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RESEARCH

Interests	Computer Science · Information Systems · Learning Technologies
Areas	Computer Science Applications · Management Science and Operations Research · Artificial Intelligence · Education · Information Systems · Communication

RESEARCH SUMMARY

29	386	10	12	1.75	40%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 29 publications listed below, 2009–2026. Field-weighted impact is the mean over the 20 works scored for it; 1.00 is the world average for works of the same field, type and year. 8 of the 20 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 27

1. Yaw Afriyie, Allasan Fafali Akos Katherina, **Najim Ussiph** (2026). Robust Skin Lesion Classification through Enhanced Minority Class Recognition Using Hybrid EfficientNet–Capsule Networks. *Intelligence-Based Medicine*. https://doi.org/10.1016/j.ibmed.2026.100487
2. Maxwell Dorgbefu Jnr, Yaw Marfo Missah, **Najim Ussiph**, Gaddafi Abdul-Salaam, Oliver Kornyo, Joseph Mawulorm Mensah (2025). Hybrid framework of differential privacy and secure multi-party computation for privacy-preserving entity resolution. *Computers & Security*. https://doi.org/10.1016/j.cose.2025.104603
3. Ebenezer Eghan, **Najim Ussiph**, Obed Appiah (2023). Adoption of Blended Learning in Ghanaian Senior High Schools: A Case Study in a Less Endowed School. *International Journal of Modern Education and Computer Science*. https://doi.org/10.5815/ijmecs.2023.05.06
4. Fuseini Inusah, Yaw Marfo Missah, **Ussiph Najim**, Frimpong Twum (2023). Agile neural expert system for managing basic education. *Intelligent Systems with Applications*. https://doi.org/10.1016/j.iswa.2023.200178
5. Yaw Marfo Missah, Fuseini Inusah, **Ussiph Najim**, Frimpong Twum (2023). Evaluating Agile Neural Educational System for Effective Resource Management. *SAGE Open*. https://doi.org/10.1177/21582440231214843
6. Fuseini Inusah, Yaw Marfo Missah, **Ussiph Najim**, Frimpong Twum (2023). Integrating expert system in managing basic education: A survey in Ghana. *International Journal of Information Management Data Insights*. https://doi.org/10.1016/j.jjimei.2023.100166
7. Frimpong Twum, Emmanuel Mawuli Lagoh, Yaw Missah, **Najim Ussiph**, Emmanuel Ahene (2022). Cold Boot Attack on Encrypted Containers for Forensic Investigations. *KSII Transactions on Internet and Information Systems*. https://doi.org/10.3837/tiis.2022.09.013
8. YM Missah, **U Najim**, F Twum (2022). Data mining and visualisation of basic educational resources for quality education. *International Journal of Engineering Trends and Technology*. https://www.researchgate.net/profile/Fuseini-Inusah/publication/

366627117_Data_Mining_and_Visualisation_of_Basic_Educational_Resources_for_Quality_Education/links/63abf9f7c3c99660ebad7532/Data-Mining-and-Visualisation-of-Basic-Educational-Resources-for-Quality-Education.pdf

