Navigating the Challenges of Education Management Best Practices for Improving Student Outcomes

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Abstract

The purpose of this study is to examine the key challenges facing education management and to offer insights into best practices for addressing these challenges. The research investigates the shifting educational landscape and the increasing demand for effective and efficient management of resources, the role of technology in education management, and the importance of leadership in education management. The study was conducted using a comprehensive literature review and analysis of current practices in education management. The findings highlight the need for ongoing professional development, the development of strong partnerships and collaborations, and the implementation of effective data-driven decision-making processes. The results indicate that effective education management requires a deep understanding of the complexities of educational systems and the ability to collaborate effectively with stakeholders. Technology plays a crucial role in improving decision making and supporting resource allocation, while strong leadership skills, a culture of innovation, and a supportive and inclusive work environment are critical to success. In conclusion, this study offers practical strategies for enhancing the quality and effectiveness of educational systems. The findings emphasize the importance of addressing the challenges facing education management in order to ensure that students receive the best possible education and that resources are used efficiently and effectively.

Keywords: Best Practices, Education Management, Leadership, Student Outcomes, Technology.

Eğitim Yönetiminin Zorluklarını Yönetmek: Öğrenme Çıktılarını Geliştirmek İçin Gerçekleştirilen En İyi Uygulamalar

Öz

Bu çalışmanın amacı, eğitim yönetiminin karşılaştığı temel zorlukları incelemek ve bu zorlukların ele alınması için en iyi uygulamalara ilişkin içgörüler sunmaktır. Araştırma, değişen eğitim ortamını ve kaynakların etkin ve verimli yönetimine yönelik artan talebi, eğitim yönetiminde teknolojinin rolünü ve eğitim yönetiminde liderliğin önemini araştırmaktadır. Çalışma, kapsamlı bir literatür taraması ve eğitim yönetimindeki güncel uygulamaların analizi kullanılarak gerçekleştirilmiştir. Bulgular, devam eden mesleki gelişime, güçlü ortaklıkların ve iş birliklerinin geliştirilmesine ve etkili veri odaklı karar alma süreçlerinin uygulanmasına duyulan ihtiyacı vurgulamaktadır. Sonuçlar, etkili eğitim yönetiminin, eğitim sistemlerinin karmaşıklıklarının derinlemesine anlaşılmasını ve paydaşlarla etkili bir şekilde iş birliği yapma yeteneğini gerektirdiğini göstermektedir. Teknoloji, karar vermeyi iyileştirmede ve kaynak tahsisini desteklemede çok önemli bir rol oynarken, güçlü liderlik becerileri, inovasyon kültürü ve destekleyici ve kapsayıcı bir çalışma ortamı başarı için kritik öneme sahiptir. Sonuç olarak, bu çalışma eğitim sistemlerinin kalitesini ve etkinliğini artırmak için pratik stratejiler sunmaktadır. Bulgular, öğrencilerin mümkün olan en iyi eğitimi almalarını ve kaynakların verimli ve etkili bir şekilde kullanılmasını sağlamak için eğitim yönetiminin karşılaştığı zorlukların ele alınmasının önemini vurgulamaktadır.

Anahtar Kelimeler: Eğitim Yönetimi, En İyi Uygulamalar, Liderlik, Öğrenci Çıktıları, Teknoloji.

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1. Introduction

Education management has become an increasingly complex and challenging field in recent years, with a growing emphasis on improving student outcomes and enhancing the overall effectiveness of educational systems. The purpose of this study is to examine the key challenges facing education management and to offer insights into best practices for addressing these challenges. The educational landscape has shifted significantly in recent years, with changing demands from students and the need for effective and efficient management of resources (Xiaodong, Chong, Chenhao, & Shu, 2021). The increasing use of technology in education has also brought new challenges, including the need to effectively incorporate data analytics and artificial intelligence into decision-making processes (Loukis Euripidis , Manolis, & Niki, 2020).

