Dr. John K.E. Edumadze

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RESEARCH

Interests	ICT in Education · E-learning · Blended MOOC · Digital Literacy
Areas	Education · Computer Science Applications · Information Systems · Artificial Intelligence · Communication · Computer Networks and Communications

RESEARCH SUMMARY

25	291	10	11	2.67	40%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 25 publications listed below, 2009–2026. Field-weighted impact is the mean over the 10 works scored for it; 1.00 is the world average for works of the same field, type and year. 4 of the 10 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Computer Science Education PhD Candidate 2019–present
School of Education, University of KwaZulu-Natal, Durban, South Africa

Head, IT Training and Support 2016–2022
ICT Centre, University of Cape Coast, Cape Coast, Ghana

Head, IT Infrastructural Services 2003–2016
Computer Centre, University of Cape Coast, Cape Coast, Ghana

Lecturer 2003–2011
Department of Computer Science & Information Technology, University of Cape Coast, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

MSc Computer Application Technology 1999–2002
College of Computer and Information Engineering, Hohai University, Nanjing, China

Post Graduate Diploma in Education (PGDE) 1996–2007
Centre for Teacher Professional Development, University of Cape Coast, Cape Coast, Ghana

BSc Computer Science 1991–1994
Department of Computer Science, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

PUBLICATIONS

Journal articles 22

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. **John KE Edumadze** (2026). Exploring the relationship between student engagement and use of blended MOOCs. *Educational Technology & Society*. https://www.jstor.org/stable/48872687

3. Brandford Bervell, **John K. E. Edumadze**, Dickson Okoree Mireku, Eric Mensah, Victoria Agyare Appiah, Kwame Ofori (2025). The quest for Bible quotation searching and reading: modelling undergraduate Christian students' intentions towards the use of e-Sword (electronic Bible). *Cogent Education*. https://doi.org/10.1080/2331186x.2025.2541083

4. B Bervell, Paul Nyagorme, **John KE Edumadze** (2024). Distance education in Ghana: assessing students' readiness for information communication integration. *West African Journal of Open and Flexible Learning*. https://wajofel.org/index.php/wajofel/article/view/112

5. **John Kwame Eduafo Edumadze**, Desmond Welsey Govender (2024). The community of inquiry as a tool for measuring student engagement in blended massive open online courses (MOOCs): a case study of university students in a developing country. *Smart Learning Environments*. https://doi.org/10.1186/s40561-024-00306-9

6. **John K. E. Edumadze**, Alexander N. T. Kissiedu, Stephen E. Mensah, Benedict A. Biney (2022). Assessing Mobile Device Security Awareness Among First-Year Undergraduate Students in Ghana: The Case of The University of Cape Coast. *European Journal of Education and Pedagogy*. https://doi.org/10.24018/ejedu.2022.3.6.503

7. **John K.E. Edumadze**, Samuel Otchere Darko, Stephen Mensah, David Bentil, Gladys E. Edumadze (2022). SWOT Analysis of Blended MOOC from Ghanaian University Instructors' Perspectives. *Shanlax International Journal of Arts Science and Humanities*. https://doi.org/10.34293/sijash.v10i1.4793

8. **J Edumadze** (2022). Social media and higher education: what are the motivation for social media use by university faculty members in Ghana. *Shanlax International Journal of Arts, Science and Humanities*. https://scholar.google.com/scholar?cluster=9293908365468154230&hl=en&oi=scholarr

9. **John Edumadze** (2022). Students' acceptance and perceptions of perceived usefulness of mobile learning devices in higher educational institutions. *Online Journal of Communication and Media Technologies*. https://www.ojcmt.net/article/students-acceptance-and-perceptions-of-perceived-usefulness-of-mobile-learning-devices-in-higher-11539

10. **John Kwame Eduafo Edumadze**, Kwaku Anhwere Barfi, Valentina Arkorful, Nyinaku Odoi Baffour Jnr (2022). Undergraduate student's perception of using video conferencing tools under lockdown amidst COVID-19 pandemic in Ghana. *Interactive Learning Environments*. https://doi.org/10.1080/10494820.2021.2018618

11. Albert Arthur Qua-Enoo, Brandford Bervell, Paul Nyagorme, Valentina Arkorful, **John K. E. Edumadze** (2021). Information Technology Integration Perception on Ghanaian Distance Higher Education: A Comparative Analysis. *International Journal of Learning Teaching and Educational Research*. https://doi.org/10.26803/ijlter.20.2.17

