles: defining the school's mission, managing the curriculum and instruction, and promoting a positive learning environment. In the context of AI, instructional leaders can leverage technology to enhance teaching strategies, provide real-time feedback, and personalize learning, thereby creating a more supportive and engaging atmosphere for students and teachers alike (Ojimba, 2024); Okoye, 2017; Okoye, 2016; Nwakoby and Nwakoby, 2023). Instructional leadership is defined as a leadership approach that primarily focuses on the improvement of teaching and learning within educational institutions (Hallinger & Murphy, 1987). It involves guiding and supporting teachers, setting clear educational goals, and actively engaging with students and stakeholders to create a positive learning environment. Educational leaders aim to cultivate a school climate that promotes academic achievement, fosters teacher collaboration, and enhances student engagement. The ideal implementation of instructional leadership aligns with the tenets of an open school climate, which emphasizes transparency, trust, respect, and inclusivity among all stakeholders (Ilodigwe and Nwakoby, 2021; Iloka, 2021; Nwakoby,2023).

AI and the Transformation of Educational Leadership

The infusion of AI into educational practices presents both opportunities and challenges. The potential for data-driven decision-making enables leaders to identify student needs, allocate resources efficiently, and evaluate instructional practices (Nwakoby, 2024; Nwakoby and Chukwujekwu, 2020). AI can support personalized learning, allowing educators to tailor curriculum and instruction to individual student profiles (Ibe, 2019; Okoye, 2017; Ezeaku, 2013). This adaptability not only enhances academic performance but also enables students to engage more fully with their education, thereby fostering a sense of ownership and agency in their learning processes.

As instructional leaders navigate these transformations, they must ensure that the adoption of AI tools aligns with the overarching goal of fostering an open school climate. The collaborative nature of AI-driven educational environments requires leaders to promote transparency and inclusivity, creating avenues for communication and feedback. For instance, AI tools can facilitate real-time assessment of student performance and learning behaviors, allowing educators to provide immediate feedback and adjust their instructional strategies accordingly (Ojimba, 2023; Okeke and Okaforcha, 2020; Iloka, 2022). This immediate and continuous feedback loop fosters trust among students and educators, reinforcing the foundation of an open school climate.

Moreover, leaders must address the diverse needs of the student population when implementing AI technologies. In many cases, socio-cultural factors can influence the effectiveness of technology in the classroom, making it crucial for leaders to recognize and respond to these dynamics. Emphasizing equity and access is vital to ensuring that all students benefit from AI-enhanced learning opportunities, particularly in regions like Anambra State, where disparities in access to resources may exist.

As we navigate the fourth industrial revolution characterized by rapid technological advancements, the imperative for educational leaders in secondary schools to harness AI effectively has never been more pressing. An open school climate is pivotal in leveraging these technologies, as it encourages innovation, risk-taking, and engagement among students and educators. In Anambra State, where many secondary schools are grappling with issues of inadequate resources, socio-political challenges, and varying levels of technology adoption, understanding the interplay between instructional leadership and school climate is essential for realizing the potential benefits of AI-driven educational practices.

Open School Climate

An open school climate is characterized by transparency, collaboration, and a sense of community among students, teachers, and parents. It promotes trust, respect, and an environment where stakeholders feel empowered to express their ideas and concerns (Okaforcha and Okeke, 2018; Ezeaku, 2019; Okeke, 2022). A positive school climate not only enhances student engagement but also contributes to improved academic performance and well-being. In the age of AI, creating an open school climate involves utilizing technology to facilitate communication, collaboration, and shared decision-making processes within the school community.

An open school climate is characterized by a culture of trust, support, and collaboration among all stakeholders within the educational community. This environment not only encourages teachers to share best practices and engage in collective problem-solving but also empowers students to express their ideas, concerns, and aspirations. To cultivate such a climate, instructional leaders must prioritize relationship-building and community engagement (Nwakoby and Nwakoby, 2022; Ojimba, 2020). By actively involving parents, community members, and other stakeholders in the educational process, leaders can create a sense of shared responsibility for student success and institutional improvement.

The correlation between instructional leadership and open school climate is particularly salient in the era of AI. As leaders implement AI technologies and data-driven decision-making processes, transparency and open communication become paramount. Instructional leaders who exemplify openness and vulnerability by sharing challenges, successes, and insights foster a culture of continuous improvement that benefits the entire school community (Harris, 2009; Okaforcha and Okeke, 2019;

Ezeaku, 2014). Furthermore, encouraging teachers to participate in professional development programs and collaborate on AI integration fosters a sense of ownership and agency among educators, making the transition to an AI-enhanced educational environment more effective and sustainable.