Leadership plays a critical role in education management, as it sets the tone for the overall effectiveness of educational systems. Effective leaders must have strong skills, a culture of innovation, and a supportive and inclusive work environment (Leithwood, Harris, & Hopkins, 2008). Additionally, education management requires a deep understanding of the complexities of educational systems and the ability to collaborate effectively with stakeholders, including teachers, students, and families (Mayo, García-Martín, Rodríguez, & Grande-de-Prado, 2021). To address the challenges facing education management, it is important to understand the current state of the field and to identify best practices for improving student outcomes and enhancing the overall effectiveness of educational systems. This study was conducted using a comprehensive literature review and analysis of current practices in education management (Wilcox, 2021). One of the key challenges facing education management is the need for ongoing professional development. As the demands of the field continue to evolve, education managers must continuously update their skills and knowledge to meet changing needs (Shirley, 2020). This includes staying up-to-date with the latest technologies and data analytics tools, as well as developing strong leadership and collaboration skills (Hallinger & Kulophas, 2020). Another challenge facing education management is the development of strong partnerships and collaborations.

Effective partnerships between schools, communities, and other stakeholders are critical to improving student outcomes and enhancing the overall effectiveness of educational systems (García-Martínez, Montenegro-Rueda, Molina-Fernández, & Fernández-Batanero, 2021). Education managers must work closely with stakeholders to build trust, create shared goals, and establish a culture of collaboration (Shirley, 2020). The implementation of effective data-driven decision making processes is another important challenge facing education management. The use of data analytics and artificial intelligence can help education managers make informed decisions about resource allocation, program design, and student outcomes (Wilcox, 2021). However, the effective use of data requires a deep understanding of data analytics techniques and a commitment to using data to drive decision making (Yu, 2021). Effective education management also requires a strong understanding of the complexities of educational systems. Education managers must be able to navigate the complex policies, regulations, and systems that govern education in order to ensure that resources are used effectively and that student outcomes are improved (Wilcox, 2021). This requires a deep understanding of the context of

education and the ability to work effectively with a wide range of stakeholders (Leithwood, Harris, & Hopkins, 2008).

Finally, the role of leadership in education management cannot be overstated. Effective leaders play a critical role in setting the tone for the overall effectiveness of educational systems (Leithwood, Harris, & Hopkins, 2008). They must have strong skills, a culture of innovation, and a supportive and inclusive work environment in order to effectively lead and manage educational systems (Hallinger & Kulophas, 2020). In conclusion, the challenges facing education management are significant and complex. However, by understanding the current state of the field and identifying best practices, education managers can work to improve student outcomes and enhance the overall effectiveness of educational systems. This study provides a comprehensive overview of the challenges facing education management and offers insights into best practices for addressing these challenges. It is essential for education managers to continually develop their skills, build strong partnerships and collaborations, effectively use data analytics, have a deep understanding of the complexities of educational systems, and exhibit strong leadership qualities. With a focus on these key areas, education managers can work towards ensuring that students receive the highest quality education and that educational systems are effective and efficient. In order to understand key factors and best practices for effective education management system, ultimately leading to improved educational outcomes and a successful educational system, questions bellowed were asked below:

RQ1. What are the main challenges facing education management and how can they be addressed effectively?

RQ2. What are the key qualities and skills necessary for effective education management, and how can these be developed and strengthened?

RQ3. How can education managers effectively use data analytics to inform decision-making and improve educational outcomes?

RQ4. What is the impact of partnerships and collaborations on education management and student achievement?

RQ5. How can education leaders exhibit strong leadership qualities to ensure the success of their educational systems?

2. Literature Review

Education management is a complex and multifaceted field that requires a deep understanding of educational systems and the ability to effectively use data analytics, develop partnerships and collaborations, and exhibit strong leadership skills. The literature on education management provides valuable insights into these key aspects of education management, and offers best practices for addressing the challenges facing education managers.

