Dr. Daniel Danso Essel

Department of Information and Communication Technology
University of Education, Winneba

ORCID 0009-0007-7325-0923 · Google Scholar scholar.google.com/citations?user=xf8NJuQAAAAJ&hl=en · Profile uew.peerford.com/staff/f03345fa-4aa7-448b-a643-77ce92ced2f6

RESEARCH

Interests	ICTs in Education · Educational Software Development · Mobile Learning
Areas	Information Systems · Artificial Intelligence · Education · Information Systems and Management · Sociology and Political Science · Computer Science Applications

RESEARCH SUMMARY

19	283	5	4	4.20	21%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 19 publications listed below, 2014–2026. Field-weighted impact is the mean over the 14 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 14 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Webmaster
Web Services Section, DICTS, University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 17

1. John K. E. Edumadze, Gladys Ewurama Edumadze, Richard Arkaifie, Alexander Kissiedu, Benedict Atta Biney, **Daniel G. Essel**, Alex Osei-Gyasi, Evans Ankomah, Okyere-Darko Addai, Dagbe E. K. Amenumey (2026). Beyond self-perception: Evaluating digital literacy across multimedia formats using the atomic digital literacy framework and ICAS benchmarks. *Journal of Digital Educational Technology*. https://doi.org/10.29333/jdet/18536
2. Stephen Opoku Oppong, **Daniel Danso Essel**, Benjamin Ghansah (2026). Deep Learning-based Software Vulnerability Severity Prediction Using Natural Language Processing. *Asian Journal of Research in Computer Science*. https://www.researchgate.net/profile/Benjamin-Ghansah-2/publication/410782487_Deep_Learning-based_Software_Vulnerability_Severity_Prediction_Using_Natural_Language_Processing/links/6a6b66aca4d94b202f22c990/Deep-Learning-based-Software-Vulnerability-Severity-Prediction-Using-Natural-Language-Processing.pdf
3. **Daniel Danso Essel** (2026). Mobile Learning for Programming Education: A Case Study of SoloLearn and Self-Directed Learning Skills. *Advances in Mobile Learning Educational Research*. https://doi.org/10.25082/amler.2026.02.003
4. Stephen Kwashie Amemasor, Stephen Opoku Oppong, Benjamin Ghansah, Ben-Bright Benuwa, **Daniel Danso Essel** (2025). A systematic review on the impact of teacher professional development on digital instructional integration and teaching practices. *Frontiers in Education*. https://doi.org/10.3389/feduc.2025.1541031
5. Eleanor Afua Onyame, Frank Sam, Abdul-Gafaar Sayibu, Victor Fiifi Addison, **Daniel Godwin Essel** (2025). Assessing the Feasibility of Implementing a Learning Management System (LMS) in Senior High Schools (SHS) in the Cape Coast Metropolis: Infrastructure, Readiness, and Challenges. *Journal of Information and Technology*. https://doi.org/10.70619/vol5iss11pp1-23-633

6. **Daniel Essel** (2025). Mobile Technologies in Higher Education: An Empirical Study of Faculty Perspectives. *The Journal of Educators Online*. https://doi.org/10.9743/jeo.2025.22.4.4
7. **Daniel Danso Essel**, Harrison I. Atagana (2024). Exploring the impact of device ownership, usage patterns, and technology proficiency on mobile learning among higher education students: a multi-faceted study. *Educational Technology Quarterly*. https://doi.org/10.55056/etq.793
8. **Daniel Danso Essel**, Henry Techie-Menson, Stephen Opoku Oppong, Augustine Alakuu (2023). Digitalising the Clearance Processes of Higher Education Institutions through the Design and Implementation of an Online Clearance System. *International Journal of Scientific Research and Management (IJSRM)*. https://doi.org/10.18535/ijsrm/v11i07.as01
9. 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
10. Benjamin Ghansah, Ben-Bright Benuwa, **Daniel Danso Essel**, Andriana Pokuaa Sarkodie, Mathias Agbeko (2022). A Review of Non-Linear Kalman Filtering for Target Tracking. *International Journal of Data Analytics*. https://doi.org/10.4018/ijda.294864
11. Stephen Opoku Oppong, Benjamin Ghansah, Evans Baidoo, Wilson Osafo Apeanti, **Daniel Danso Essel** (2022). Experimental Study of Swarm Migration Algorithms on Stochastic and Global Optimisation Problem. *International Journal of Distributed Artificial Intelligence*. https://doi.org/10.4018/ijdai.296389
12. Henry Techie-Menson, **Daniel Danso Essel**, Godwin Kudjo Bada, Selorm Adablanu (2022). Fast-tracking Healthcare Services for Students through the Design of a Hospital Information System. https://doi.org/10.7176/jep/13-23-02
13. WO Apeanti, **D Essel** (2021). Learning computer programming using project-based collaborative learning: Students' experiences, challenges and outcomes. *International Journal for Innovation Education and Research*. https://www.academia.edu/download/68520895/PB_3278.pdf
14. **Daniel Danso Essel**, Ben-Bright Benuwa, Benjamin Ghansah (2021). Video Semantic Analysis. *International Journal of Computer Vision and Image Processing*. https://doi.org/10.4018/ijcvip.2021040101
15. **DD Essel**, BB Benuwa, Benjamin Ghansah (2021). Video semantic analysis: the sparsity based locality-sensitive discriminative dictionary learning factor. *International Journal of Computer Vision and Image Processing (IJCVIP)*. https://www.igi-global.com/article/video-semantic-analysis/275815
16. **Daniel Danso Essel**, Osafo Apeanti Wilson (2016). Factors Affecting University Students' Use of Moodle. *International Journal of Information and Communication Technology Education*. https://doi.org/10.4018/ijicte.2017010102
17. WO Apeanti, **Essel Daniel Danso** (2014). Students' use of social media in higher education in Ghana. *Innovative Journal*. https://www.academia.edu/download/34920087/IEEE_Format_-_Students_Use_of_Social_Media.pdf

Conference papers 1

1. 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

Reports 1

1. WO Apeanti, **DD Essel** (2015). Introduction to ICT. *Kumasi: Fresh Publications*. https://scholar.google.com/scholar?cluster=5793531692802333178&hl=en&oi=scholarr