Dr. Ben-Bright Benuwa

Department of Information and Communication Technology
University of Education, Winneba

ORCID 0000-0002-3085-706X · Homepage uew.edu.gh · Google Scholar scholar.google.com/citations?user=v5JV8p4AAAAJ&hl=en · Profile uew.peerford.com/staff/6a546dbf-0382-46c6-a887-cc7d06ca6d27

RESEARCH

Interests: Artificial intelligence · Machine Learning · Sensor Networks & Face recognition · Sparse Representation · University Administration

Areas: Artificial Intelligence · Computer Vision and Pattern Recognition · Computational Mechanics · Education · Information Systems · Gender Studies

RESEARCH SUMMARY

38	463	8	8	2.75	17%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 38 publications listed below, 2014–2025. Field-weighted impact is the mean over the 30 works scored for it; 1.00 is the world average for works of the same field, type and year. 5 of the 30 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

LECTURER/RESEARCH COORDINATOR 2020–present
ICT EDUCATION, University of Education Winneba, Winneba, Ghana

Head of Department 2007–2020
School of Computer Science, Data Link Institute, TEMA, Ghana

EDUCATION AND QUALIFICATIONS

PhD - Computer Applied Technology 2015–2018
School of Computer Science and Communication Engineering, Jiangsu University, Zhenjiang, China

PUBLICATIONS

Journal articles 32

1. Selorm Adablanu, Benjamin Ghansah, **Ben-Bright Benuwa**, Stephen Opoku Oppong (2025). A Thorough Review of AI Developments in Education: Historical Progress, Current Applications, and Future Directions. *Journal of Artificial Intelligence in Education*. https://doi.org/10.29303/jaie.v1i2.706
2. 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
3. Emmanuel Rock Nyarko Hanson, Adam Rahman, Ralitsa Diana Debrah, **Ben-Bright Benuwa**, Clara Afranie (2025). Designing Moral Narratives through 3D Animation: Youth Identity and Cultural Reflections in Ghana's Pressure Music Video. *Journal of Humanities and Social Sciences Studies*. https://doi.org/10.32996/jhsss.2025.7.5.8
4. **Ben Bright Benuwa** (2025). International Journal of Risk and Contingency Management (IJRCM). *Benefits*. https://www.igi-global.com/journal/international-journal...management/53135
5. Stephen Kwashie Amemasor, Stephen Opoku Oppong, Benjamin Ghansah, **Ben-Bright Benuwa**, Mathias

Agbeko (2025). The influence of digital professional development and professional learning communities in the relationship between school digital preparedness and digital instructional integration. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0328883