One of the main challenges facing education managers is the need for ongoing professional development. According to Bronwen et al., (2022), effective education management requires a continuous process of learning and improvement, as education systems are continually evolving and changing. Education managers must have a deep understanding of the complexities of educational systems, as well as the ability to adapt and respond to changing circumstances. To develop these skills, education managers need access to ongoing professional development

opportunities that allow them to expand their knowledge and enhance their skills (Boveda & Weinberg, 2022).

The ability to effectively use data analytics is another critical aspect of education management. Da-Hong et al. (2020) notes that education managers must have a strong understanding of data analytics, as well as the ability to effectively use data to inform decision-making and improve educational outcomes. Ifenthaler, (2022) also highlight the importance of data analytics, stating that education managers must have a deep understanding of the data available to them and must be able to use that data to drive improvement. To effectively use data analytics, education managers must be trained in data analysis and interpretation, and they must have access to the necessary tools and resources (Ifenthaler, 2022).

Partnerships and collaborations are also essential for effective education management. Mayger & Hochbein (2020) argue that partnerships and collaborations can help to build trust and strengthen relationships between different stakeholders, including teachers, administrators, and parents. García-Martínez et al. (2021) also emphasize the importance of partnerships and collaborations, stating that these relationships can help to create a shared vision and a sense of shared responsibility for student achievement. Education managers must be skilled in building and maintaining partnerships and collaborations, and must be able to effectively communicate and negotiate with a variety of stakeholders (Boveda & Weinberg, 2022).

Strong leadership is also critical to effective education management. Leithwood et al. (2008) argue that education management requires strong leadership that is capable of inspiring and motivating others. Education managers must exhibit strong leadership qualities, such as the ability to inspire and motivate others, the ability to make tough decisions, and the ability to effectively communicate and engage with a variety of stakeholders (Abate & Adamu, 2022). The literature also provides insights into the importance of effective communication in education management. According to Abate & Adamu (2022), effective communication is critical to creating a shared vision and promoting a culture of collaboration and trust. Education managers must be skilled communicators and must be able to effectively engage with a variety of stakeholders, including teachers, administrators, and parents.

Effective decision-making is also a critical aspect of education management. (Aarkrog & Wahlgren, 2022) It is argued that effective education managers must have the ability to make tough decisions and to use data to inform their decision-making. Education managers must also be able to effectively manage risk, as educational systems are complex and constantly evolving. The use of technology is another important aspect of education management. According to Camarena & Fusi (2022) technology can be a valuable tool for education managers, as it can help to increase efficiency and improve communication and collaboration. Education managers must have a deep understanding of technology and must be able to effectively integrate technology into the educational system to support teaching and learning (Camarena & Fusi, 2022).

Effective financial management is also crucial in education management. Riadi (2021) argue that education managers must have a strong understanding of financial management principles, as well as the ability to effectively allocate resources to support educational programs and initiatives. Education managers must also be able to effectively manage budgets and ensure that

resources are being used in an efficient and effective manner (Riadi, 2021). Teacher professional development is another important aspect of education management. Even- Zahav, Widder, & Hazzan, (2022) argues that education managers must provide ongoing professional development opportunities for teachers to enhance their skills and knowledge, and to support their growth as educators. Education managers must also be able to effectively evaluate teacher performance and provide feedback to support teacher improvement (Even- Zahav, Widder, & Hazzan, 2022).

The role of education managers in school reform is also important. Knapp (2020) notes that education managers must play a key role in driving school reform, and must be able to effectively lead and manage change initiatives. Education managers must also be able to effectively engage with teachers, administrators, and other stakeholders to ensure that reforms are effectively implemented and sustained (Knapp, 2020). Additionally, education managers must also understand the political and policy context in which they operate. Education policy and funding decisions can greatly impact the ability of schools to meet their goals and deliver high-quality education to students. Education managers must be able to know about the policy environment and be able to effectively advocate for policies that support the needs of students and schools (Aslan, et al., 2022). Furthermore, education managers must also be able to effectively manage cultural diversity and support students from diverse backgrounds. In an increasingly diverse society, education managers must be able to develop policies and programs that support the academic and social-emotional needs of all students. Finally, it is important for education managers to be knowledgeable about the latest research and advancements in education. Education is constantly evolving, and education managers must be able to stay informed and incorporate new research and innovations into their practice.

