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RESEARCH

Interests	Deep Learning · Computer Vision · Medical Image Processing
Areas	Epidemiology · Artificial Intelligence · Education · Computer Science Applications · Information Systems · Neurology

RESEARCH SUMMARY

28	73	4	3	2.57	27%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 28 publications listed below, 2022–2026. Field-weighted impact is the mean over the 15 works scored for it; 1.00 is the world average for works of the same field, type and year. 4 of the 15 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 23

1. **Selorm Adablanu** (2026). Deep Learning for Predicting Genome-Editing Outcomes: Efficiency, Specificity, and Repair Pathways. *The Genome Editing Frontier*.
2. Tania Sharma, Anushi Singh, Suman Vahist, Rabindra Kumar Jha, Mohamad Mokdad, Masoud Rahimi Domakani, **Selorm Adablanu**, Ali Assad Watfa (2026). Effectiveness of Video-Assisted Teaching on Substance Abuse Knowledge among Adolescents. *FMDB transactions on sustainable techno learning.*. https://doi.org/10.69888/ftstl.2026.000747
3. Chief Skido Achulo, **Selorm Adablanu**, Daniel Asuku Quaye (2026). Engaging 21st Century Learners and Differentiating Instruction with Multimedia: An Empirical Case Study of the University of Education, Winneba, Ghana. *International Journal of Computer Applications*. https://doi.org/10.5120/ijca2026926453
4. 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
5. **Selorm Adablanu**, Utpal Barman, Dulumani Das, Tuward Jade Dweh (2026). Transforming Skin Cancer Detection With AI-Based Convolutional and Transformer Models. *iRadiology*. https://doi.org/10.1002/ird3.70058
6. **Selorm Adablanu**, Utpal Barman, Dulumani Das (2025). 15 Years of optimizers in medical deep learning: A systematic review. *Neuroscience Informatics*. https://doi.org/10.1016/j.neuri.2025.100249
7. **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
8. **Selorm Adablanu**, Utpal Barman, Dulumani Das (2025). A novel hybrid adaptive transformer framework with multihead self attention for stroke detection. *Discover Neuroscience*. https://doi.org/10.1186/s13064-025-00224-7
9. **Selorm Adablanu**, Utpal Barman, Dulumani Das (2025). Advancing deep learning for automated stroke

detection: a review. *Brain Hemorrhages*. https://doi.org/10.1016/j.hest.2025.07.002