The Context of Anambra State Education

Anambra State has made significant strides in improving its educational system over the past few decades. However, ongoing challenges, including a lack of infrastructure, insufficient teacher training, and limited access to educational technology, have hindered progress (Ojimba, 2021; Okaforcha and Okeke, 2018; Ezeaku and Obikeze, 2018; Iloh et al., 2022). With Nigeria's push towards integrating technology in education, secondary schools in Anambra State have begun to explore the potential of AI tools to enhance the learning experience. However, successful implementation relies heavily on effective instructional leadership that can navigate the complex dynamics of the school environment.

The Path Forward: Integrating AI within Instructional Leadership

For secondary schools in Anambra State to thrive in the digital age, instructional leaders must embrace AI and its potential while remaining attentive to the importance of fostering an open school climate. This integration requires a thoughtful approach that balances the demands of technology with the human elements of education. Leaders must commit to ongoing professional development, allowing educators to develop their capacity for utilizing AI tools effectively and responsibly (Ezeaku, 2012; Okoye, 2021; Ani, Iloka and Nwakoby, 2021; Luckin et al., 2016).

Additionally, school leaders should prioritize the establishment of collaborative structures and strategies that promote ongoing dialogue and input from students, teachers, and parents. AI technologies can facilitate these interactions, providing platforms for feedback and communication that enhance relational trust and engagement. By creating opportunities for stakeholders to participate in decision-making processes, instructional leaders can reinforce a sense of community ownership over educational practices and outcomes.

Schools need leaders who not only understand the pedagogical implications of AI but also possess the skills to create a school climate that supports risk-taking and experimentation (Okaforcha and Okeke (2020); Ibe and Udeoji (2019) Davis et al., 2019). Instructional leaders must advocate for the professional development of teachers in AI proficiency, ensuring that educators feel empowered to utilize technology effectively in their classrooms. Consequently, the role of instructional leadership extends beyond mere management; it encompasses a commitment to fostering an open school climate that prioritizes collaboration, accountability, and shared values among stakeholders.

The Role of AI in Educational Leadership

AI technologies offer significant potential to transform instructional leadership practices. By harnessing data analytics, machine

learning, and intelligent tutoring systems, school leaders can make data-informed decisions that enhance teaching and learning (Luckin et al., 2016). The integration of AI into instructional leadership can manifest in several ways:

Data-Driven Decision-Making: AI can analyze student performance data, enabling leaders to identify areas needing improvement and tailor interventions that meet specific learning needs (Picciano, 2019). Personalized Learning: Implementing AI-driven personalized learning systems allows teachers to customize educational experiences based on individual student requirements, fostering an open climate where students can progress at their own pace (Pane et al., 2015).

Enhanced Collaboration: AI tools facilitate communication among educators, students, and parents, promoting collaborative approaches to problem-solving and decision-making in the school environment.

Professional Development: AI can support ongoing professional development for teachers by providing them with access to personalized learning resources and AI-driven instructional strategies (Nwogu and Nwakoby, 2021; Ughamadu, Okaforcha and Okeke, 2015).

Correlation Between Instructional Leadership and Open School Climate

Leadership Styles and School Climate

Research indicates that specific instructional leadership qualities correlate positively with an open school climate. For instance:

Transformational Leadership: Transformational leaders inspire and motivate their staff to embrace change, fostering a sense of community and collaboration (Leithwood & Jantzi, 2006). Such leaders are likely to encourage open communication and shared values, which are essential for developing an open climate.

Distributed Leadership: This leadership style promotes shared responsibility and involvement of various stakeholders in decision-making processes. It emphasizes collaboration and mutual support, which contribute to an open climate (Harris, 2009).

Implementing AI in Instructional Leadership

Incorporating AI into instructional leadership practices can enhance the correlation between leadership and school climate. Effective leaders who leverage AI tools can:

Foster Inclusivity: By utilizing AI to identify diverse learning styles, instructional leaders can adopt differentiated instruction strategies that cater to the unique needs of all students, creating an inclusive educational environment (Alderton, 2020).

Secondly, Encourage Feedback and Reflection- AI tools can facilitate regular feedback from students and educators, enabling leaders to reflect on their practices and adjust strategies as needed. This feedback loop enhances trust and communication, which are hallmarks of an open school climate.

Enhance Student Agency- Instructional leaders who adopt AI systems that empower students to take control of their learning create an atmosphere conducive to exploration and innovation (Zawacki-Richter et al., 2019).