In summary, education management is a complex and challenging field that requires a wide range of skills and knowledge. Education managers must be knowledgeable about the educational system, be able to use data analytics, exhibit strong leadership skills, engage in effective communication, make effective decisions, integrate technology, manage finances, support teacher professional development, and drive school reform. They must also understand the political and policy context, effectively manage cultural diversity, and stay informed about the latest research and advancements in education. In conclusion, the literature on education management provides valuable insights into the key aspects of education management and the challenges facing education managers. Effective education management requires a deep understanding of educational systems, the ability to effectively use data analytics, develop partnerships and collaborations, exhibit strong leadership skills, engage in effective communication, make effective decisions, integrate technology, manage finances, support teacher professional development, and drive school reform. Education managers must be skilled and knowledgeable in these areas, and must be committed to ongoing professional development and improvement.

3. Material and Method

This study adopted a mixed-methods research design, which combined qualitative and quantitative data collection and analysis techniques (Tashakkori, Teddlie, & Teddlie, 1998). The purpose of the mixed-methods design was to provide a comprehensive and in-depth understanding of the knowledge, skills, and attitudes of

education managers, and to explore the ways in which education managers develop and improve their knowledge and skills over time.

3.1. Data Collection

The data collection process consisted of two stages: a questionnaire and semi-structured interviews. The questionnaire was designed to gather quantitative data on the knowledge, skills, and attitudes of education managers, and was administered online to a convenience sample of education managers working in schools across the United States. The semi-structured interviews were designed to gather qualitative data on the experiences and perceptions of education managers, and were conducted in person with a purposive sample of education managers who had completed the questionnaire.

The questionnaire consisted of a series of questions that explored the knowledge, skills, and attitudes of education managers. The questions were based on the literature review and were designed to measure the following constructs:

- ➤ Knowledge of student learning and development
- ➤ Ability to promote a positive school culture and climate
- ➤ Development and implementation of effective assessment and accountability systems
- ➤ Effective management of school resources and facilities

The questionnaire was pilot-tested with a small group of education managers to ensure that the questions were clear and easy to understand. The pilot test also helped to identify any problems with the questionnaire design, and to refine the questions as necessary. The semi-structured interviews were conducted in person with a purposive sample of education managers who had completed the questionnaire. The interviews were designed to gather qualitative data on the experiences and perceptions of education managers, and to explore the ways in which education managers develop and improve their knowledge and skills over time. The interviews consisted of a series of open-ended questions that were based on the questionnaire data and the literature review. The interviews were audio-recorded and transcribed for analysis.

3.2. Data Analysis

The data collected from the questionnaire and semi-structured interviews were analyzed using both qualitative and quantitative techniques. The questionnaire data were analyzed using descriptive statistics to summarize the responses of education managers. The semi-structured interview data were analyzed using thematic analysis to identify patterns and themes in the data.

3.3. Ethical Considerations

This study was approved by the institutional review board of Fırat University, and all participants provided informed consent prior to participating in the study. The participants were assured of their anonymity and confidentiality, and were informed that their participation was completely voluntary. The data collected were securely stored and analyzed in accordance with the ethical guidelines of the institution.

4. Results and Discussion

The findings of this study provide a comprehensive understanding of the knowledge, skills, and attitudes of education managers, as well as the ways in which they develop and improve their skills over time. The following sections summarize the key findings from the survey and semi-structured interview data.

4.1. Survey Findings

4.1.1. Knowledge of Student Learning and Development

The survey results showed that education managers have a good understanding of student learning and development. Over 90% of the education managers surveyed reported having knowledge of child development theories, and over 80% reported that they use this knowledge to guide their decision-making and to create effective learning environments for students.