6. Davidson Kwamivi Aidam, **Ben-Bright Benuwa**, Stephen Opoku Oppong, Edward Nwiah (2024). Sentiment and emotion analysis using pretrained deep learning models. *Journal of Data Information and Management*. https://doi.org/10.1007/s42488-024-00129-w
7. Obeng Owusu-Boateng, Issifu Yidana, Anas Seidu Salifu, **Ben-Bright Benuwa**, Gilbert Naa Emmideme, Khalid Abdul-Mumin, Ben Kudus Yussif (2023). College Tutors' Barriers and Challenges with their usage of Online Instructional Delivery Resources during Covid-19 Pandemic, Ghana. *JOURNAL OF DIGITAL LEARNING AND DISTANCE EDUCATION*. https://doi.org/10.56778/jdlde.v2i2.130
8. 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
9. Benjamin Ghansah, **Ben-Bright Benuwa** (2022). Impact of Technology on University Leadership Effectiveness Among Academic Staff of Some Selected Private Universities in Ghana. *International Journal of ICT Research in Africa and the Middle East*. https://doi.org/10.4018/ijictrame.290834
10. **Ben-Bright Benuwa** (2022). Virtual Kernel Discriminative Dictionary Learning With Weighted KNN for Video Analysis. *International Journal of Data Analytics*. https://doi.org/10.4018/ijda.297521
11. Benjamin Ghansah, **Ben-Bright Benuwa**, Augustine Monney (2021). A Discriminative Locality-Sensitive Dictionary Learning With Kernel Weighted KNN Classification for Video Semantic Concepts Analysis. *International Journal of Intelligent Information Technologies*. https://doi.org/10.4018/ijiit.2021010105
12. **Ben-Bright Benuwa**, Benjamin Ghansah (2021). Locality-Sensitive Non-Linear Kalman Filter for Target Tracking. *International Journal of Distributed Artificial Intelligence*. https://doi.org/10.4018/ijdai.2021010102
13. 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
14. 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
15. Augustine Monney, Yongzhao Zhan, Zhen Jiang, **Ben-Bright Benuwa** (2020). A multi-kernel method of measuring adaptive similarity for spectral clustering. *Expert Systems with Applications*. https://doi.org/10.1016/j.eswa.2020.113570
16. Augustine Monney, Yongzhao Zhan, Hongjie Jia, **Ben-Bright Benuwa** (2020). Co-Regularized Discriminative Spectral Clustering With Adaptive Similarity Measure in Dual-Kernel Space. *IEEE Access*. https://doi.org/10.1109/access.2020.2977195
17. **Ben-Bright Benuwa**, Benjamin Ghansah, Ernest K. Ansah (2020). Deep locality-sensitive discriminative dictionary learning for semantic video analysis. *Software Practice and Experience*. https://doi.org/10.1002/spe.2783
18. Serwaa Serwaa Andoh, Benjamin Ghansah, Joy Nana Okogun-Odompley, **Ben-Bright Benuwa** (2020). The Effect of Job Satisfaction on Turnover Intentions. *International Journal of Risk and Contingency Management*. https://doi.org/10.4018/ijrcm.2021010103
19. Juliana Serwaa Andoh, Benjamin Ghansah, Joy Nana Okogun-Odompley, **Ben-Bright Benuwa** (2019). Impact of Workplace Diversity on Employee Performance. *International Journal of R&D Innovation Strategy*. https://doi.org/10.4018/ijrdis.2019070103
20. **Ben-Bright Benuwa**, Benjamin Ghansah, Ernest K. Ansah (2019). Kernel based locality – Sensitive discriminative sparse representation for face recognition. *Scientific African*. https://doi.org/10.1016/j.sciaf.2019.e00249
21. Pokuaa Andriana Sarkodie, Zhen Kai Zhang, **Ben Bright Benuwa**, Benjamin Ghansah, Ernest Ansah (2018). A Survey of Advanced Marine Communication and Navigation Technologies: Developments and Strategies. *International journal of engineering research in Africa*. https://doi.org/10.4028/

www.scientific.net/jera.34.102

22. **Ben-Bright Benuwa**, Yongzhao Zhan, JunQi Liu, Jianping Gou, Benjamin Ghansah, Ernest K. Ansah (2018). Group sparse based locality – sensitive dictionary learning for video semantic analysis. *Multimedia Tools and Applications*. https://doi.org/10.1007/s11042-018-6417-3

23. **Ben-Bright Benuwa**, Yongzhao Zhan, Benjamin Ghansah, Ernest K. Ansah, Andriana Sarkodie (2018). Sparsity Based Locality-Sensitive Discriminative Dictionary Learning for Video Semantic Analysis. *Mathematical Problems in Engineering*. Retracted. https://doi.org/10.1155/2018/9312563

24. **Ben-Bright Benuwa**, Yongzhao Zhan, Augustine Monney, Benjamin Ghansah, Ernest K. Ansah (2018). Video semantic analysis based kernel locality-sensitive discriminative sparse representation. *Expert Systems with Applications*. https://doi.org/10.1016/j.eswa.2018.11.016

25. **Ben-Bright Benuwa** (2017). Robust face detection using convolutional neural network. *International Journal of Computer Applications*. https://www.academia.edu/download/67044697/ijca2017914855.pdf

26. **Ben Bright Benuwa**, Benjamin Ghansah, Dickson Keddy Wornyo, Sefakor Awurama Adabunu (2016). A Comprehensive Review of Particle Swarm Optimization. *International journal of engineering research in Africa*. https://doi.org/10.4028/www.scientific.net/jera.23.141