12. B Bervell, Valentina Arkorful, **JK Edumadze** (2020). Computer-assisted instruction in the teaching and learning of history: A systematic review in Africa. *Computer*. https://www.academia.edu/download/75799023/14932_Bonsu_2020_E1_R.pdf

13. **Gladys Ewurama Edumadze** (2020). Investigating the factors that attract and retain international students at the University of Cape Coast (UCC). *Journal of Educational Development and Practice (JED-P)*. https://journal.ucc.edu.gh/index.php/jed-p/article/download/1649/789

14. **JK Edumadze** (2019). ASSESSING BUSINESS STUDENTS'EXPERIENCES WITH E-LEARNING IN A GHANIAN UNIVERSITY. *The Online Journal of Distance Education and e-Learning*. http://www.tojsat.net/journals/tojdel/volumes/tojdel-volume07-i02.pdf#page=8

15. **John KE Edumadze** (2019). Students' perception of mobile learning at University of Cape Coast, Ghana. *The Online Journal of Distance Education and e-Learning*. http://www.tojdel.net/journals/tojdel/volumes/tojdel-volume07-i03.pdf#page=84

16. **JK Edumadze**, G Essilfie, AA Osei-Gyasi (2017). E-learning at the University of Cape Coast, Ghana; Are our distance education students technologically ready. *The Online Journal of Distance Education and e-Learning*. http://www.tojdel.net/journals/tojdel/volumes/tojdel-volume05-i01.pdf#page=54

17. **JK Edumadze**, Kwaku Anhwere Barfi (2017). Perception of senior high school students towards e-learning platform in some selected senior high schools in Cape Coast Metropolis. *The Online Journal of Distance Education and e-Learning*. http://tojdel.net/journals/tojdel/articles/v05i03/v05i03-04.pdf

18. **John Kwame Eduafo Edumadze** (2016). The integration of Information and Communication Technology for teaching and learning at Ghanaian Colleges of Education: ICT Tutors' Perceptions. *African Journal of Teacher Education*. https://doi.org/10.21083/ajote.v4i2.3095

19. **John Kwame Euafo Edumadze**, TA Ossei-Anto (2014). Evaluating the awareness and perceptions of lecturers in using e-learning tools for teaching in University of Cape Coast. *International Journal Of Computing Academic Research (Ijcar)*. https://meacse.org/ijcar/archives/37.pdf

20. **John K. E. Edumadze**, Eric Y. Tenkorang, Frederick A. Armah, Isaac Luginaah, Gladys E. Edumadze (2013). Electronic Waste is a Mess: Awareness and Proenvironmental Behavior Among University Students in Ghana. *Applied Environmental Education & Communication*. https://doi.org/10.1080/1533015x.2013.876250

21. **JKE Edumadze**, Anthony Akwesi Owusu (2013). Use of information and communication technology for teaching and learning in Ghanaian universities: Case of University of Cape Coast. *International Journal of Computing Academic Research*. https://www.academia.edu/download/62285124/EDUMADZE___OWUSU20200305-41501-4y8lg6.pdf

22. ANNOR-FREMPONG FESTUS, **JKE Edumadze** (2009). The use of the internet among agricultural students at University of Cape Coast in Ghana. *Culture, Science and Sustainable Development in Africa*. https://www.academia.edu/download/35329690/02-The_use_of_the_Internet_among_Agricultural_Students_at_University_of_Cape_Coast_in_Ghana.pdf

Book chapters 2

1. **John K. E. Edumadze**, Desmond W. Govender, Gladys E. Edumadze, Ernest K. Bentum, Moses Setiga (2026). Expanding Access to Higher Education Through Blended MOOCs. *Cases on Universal Access to Education Through Open and Distance E-Learning*. https://doi.org/10.4018/979-8-3373-5057-8.ch008

2. G Mills, **John Edumadze** (2012). Relevant Computing Curricula in Sub-Saharan Africa. *International Conference on e-Infrastructure and e-Services for Developing Countries*. https://doi.org/10.1007/978-3-642-41178-6_25

Reports 1

1. **John Edumadze** (2009). GENDER DIFFERENCES IN COMPUTER ACCESS AND LITERACY–AMONG AGRICULTURAL STUDENTS AT UNIVERSITY OF CAPE COAST IN GHANA. *University of Cape Coast*. https://ir.ucc.edu.gh/items/a7c9ccd7-7050-470c-8a77-4d95ea42dc45