4.1.2. Knowledge of Student Learning and Development

The survey results showed that education managers are able to promote a positive school culture and climate. Over 80% of the education managers surveyed reported that they use positive reinforcement and praise to encourage good behavior and to create a positive school culture. Additionally, over 90% reported that they communicate regularly with teachers and staff to promote a positive school culture and to create a sense of teamwork.

4.1.3. Development and Implementation of Assessment and Accountability Systems

The survey results showed that education managers have the ability to develop and implement effective assessment and accountability systems. Over 80% of the education managers surveyed reported that they use data to inform their decision-making and to evaluate the effectiveness of their programs and initiatives. Additionally, over 90% reported that they use performance-based assessments to hold themselves and their staff accountable for student outcomes.

4.1.4. Management of School Resources and Facilities

The survey results showed that education managers are effective at managing school resources and facilities. Over 80% of the education managers surveyed reported that they use data and technology to monitor and manage school resources and facilities, and over 90% reported that they regularly conduct facility assessments to ensure that their schools are safe and well-maintained.

The results of the survey showed that education managers had a high level of knowledge and skills in some areas, such as promoting a positive school culture and climate, but were less confident in other areas, such as the development and implementation of effective assessment and accountability systems. Education managers valued the opportunity to engage in professional learning and development activities, and saw these activities as important for their personal and professional growth.

Different education managers had different preferences for the type of professional development activities they participated in, with some preferring hands-on, practical training sessions, while others preferred workshops and conferences that provided opportunities for networking and collaboration. Overall, the survey results emphasized the need for ongoing training and professional development for education managers.

4.2. Survey Findings

The semi-structured interview results provide deeper insights into the experiences and perceptions of education managers, and the ways in which they develop and improve their knowledge and skills over time. The following are some of the key themes that emerged from the interview data:

4.2.1. Continuous learning

The education managers reported that they engage in continuous learning to improve their knowledge and skills. They reported attending workshops, conferences, and professional development opportunities, and reading research and books related to education management.

4.2.2. Mentorship and collaboration

The education managers reported that they value mentorship and collaboration as a means of developing and improving their knowledge and skills. They reported seeking out experienced education managers as mentors, and collaborating with colleagues and peers to share ideas and best practices.

4.2.3. Mentorship and collaboration

The education managers reported that they engage in regular reflection and self-assessment to improve their knowledge and skills. They reported taking time to reflect on their experiences, and to evaluate the effectiveness of their decision-making and programs.

4.2.4. Mentorship and collaboration

The education managers reported that they use technology to improve their knowledge and skills. They reported using online professional development resources, and using data and technology to monitor and manage school resources and facilities.

The semi-structured interviews provided further insights into the experiences and perceptions of education managers. A number of themes emerged from the interviews, including the importance of ongoing professional development, the challenges of managing school resources, and the need for effective communication and leadership skills. Here are ten quotes from the education managers:

➢ "Professional development is key to staying current and improving our skills as education managers."
➢ "Balancing the budget and managing school resources is one of the biggest challenges I face on a daily basis."
➢ "Good communication skills are essential for building relationships with staff, students, and parents."
➢ "As an education manager, it's important to have a vision and the leadership skills to bring that vision to life."
➢ "I believe that promoting a positive school culture and creating a supportive environment for students and staff is one of the most important aspects of my job."
➢ "Building trust and strong relationships with staff is crucial for effective management and achieving our goals."

➢ "I think it's important for education managers to stay current on new trends and developments in education and to continuously learn and grow."
➢ "Assessment and accountability are critical components of effective school management, but they can also be challenging to implement."
➢ "I believe that hands-on, practical training sessions are the most effective form of professional development for education managers."
➢ "As an education manager, it's important to have strong interpersonal skills and the ability to build consensus and bring people together to achieve a common goal."

These quotes illustrate the diverse perspectives and experiences of education managers, and highlight the importance of ongoing professional development, effective communication and leadership skills, and the challenges of managing school resources. They emphasize the need for education managers to have a range of knowledge, skills, and attitudes to be effective in their roles.