10. **Selorm Adablanu** (2025). Brain Hemorrhages. *PRISMA*. https://www.researchgate.net/profile/Selorm-Adablanu/publication/393698780_Advancing_deep_learning_for_automated_stroke_detection_a_review/links/68764048ae516743559d033c/Advancing-deep-learning-for-automated-stroke-detection-a-review.pdf
11. Patricia Koryo Matey, Owusu Appiah Rubbin, **Selorm Adablanu** (2025). The Internet of Things in Education: Adoption Patterns and Learning Outcomes from a Ghanaian Case Study. *International Journal of Computer Applications*. https://doi.org/10.5120/ijca2025925811
12. **Selorm Adablanu** (2024). AI-Powered Diagnostics and Imaging Analysis: Revolutionizing Medical Decision- Making. *EasyChair*. https://scholar.google.com/scholar?cluster=8511666751555384026&hl=en&oi=scholarr
13. **Selorm Adablanu**, Michael Offei, Atta Boateng (2024). Adopting sustainable mobile learning: Investigating long-term integration at UEW with a focus on infrastructure, resources, and institutional support. *Advances in Mobile Learning Educational Research*. https://doi.org/10.25082/amler.2024.02.011
14. **Selorm Adablanu** (2024). Adversarial Machine Learning for Robust Intrusion Detection Systems. *EasyChair*. https://www.researchgate.net/profile/Selorm-Adablanu/publication/382463727_Adversarial_Machine_Learning_for_Robust_Intrusion_Detection_Systems/links/669fdfc28be3067b4b14ffcb/Adversarial-Machine-Learning-for-Robust-Intrusion-Detection-Systems.pdf
15. **Selorm Adablanu** (2024). Blockchain-based Security Solutions for the Internet of Things (IoT). *EasyChair*. https://www.researchgate.net/profile/Selorm-Adablanu/publication/382293561_Blockchain-based_Security_Solutions_for_the_Internet_of_Things_IoT/links/6697a1d58dca9f441b830b4b/Blockchain-based-Security-Solutions-for-the-Internet-of-Things-IoT.pdf
16. **Selorm Adablanu** (2024). EasyChair Preprint Adversarial Machine Learning for Cybersecurity Defense. *EasyChair*.
17. **Selorm Adablanu** (2024). Explainable Neural Networks for Interpretable Cybersecurity Decisions. *EasyChair*. https://www.researchgate.net/profile/Selorm-Adablanu/publication/382298671_Explainable_Neural_Networks_for_Interpretable_Cybersecurity_Decisions/links/6697993702e9686cd107ccbd/Explainable-Neural-Networks-for-Interpretable-Cybersecurity-Decisions.pdf
18. **Selorm Adablanu** (2024). Homomorphic Encryption for Secure Cloud Computing. *EasyChair*. https://scholar.google.com/scholar?cluster=2243247593132076239&hl=en&oi=scholarr
19. **Selorm Adablanu** (2024). Reinforcement Learning for Adaptive Cybersecurity Policy Optimization. *EasyChair*. https://www.researchgate.net/profile/Selorm-Adablanu/publication/382297591_Reinforcement_Learning_for_Adaptive_Cybersecurity_Policy_Optimization/links/66979ae28dca9f441b830a0b/Reinforcement-Learning-for-Adaptive-Cybersecurity-Policy-Optimization.pdf
20. **Selorm Adablanu** (2024). The Intersection of Artificial Intelligence and Cybersecurity. *EasyChair*. https://www.researchgate.net/profile/Selorm-Adablanu/publication/382462182_The_Intersection_of_Artificial_Intelligence_and_Cybersecurity/links/669fe38227b00e0ca43dd337/The-Intersection-of-Artificial-Intelligence-and-Cybersecurity.pdf
21. Atarah Michael A. Nsoh, Toateba Joseph, **Selorm Adablanu** (2023). ARTIFICIAL INTELLIGENCE IN EDUCATION: TRENDS, OPPORTUNITIES AND PITFALLS FOR INSTITUTES OF HIGHER EDUCATION IN GHANA. *International Journal of Computer Science and Mobile Computing*. https://doi.org/10.47760/ijcsmc.2023.v12i02.004
22. 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
23. **Selorm Adablanu** (2022). Review on Automatic Smart Car Parking System. *International Journal of Computer Science and Mobile Computing*. https://doi.org/10.47760/ijcsmc.2022.v11i08.006

Book chapters 2

1. **Selorm Adablanu** (2026). Feature Extraction and Selection Methods Outperform Machine Learning and Deep Learning Techniques. *Feature Selection and Feature Extraction on Omics Data*. https://doi.org/10.1201/9781003591658-7
2. **Adablanu** (2026). ICT Tools And Infrastructure: Foundations, Classifications and Applications in Agribusiness. *Foundations of ICT for Agribusiness: Digital Tools, Technologies and Transformations in Modern Agriculture*.

Conference papers 2

1. **Selorm Adablanu**, Utpal Barman, Dulumani Das (2026). A Hybrid 1D-CNN and Transformer-Based Deep Learning Framework for Stroke Detection Using Brain CT Scans. *Procedia Computer Science*. https://doi.org/10.1016/j.procs.2026.06.129
2. **Selorm Adablanu**, Utpal Barman, Dulumani Das (2026). Comparative Efficacy of Focal and Binary Cross-Entropy Loss in Handling Class Imbalance for Stroke CT Classification. https://doi.org/10.1109/icaect68478.2026.11426059

Reports 1

1. **S Adablanu** (2024). Multimodal Deep Learning for Integrated Cybersecurity Analytics (No. 14011). *EasyChair*.