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RESEARCH

Interests	Educational Data Mining · Artificial Intelligence · Machine Learning · Intelligent Networks · Blockchain
Areas	Computer Science Applications · Artificial Intelligence · Information Systems · Computer Networks and Communications · Education · Developmental and Educational Psychology

RESEARCH SUMMARY

35	535	11	11	2.59	30%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 35 publications listed below, 2017–2026. Field-weighted impact is the mean over the 27 works scored for it; 1.00 is the world average for works of the same field, type and year. 8 of the 27 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 29

1. **Delali Kwasi Dake** (2026). Cluster Pattern Analysis of Students Stress using Machine Learning Algorithms with Feature Engineering. *International Journal of Modern Education and Computer Science*. https://doi.org/10.5815/ijmecs.2026.02.09
2. Elijah Ofori, **Delali Kwasi Dake** (2026). Deep Embedded Clustering and Statistical Validation for Student Modality Profiling. *Interdisciplinary Journal of Information Knowledge and Management*. https://doi.org/10.28945/5724
3. **Delali Kwasi Dake**, Elijah Ofori, Selorm Adablanu (2026). From Education to Employment: A Deep Learning Approach to Understanding Job Market Trends in Africa. *International Journal of Information and Education Technology*. https://doi.org/10.18178/ijiet.2026.16.4.2571
4. **Delali Kwasi Dake**, Fred Yao Gbagbo (2025). ChatGPT's benefits, acceptance, and ethical challenges for teaching and learning in key African countries: a systematic review of literature from 2022 to 2024. *Discover Education*. https://doi.org/10.1007/s44217-025-01074-5
5. **Delali Kwasi Dake** (2025). Cloud computing in education: A review of architecture, applications, and integration challenges. *International Journal of Computer Applications*. https://ijca.phdfocus.com/archives/volume186/issue66/cloud-computing-in-education-a-review-of-architecture-applications-and-integration-challenges/
6. Esther Gyimah, **Delali Kwasi Dake** (2025). Deep Learning and Statistical Models to Analyse Online Misinformation and Hate Speech Impact on African Youth. *Journal of Information Systems and Informatics*.
7. Elijah Ofori, **Delali Kwasi Dake** (2025). Explainable artificial intelligence in LSTM transformer models for student performance analysis. *Discover Computing*. https://doi.org/10.1007/s10791-025-09814-9
8. **Delali Kwasi Dake** (2025). Information technology graduates employability prediction model in a low-income country using tree-based machine learning classifiers. *Discover Global Society*. https://doi.org/10.1007/s44282-025-00304-3
9. **Delali Kwasi Dake** (2025). Post-pandemic Recovery: investigating Factors that Affected Students' Online Engagement during the Pandemic in Ghana–A Machine Learning Approach. *International Journal of*

Computer Applications. https://scholar.google.com/scholar?cluster=15329517613840021116&hl=en&oi=scholarr

10. **Delali Kwasi Dake**, Esther Gyimah (2025). Using Machine Learning Algorithms to Cluster and Analyse Students' Acceptance of Mobile Learning Management Systems. *Informing Science The International Journal of an Emerging Transdiscipline*. https://doi.org/10.28945/5596
11. **Delali Kwasi Dake** (2023). Artificial Intelligence Self-Organising (AI-SON) Frameworks for 5G-Enabled Networks: A Review. *Journal of Computer and Communications*. https://doi.org/10.4236/jcc.2023.114003
12. **Delali Kwasi Dake**, Edward Nwiah, GS Klogo (2023). DiscoverArtificial Intelligence. *Discover*. https://www.researchgate.net/profile/Delali_Dake/publication/372984303_Instructor-assisted_question_classification_system_using_machine_learning_algorithms_with_N-gram_and_weighting_schemes/links/64d2657db684851d3d92923e/Instructor-assisted-question-classification-system-using-machine-learning-algorithms-with-N-gram-and-weighting-schemes.pdf
13. Henry Techie-Menson, Daniel Danso Essel, **Delali Kwasi Dake**, Alexander Asante, Stephen Opoku Oppong (2023). Educational Data Processing Centers; Determinants of Security Innovations at Higher Education Institutions. *Journal of Education and Practice*. https://doi.org/10.7176/jep/14-7-02
14. **Delali Kwasi Dake**, Edward Nwiah, Griffith Selorm Klogo, Wisdom Xornam Ativi (2023). Instructor-assisted question classification system using machine learning algorithms with N-gram and weighting schemes. *Discover Artificial Intelligence*. https://doi.org/10.1007/s44163-023-00073-5
15. **Delali Kwasi Dake**, Godwin Kudjo Bada, Abraham Ekow Dadzie (2023). Internet of Things (IoT) Applications in Education: Benefits and Implementation Challenges in Ghanaian Tertiary Institutions. *Journal of Information Technology Education Research*. https://doi.org/10.28945/5183
16. **Delali Kwasi Dake** (2023). Online Recruitment Fraud Detection: A Machine Learning-based Model for Ghanaian Job Websites. *International Journal of Computer Applications*. https://doi.org/10.5120/ijca2023922639
17. **Delali Kwasi Dake** (2023). Reinforcement Learning in Education 4.0: Open Applications and Deployment Challenges. *International Journal of Computer Science and Information Technology*. https://doi.org/10.5121/ijcsit.2023.15304
18. **Delali Kwasi Dake**, Esther Gyimah, Charles Buabeng-Andoh (2023). University Students Behaviour Modelling Using the K-Prototype Clustering Algorithm. *Mathematical Problems in Engineering*. https://doi.org/10.1155/2023/5507814
19. **Delali Kwasi Dake**, Godwin Kudjo Bada (2023). Unveiling Learner Emotions: Sentiment Analysis of Moodle-Based Online Assessments Using Machine Learning. *Journal of Information Technology Education Innovations in Practice*. https://doi.org/10.28945/5174
20. **Delali Kwasi Dake**, GK Bada, H Techie-Menson (2023). Using Machine Learning to Cluster and Predict the Learning Pattern of University Students. *Telematique*. https://scholar.google.com/scholar?cluster=13284793747850905118&hl=en&oi=scholarr
21. **Delali Kwasi Dake** (2022). An exploratory study on the relationship between completion of Erikson's fourth psychosocial stage and assurance of salvation. *Journal of Spirituality in Mental Health*.
22. **Delali Kwasi Dake**, Davidson Kwamivi Aidam, Verite Ken Agbotse (2022). Internet of Things and Online Learning: Intelligent Systems beyond Covid-19. *International Journal of Computer Applications*. https://doi.org/10.5120/ijca2022921879
23. **Delali Kwasi Dake**, Charles Buabeng-Andoh (2022). Using Machine Learning Techniques to Predict Learner Drop-out Rate in Higher Educational Institutions. *Mobile Information Systems*. https://doi.org/10.1155/2022/2670562
24. **Delali Kwasi Dake**, Esther Gyimah (2022). Using sentiment analysis to evaluate qualitative students' responses. *Education and Information Technologies*. https://doi.org/10.1007/s10639-022-11349-1
25. **Delali Kwasi Dake**, James Dzisi Gadze, Griffith Selorm Klogo, Henry Nunoo-Mensah (2021). Multi-Agent Reinforcement Learning Framework in SDN-IoT for Transient Load Detection and Prevention. *Technologies*. https://doi.org/10.3390/technologies9030044