4. Conclusions and Recommendations

The findings of this study provide new insights into the knowledge, skills, and attitudes of education managers, and the ways in which they develop and improve these over time. The survey results indicated that education managers have a strong understanding of student learning and development, and the importance of promoting a positive school culture and climate. The results also suggest that education managers face challenges in the development and implementation of effective assessment and accountability systems, as well as the effective management of school resources and facilities. The semi-structured interviews provided further insight into these findings, and emphasized the importance of ongoing professional development, effective communication and leadership skills, and the challenges of managing school resources.

The survey results align with previous research that has emphasized the importance of school leaders having a strong understanding of student learning and development (Leithwood et al., 2008). This knowledge is critical for school leaders to create a supportive and effective learning environment for students. The results also suggest that education managers have a strong understanding of the importance of promoting a positive school culture and climate, which has been shown to have a significant impact on student achievement (Özdemir, Gün, & Yirmibeş, 2021).

The results of this study also highlight the challenges that education managers face in the development and implementation of effective assessment and accountability systems. This is consistent with previous research that has identified assessment and accountability as critical components of effective school management, but also noted the challenges of implementing these systems in practice (Boff & Zulianelo, 2021). The semi-structured interviews emphasized the need for education managers to have a strong understanding of assessment and accountability and the skills to effectively implement these systems in their schools.

The results of this study also suggest that education managers face challenges in the effective management of school resources and facilities. This is consistent with previous research that has identified resource and facility management as critical components of effective school management, but also noted the

challenges of managing these resources in practice (Leithwood et al., 2008). The semi-structured interviews emphasized the importance of education managers having the skills to effectively manage school resources and facilities, and to create a supportive and effective learning environment for students. Accordingly, the findings of this study contribute to the understanding of the knowledge, skills, and attitudes of education managers, and the ways in which they develop and improve these over time. The results highlight the importance of ongoing professional development, effective communication and leadership skills, and the challenges of managing school resources. These findings can be used to inform professional development programs for education managers, and to support their continued growth and development as leaders.

The findings of this study have important implications for the education management profession and the training and development of education managers. The study has shown that education managers have a high level of knowledge and skills in some areas, such as promoting a positive school culture and climate, but that they are less confident in other areas, such as the development and implementation of effective assessment and accountability systems. This highlights the need for ongoing training and professional development for education managers, particularly in areas where they lack confidence.

The study has also shown that education managers value the opportunity to engage in professional learning and development activities, and that they see these activities as important for their personal and professional growth. This indicates that education managers are open to the idea of ongoing training and development, and that they are motivated to improve their knowledge and skills over time. The study has also revealed that education managers have different preferences for the type of professional development activities they participate in, and that they value different aspects of these activities. Some education managers prefer hands-on, practical training sessions, while others prefer workshops and conferences that provide opportunities for networking and collaboration. This highlights the importance of offering a variety of professional development options to education managers, to ensure that they can find activities that meet their needs and preferences.

The study aimed to explore the knowledge, skills, and attitudes of education managers, and to identify the ways in which education managers can effectively address the challenges facing the education management profession. The findings of this study have important implications for education managers, policy-makers, and researchers. In answering RQ1, the study found that the main challenges facing education management include limited resources, conflicting stakeholder interests, and increasing accountability pressures. To address these challenges effectively, education managers need to be strategic and innovative in their approach to decision-making, and to develop strong partnerships with other stakeholders in the educational system.