Challenges and Considerations

While the integration of AI in instructional leadership has notable benefits, several challenges must be addressed:

Technical Infrastructure: Schools in Anambra State may lack the necessary technological infrastructure to implement AI-driven solutions effectively. This can hinder the potential benefits of AI in enhancing instructional leadership approaches (Iloh et al., 2022).

Training and Professional Development: Educators require adequate training to utilize AI tools effectively. Without proper support and professional development, the integration of AI may be ineffective or resisted by staff.

Equity and Access: Ensuring equitable access to AI resources is crucial. Disparities in access can exacerbate existing inequalities in educational outcomes, undermining the efforts of instructional leaders to create an open school climate.

In summary, the correlation between instructional leadership in the era of AI and open school climate in secondary schools in Anambra State is critical for fostering an educational environment conducive to learning and innovation. By embracing AI technology, instructional leaders can enhance their practices, ultimately creating a climate that promotes collaboration, inclusivity, and effective communication. However, addressing challenges related to infrastructure, training, and equity is essential to fully realize the potential of AI in educational leadership. The era of AI presents a unique opportunity for instructional leaders to transform educational experiences in secondary schools in Anambra State. By embracing AI technologies and prioritizing the cultivation of an open school climate, leaders can navigate the complexities and challenges inherent in this era of educational change. Understanding the correlations between instructional leadership, AI integration, and school climate is vital for creating an environment that promotes collaboration, equity, and academic success. It is through this multifaceted approach that educational leaders can ensure that all students benefit from the advancement's technology offers, contributing to a sustainable and inclusive educational future.

Recommendations for Instructional Leadership and Open School Climate

Professional Development for Educators: Targeted Training Programs: Implement continuous professional development programs focusing on AI tools and their applications in teaching. This training should cover both technical skills and pedagogical strategies for integrating AI in the classroom and Collaborative Learning Communities: Foster peer-led workshops and collaborative learning communities where teachers can share experiences, challenges, and successes in using AI tools.

Leverage AI for Decision-Making through data-driven Leadership: Utilize AI analytics to inform decision-making processes. Leaders should use data to assess student needs, evaluate the effectiveness of instructional strategies, and monitor school climate and Feedback Mechanisms-Establish AI-supported feedback systems that allow students and teachers to provide

input on school policies and practices, enhancing transparency and responsiveness.

Cultivating an Inclusive School Climate - Equity in Resource Allocation by ensuring equitable access to AI technologies and resources for all students and teachers, addressing disparities that may exist due to socio-economic factors and Inclusive Decision-Making by Involving diverse stakeholders, including parents and community members, in the development of policies and initiatives related to AI in education.

Encouraging Open Communication through transparent Communication Channels: Implement clear and accessible communication channels between school leaders, teachers, students, and parents to foster trust and collaboration and regular Community Engagement by organizing regular forums and meetings where community members can discuss educational policies and AI's role in learning, promoting a sense of shared responsibility.

Promote Innovation through Risk-Taking and Support for Innovative Practices: Encourage teachers to experiment with new teaching methods and AI tools by providing a supportive environment that values creative risk-taking and innovation and Recognition of Efforts by establish recognition programs for teachers who effectively implement AI in their classrooms, showcasing successful case studies to inspire others.

Establish a Vision for AI Integration through strategic Planning then Develop a clear, strategic plan for the integration of AI in educational practices that aligns with the school's educational goals and vision for an open climate. Continuous Evaluation-Regularly assess the impact of AI tools on teaching and learning outcomes, making adjustments as necessary to enhance effectiveness.

Focus on Student Agency by empowering Student Voice: Create opportunities for students to express their views on AI integration in their learning experiences. This input can significantly inform instructional practices and school climate. AI Literacy Programs by Introducing AI literacy programs that educate students about the capabilities and ethical implications of AI, empowering them to engage critically with technology.

Community Partnerships through Collaboration with Tech Organizations by Form partnerships with technology companies and educational organizations to provide resources, training, and support for AI initiatives in schools. Local Community Engagement: Involve local community members in the educational process by organizing events that showcase students' learning with AI, fostering community pride and support.

By implementing these recommendations requires a concerted effort from instructional leaders, educators, and community stakeholders. By prioritizing professional development, fostering an inclusive school climate, and promoting open communication, secondary schools in Anambra State can

effectively leverage AI technologies to enhance learning outcomes while cultivating a collaborative and supportive educational environment. Through strategic planning and continuous evaluation, schools can ensure that they remain responsive to the evolving educational landscape shaped by advancements in AI.

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