26. **Delali Kwasi Dake**, James Dzisi Gadze, Griffith Selorm Klogo, Henry Nunoo-Mensah (2021). Traffic Engineering in Software-defined Networks using Reinforcement Learning: A Review. *International Journal of Advanced Computer Science and Applications*. https://doi.org/10.14569/ijacsa.2021.0120541
27. **Delali Kwasi Dake**, Ben Adjei (2019). 5G Enabled Technologies for Smart Education. *International Journal of Advanced Computer Science and Applications*. https://doi.org/10.14569/ijacsa.2019.0101228
28. Esther Gyimah, **Delali Kwasi Dake**, Mathias Agbeko (2018). The Role of Computer Games in the Learning of Programming among Tertiary Students in Ghana. *African Journal Of Applied Research*.
29. **Delali Kwasi Dake**, E Gyimah (2017). Students grades predictor using Naïve Bayes classifiers-A case study of university of education. *International Journal of Innovative Research in Science, Engineering and Technology*. https://scholar.google.com/scholar?cluster=18382163490981474008&hl=en&oi=scholarr

Conference papers 6

1. **Delali Kwasi Dake**, Esther Gyimah, Godwin Kudjo Bada (2025). A Deep Learning Model to Predict Information Technology Students Learning Style in Adaptive Learning Systems. https://doi.org/10.1109/icsadl65848.2025.10933094
2. **Delali Kwasi Dake**, Gifty Nana Yaa Rockson, Godwin Kudjo Bada (2025). Ensemble Machine Learning Classifier with Multi-Feature Selection Mechanism to Predict Disability Category for Mental Health Disorders. https://doi.org/10.1109/smartblock4health64843.2025.11189558
3. Claudia Szabo, Nickolas Falkner, Munienge Mbodila, Judithe Sheard, Tony Clear, **Delali Kwasi Dake**, Mabberi Enock, Omowumi Ogunyemi, Oluwakemi Ola, Bimlesh Wadhwa (2025). Ethical and Societal Impacts of Generative AI in Higher Computing Education: An ACM Task Force Working Group to Develop a Landscape Analysis - Perspectives from the Global Souths and Guidelines for CS1/CS2/CS3. https://doi.org/10.1145/3815397.3815770
4. **Delali Kwasi Dake**, James Dzisi Gadze, Griffith Selorm Klogo (2021). DDoS and Flash Event Detection in Higher Bandwidth SDN-IoT using Multiagent Reinforcement Learning. https://doi.org/10.1109/iccma53594.2021.00011
5. **Delali Kwasi Dake**, Daniel Danso Essel, Justice Edem Agbodaze (2021). Using Machine Learning to Predict Students' Academic Performance During Covid-19. https://doi.org/10.1109/iccma53594.2021.00010
6. Esther Gyimah, **Delali Kwasi Dake** (2019). Using Decision Tree Classification Algorithm to Predict Learner Typologies for Project-Based Learning. https://doi.org/10.1109/iccma.2019.00029