RQ2 highlights the key qualities and skills necessary for effective education management, including strong leadership skills, an understanding of student learning and development, and the ability to promote a positive school culture and climate. To develop and strengthen these skills, education managers need to engage in continuous professional development and seek feedback from stakeholders. RQ3 highlights the importance of data analytics in education management, and the ways in which data analytics can inform decision-making and improve

educational outcomes. Education managers need to be proficient in using data analytics to track student progress and identify areas for improvement. RQ4 explores the impact of partnerships and collaborations on education management and student achievement. The study found that strong partnerships between education managers, teachers, and other stakeholders can lead to improved educational outcomes and a more effective educational system. Finally, RQ5 examines the role of strong leadership qualities in ensuring the success of educational systems. The study found that effective education leaders need to be visionary, knowledgeable, and able to effectively communicate their vision to stakeholders. They also need to be able to inspire and motivate their staff, and to create a culture of continuous improvement.

Overall, the findings of this study have important implications for education management, and highlight the need for education managers to be strategic, innovative, and proficient in their approach to decision-making. To be successful, education managers need to be knowledgeable about student learning and development, have strong leadership skills, and be able to use data analytics to inform decision-making and improve educational outcomes. Additionally, education managers need to develop strong partnerships with other stakeholders in the educational system, and exhibit strong leadership qualities to ensure the success of their educational systems.

Future research in this area should focus on exploring the implementation of these findings in real-world educational settings, and on developing evidence-based strategies for education management. In conclusion, this study has provided valuable insights into the knowledge, skills, and attitudes of education managers, and has highlighted the need for ongoing training and professional development for this important group of professionals. The findings of this study will be useful for education management organizations, universities, and other institutions that provide training and support for education managers, and will help to inform the development of new and effective training programs that meet the needs of education managers in the 21st century (Kazu, Kazu & Kuvvetli, 2022).

5. Acknowledge

References

Aarkrog, V., & Wahlgren, B. (2022). Goal orientation and decision-making in education. *Vocations and Learning, 15*(1), 71-86. doi:https://doi.org/10.1007/s12186-021-09278-0

Abate, S. G., & Adamu, A. Y. (2022). Stakeholders' participation in adult education programme development in Ethiopia. *International journal of lifelong education, 41*(3), 257-276. doi:https://doi.org/10.1080/02601370.2022.2052990

Aslan, S. K., Yalçın, B., Göktepe, N., Türkmen, E., Canbolat, S., Bakoğlu, N., & Serbest, Ş. (2022). Effects of demographic, occupational, and practice environment variables on organizational silence among nurse managers. *International Nursing Review, 69*(2), 132-138. doi:https://doi.org/10.1111/inr.12712

Boff, D. S., & Zulianelo, I. (2021). Desafios na gestão escolar: narrativas de diretores e coordenadores pedagógicos de escolas públicas. *Revista on line de Política e Gestão Educacional, 25*(3), 2163-2177. doi:https://doi.org/10.22633/rpge.v25i3.14249

Boveda, M., & Weinberg, A. E. (2022). Centering racialized educators in collaborative teacher education: The development of the intersectionally conscious collaboration protocol. *Teacher Education and Special Education, 45*(1), 8-26. doi:https://doi.org/10.1177/08884064211062874

Bronwen, L., Farmer, F., Levitan, J., Kisber, L. B., Rosenberg, A., Maccannell, E., . . . Starr, L. (2022). Exploring the limits of 21st century educational change discourses. *Discourse: Studies in the Cultural Politics of Education*, 1-13. doi:https://doi.org/10.1080/01596306.2022.2043830

Camarena, L., & Fusi, F. (2022). Always connected: Technology use increases technostress among public managers. *The American Review of Public Administration, 52*(2), 154-168. doi:https://doi.org/10.1177/02750740211050387

Da-Hong, L., Hong-Yan, L., Wei, L., Guo, J. J., & En-Zhong, L. (2020). Application of flipped classroom based on the Rain Classroom in the teaching of computer-aided landscape design. *Computer Applications in Engineering Education, 28*(2), 357-366. doi:https://doi.org/10.1002/cae.22198

Even- Zahav, A., Widder, M., & Hazzan, O. (2022). From teacher professional development to teacher personal-professional growth: the case of expert STEM teachers. *Teacher Development, 26*(3), 299-316. doi:https://doi.org/10.1080/13664530.2022.2052947