9. Frimpong Twum, Vincent Amankona, Yaw Marfo Missah, **Ussiph Najim**, Michael Opoku (2022). Implementation of a Data Protection Model dubbed Harricent_RSECC. *International Journal of Advanced Computer Science and Applications*. https://doi.org/10.14569/ijacsa.2022.0130517
10. Frimpong Twum, Yaw Marfo Missah, Stephen Opoku Oppong, **Najim Ussiph** (2022). Textural Analysis for Medicinal Plants Identification Using Log Gabor Filters. *IEEE Access*. https://doi.org/10.1109/access.2022.3196788
11. Fuseini Inusah, Yaw Marfo Missah, **Najim Ussiph**, Frimpong Twum (2021). Expert System in Enhancing Efficiency in Basic Educational Management using Data Mining Techniques. *International Journal of Advanced Computer Science and Applications*. https://doi.org/10.14569/ijacsa.2021.0121148
12. Nana Kofi Ahoi Appiah-Badu, Yaw Marfo Missah, Leonard K. Amekudzi, **Najim Ussiph**, Twum Frimpong, Emmanuel Ahene (2021). Rainfall Prediction Using Machine Learning Algorithms for the Various Ecological Zones of Ghana. *IEEE Access*. https://doi.org/10.1109/access.2021.3139312
13. **N Ussiph** (2020). A hybrid arima-LSTM model for stock price prediction. *International Journal of Computer Engineering and Information Technology*. https://search.proquest.com/openview/288bcbf49b187672d89c8a93865cc9d0/1?pq-origsite=gscholar&cbl=2044551
14. Peter Appiahene, Yaw Marfo Missah, **Ussiph Najim** (2020). Predicting Bank Operational Efficiency Using Machine Learning Algorithm: Comparative Study of Decision Tree, Random Forest, and Neural Networks. *Advances in Fuzzy Systems*. https://doi.org/10.1155/2020/8581202
15. **N Ussiph** (2019). Application of blended learning at the SHS level–Impact on students' performance. *International Journal of Computer Science and Information Security*. https://scholar.google.com/scholar?cluster=16810865331132201321&hl=en&oi=scholarr
16. Peter Appiahene, Yaw Marfo Missah, **Ussiph Najim** (2019). Evaluation of information technology impact on bank's performance: The Ghanaian experience. *International Journal of Engineering Business Management*. https://doi.org/10.1177/1847979019835337
17. Faiza Umar, **Najim Ussiph** (2018). Appraisal of the Classification Technique in Data Mining of Student Performance using J48 Decision Tree, K-Nearest Neighbor and Multilayer Perceptron Algorithms. *International Journal of Computer Applications*. https://doi.org/10.5120/ijca2018916751
18. Christiana Vormawor, **Ussiph Najim**, Nuku Atta, Baffour Owusu (2018). Development of E-Learning Content and Delivery for Self-Learning Environment Action Case Study at Martyrs of Uganda RCJHS. *International Journal of Computer Applications*. https://doi.org/10.5120/ijca2018917870
19. Peter Appiahene, **Najim Ussiph**, Yaw M Missah (2018). Information Technology Impact on Productivity. *International Journal of Information Communication Technologies and Human Development*. https://doi.org/10.4018/ijicthd.2018070104
20. **N Ussiph** (2018). The impact of using 3D interactive animation tool in teaching computer programming at the senior high school level. *Circulation Comput. Sci.* https://www.researchgate.net/profile/Hamidu-Seidu/publication/324175962_The_Impact_of_using_3D_Interactive_Animation_Tool_in_Teaching_Computer_Programming_at_the_Senior_High_School_Level/links/5ad0dfe0a6fdcc29357aeb23/The-Impact-of-using-3D-Interactive-Animation-Tool-in-Teaching-Computer-Programming-at-the-Senior-High-School-Level.pdf?_sg%5B0%5D=started_experiment_milestone&origin=journalDetail
21. Azaabi Cletus, **Ussiph Najim** (2018). Towards Securing Organizational Data against Social Engineering Attacks. *International Journal of Computer Applications*. https://doi.org/10.5120/ijca2018916649
22. Doris Dore-Natteh, **Najim Ussiph** (2017). Adaptation and Effects of Social Media in Teaching and Learning at the Second Cycle Institution Level in Ghana. *International Journal of Computer Applications*. https://doi.org/10.5120/ijca2017913953
23. Asaah Kofi, **Najim Ussiph** (2017). Optimizing Access to Primary Health Care Services in Rural Communities using Geographical Information System (GIS): A Case of Atwima Mponua District of Ghana.

International Journal of Computer Applications. https://doi.org/10.5120/ijca2017913728

24. **N Ussiph** (2017). The Case for VLE in Life-long Learning, Capacity Building and Poverty Reduction. *Circulation in Computer Science*. https://www.researchgate.net/profile/Najim-Ussiph/publication/316440715_The_Case_for_VLE_in_Life-long_Learning_Capacity_Building_and_Poverty_Reduction/links/59073869a6fdccd580d5958b/The-Case-for-VLE-in-Life-long-Learning-Capacity-Building-and-Poverty-Reduction.pdf?_sg%5B0%5D=started_experiment_milestone&origin=journalDetail&_rtd=e30%3D
25. **Najim Ussiph** (2015). The Potential of VLE in Providing Access to Quality Education in Rural Community Schools – Myth or Reality. *International Journal of Computer Applications*. https://doi.org/10.5120/ijca2015907154
26. **U Najim** (2014). An application of queuing theory to ATM service optimization: a case study. *Mathematical Theory and Modeling*. https://www.academia.edu/download/34227828/An_Application_of_Queuing_Theory_to_ATM_Service_Optimization.pdf
27. **N Ussiph** (2012). Using a virtual learning environment to support teaching and learning and to bridge the digital divide between Urban and Rural Communities in Ghana: An Action Case Study. *Information Systems*. https://scholar.google.com/scholar?cluster=13043862590621646836&hl=en&oi=scholarr

Conference papers 2

1. **N Ussiph** (2009). A Case For Techology-mediated Learning: Method Versus Performance. *EdMedia*. https://www.learntechlib.org/p/31547/
2. **N Ussiph** (2009). TAKING A SECOND LOOK AT POOR ACADEMIC PERFORMANCE WITH COMPUTER ASSISTED LEARNING. *INTED2009 Proceedings*. https://library.iated.org/view/USSIPH2009TAK