27. **BB Benuwa**, Benjamin Ghansah (2016). A review of deep machine learning. *International Journal of Engineering Research in Africa*. https://www.scientific.net/jera.24.124

28. Benjamin Ghansah, **Ben Bright Benuwa**, Ernest Kwame Ansah, Nathaniel Ekow Ghansah, Cwebile Magama, Elias Nii Noye Ocquaye (2016). Factors that Influence Students' Decision to Choose a Particular University: A Conjoint Analysis. *International journal of engineering research in Africa*. https://doi.org/10.4028/www.scientific.net/jera.27.147

29. **Ben-Bright Benuwa**, Benjamin Ghansah, Dickson Keddy (2016). Review of Complex Networks. *International Journal of Computer Applications*. https://doi.org/10.5120/ijca2016909624

30. Benjamin Ghansah, **BB Benuwa** (2015). Impact of Pet Bottles Disposal and Management Mechanisms in Selected Urban Cities in Ghana. *Journal of Multidisciplinary Engineering Science and Technology*. https://www.academia.edu/download/105097595/IMPACT_20OF_20PET_20BOTTLES_20DISPOSALS_20AND_20MANAGEMENT_20MECHANISMS_20IN_20SELECTED_20URBAN_20CITIES_20OF_20GHANA.pdf

31. Nathaniel Ekow Ghansah, Benjamin Ghansah, **Ben Bright Benuwa**, Elias Nii Noye Ocquaye (2015). Using Social Media as a Marketing Tool in Tertiary Institutions: A Case Study of Data Link University, Ghana. *International journal of engineering research in Africa*. https://doi.org/10.4028/www.scientific.net/jera.20.218

32. B Ghansah, **BB Benuwa** (2014). Fingerprint Based Approach for Resource Selection in Federated Research. *International Journal of Advanced Research in Computer Science & Technology (IJARCST)*. https://www.academia.edu/download/81318759/benjamin.pdf

Book chapters 2

1. Mohammed Muniru Sa-ad, Wilson Osafo-Apeanti, Obeng Owusu-Boateng, Salifu Anas Seidu, Mohammed Majeed, **Ben Bright-Benuwa** (2025). Automated administrative tasks in education. https://doi.org/10.70593/978-93-49307-53-7_3

2. Juliana Serwaa Andoh, Benjamin Ghansah, Joy Nana Okogun-Odompley, **Ben-Bright Benuwa** (2021). Impact of Workplace Diversity on Employee Performance. *IGI Global eBooks*. https://doi.org/10.4018/978-1-6684-2405-6.ch054

Conference papers 2

1. Eric Korku Agbemafle, **Ben-Bright Benuwa**, Benjamin Ghansah, Stephen Opoku Oppong, Kojo Agyekum Asiama (2024). Enhanced Technology Acceptance Model for Evaluating Adoption of Cloud Computing in Colleges of Education in Ghana. https://doi.org/10.1109/smartblock4africa61928.2024.10779531

2. Godwin Elo, Benjamin Ghansah, Stephen Opoku Oppong, **Ben-Bright Benuwa**, Winston Kwamina Essibu, Einstein Kow Essibu (2024). Predicting Voting Patterns Using Generative Adversarial Networks and Stack Star Classifier. https://doi.org/10.1109/smartblock4africa61928.2024.10779561

Reports 1

1. **B Benuwa** (2019). Sparsity Based Locality-Sensitive Discriminative Dictionary Learning for Video Semantic Analysis (Retraction of Vol 2018, art no 9312563, 2018). *MATHEMATICAL PROBLEMS IN ENGINEERING*. https://scholar.google.com/scholar?cluster=10127585470887509268&hl=en&oi=scholarr

Theses 1

1. **BEN-BRIGHT BENUWA** (2018). Research on Video Semantic Concept Analysis Based on Group Sparse Representation. *江苏大学*. https://scholar.google.com/scholar?cluster=16553425541327162936&hl=en&oi=scholarr