García-Martínez, I., Montenegro-Rueda, M., Molina-Fernández, E., & Fernández-Batanero, J. M. (2021). Mapping teacher collaboration for school success. *Effectiveness and School Improvement, 32*(4), 631-649. doi:https://doi.org/10.1080/09243453.2021.1925700

Hallinger, P., & Kulophas, D. (2020). The evolving knowledge base on leadership and teacher professional learning: a bibliometric analysis of the literature,1960-2018. *Professional development in education, 46*(4), 521-540. doi:https://doi.org/10.1080/19415257.2019.1623287

Ifenthaler, D. (2022). A systems perspective on data and analytics for distance education. *Distance Education, 43*(2), 333-341. doi:https://doi.org/10.1080/01587919.2022.2064828

Kazu, İ. Y., Kazu H. & Kuvvetli, M. (2022). Evaluation of studies on language skill areas of digital game-based foreign. *Social Sceince Development Journal, 7*(29), 117-127. http://dx.doi.org/10.31567/ssd.546?

Knapp, M. (2020). Between legal requirements and local traditions in school improvement reform in Austria: School leaders as gap managers. *European Journal of Education, 55*(2), 169-182. doi:https://doi.org/10.1111/ejed.12390

Leithwood, K., Harris, A., & Hopkins, D. (2008). Seven strong claims about successful school leadership. *School Leadership and Management, 28*(1), 27-42. doi:https://doi.org/10.1080/13632434.2019.1596077

Loukis Euripidis , N., Manolis, M., & Niki, K. (2020). Artificial intelligence-based public sector data analytics for economic crisis policymaking. *Transforming Government- People Process and Policy, 14*(4), 639-662. doi:https://doi.org/10.1108/TG-11-2019-0113

Mayger, L. K., & Hochbein, C. D. (2020). Growing Connected: Relational Trust and Social Capital in Community Schools. *Journal of Education for Students Placed at Risk, 26*(3), 210-235. doi:https://doi.org/10.1080/10824669.2020.1824676

Mayo, I. C., García-Martín, S., Rodríguez, R. C., & Grande-de-Prado, M. (2021). Calidad y liderazgo sostenible. *International Journal of Educational Leadership and Management, 9*(1), 76-91. doi:https://doi.org/10.17583/ijelm.2021.5361

Özdemir, N., Gün, F., & Yirmibeş, A. (2021). Learning–centred leadership and student achievement: Understanding the mediating effect of the teacher professional community and parental involvement. *Educational Management Administration & Leadership, 0*(0), 1-21. doi:https://doi.org/10.1177/17411432211034167

Riadi, R. M. (2021). School Financial Management based on Accountability and Transparency. *International Journal of Early Childhood Special Education, 13*(2), 1-14. doi:https://doi.org/10.9756/INT-JECSE/V13I2.211091

Shirley, D. (2020). Vectors of educational change: An introduction to the twentieth anniversary issue of the Journal of Educational Change. *Journal of Educational Change, 21*, 385-392. doi:https://doi.org/10.1007/s10833-020-09399-8

Tashakkori, A., Teddlie, C., & Teddlie, C. B. (1998). *Mixed methodology: Combining qualitative and quantitative approaches (Vol. 46)*. California: SAGE.

Wilcox, K. (2021). Interrogating the discourses of 'teaching excellence'in higher education. *European Educational Research Journal, 20*(1), 42-58. doi:https://doi.org/10.1177/1474904120944783

Xiaodong, J., Chong, Q., Chenhao, H., & Shu, Y. (2021, 07 01). Energy-efficient resource management for OFDM modulated bidirectional relaying with quality-of-service constraint. *Eurasip Journal on Wireless Communications and Networking, 1*(136), 1-19. doi:https://doi.org/10.1186/s13638-021-02012-3

Yu, S. A. (2021). Application of computer information technology in college physical education using fuzzy evaluation theory. *Computational Intelligence, 37*(3), 1181-1198. doi:https://doi.org/10.1111/coin.12352