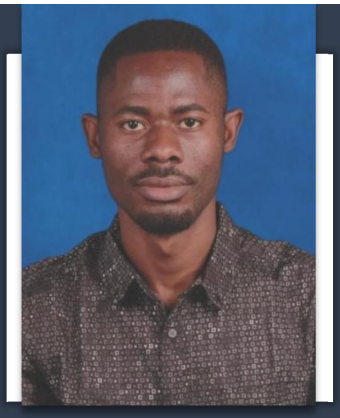
Kwabena Adu



Personal Information

Date of birth:	27-August-1985
Place of Birth:	Abuakwa - Kumasi
Gender:	Male
Marital Status:	Married
Nationality:	Ghanaian
Religion:	Christian
Language:	English, Twi, Chinese

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Research Interest

Artificial Intelligence: Image Processing, Computer Vision, Deep Learning

Educational Background

2018 to date: Ph.D.: Software Engineering
University of Electronic Science and Technology of China, China

2016 to 2018: Master of Science: Software Engineering
University of Electronic Science and Technology of China, China
Thesis: Design of Memristive Neural Network for Breast Cancer Classification

2011 to 2015: Bachelor of Science: Information Technology
University of Education Winneba - Kumasi - Campus, Ghana
Project: Collage Announcement System.

09- 2002 to 07-2005: SSSCE
Osei Tutu Senior Secondary School, Atwima-Akropong Ghana

Work Experience

09- 2015 to 08-2016: ICT Teacher
Banko D/A Junior High School
Ghana National Service

09-2012 to 09-2016: ICT Teacher
Hopfa Educational Center, Kumasi, Ashanti

Volunteer Experience/ Service

2016: Donation
Donated computer systems and accessories to the Banko D/A J.H.S to enhance effective teaching of the ICT subject.

Positions Held

2018 to date: Peer - Reviewer
IEEE Transaction on Neural Network and Learning Systems
IEEE Access, Journal of Intelligence and Fuzzy Systems, IET Computer Vision
Publon account:
https://publons.com/researcher/3227485/kwabena-adu/

2014 - 2015: Member of SRC Audit Board
University of Education Winneba, Kumasi-Campus

I.T Officer: Calvary Glory Chapel, Abuakwa-Kumasi

Tuesday Cell Leader: Calvary Glory Chapel, Abuakwa-Kumasi

Publications

- **K. Adu**, Y. Yu and J. Cai "Dilated Capsule Networks for Brain Tumor Type Classification Via MRI Segmented Tumor Region" 2019 IEEE International Conference on Robotics and Biomimetics (ROBIO), Dali, China, 2019, pp.942-947. doi: 10.1109/ROBIO49542.2019.8961610
- Y. Yu, **K. Adu**, N. Tashi, P. Anokye, X. Wang and M. A. Ayizdoe "RMAF: Relu-Memristor-Like Activation Function for Deep Learning," in *IEEE Access*, vol. 8, pp. 72727-72741, 2020, doi: 10.1109/ACCESS.2020.2987829.
- **Adu, K**, Yu, Y, Cai, J, Owusu-Agyemang, K, Twumasi, BA, Wang, X. DHS-CapsNet: Dual horizontal squash capsule networks for lung and colon cancer classification from whole slide histopathological images. *Int J Imaging Syst Technol*. 2021; 1– 18. https://doi.org/10.1002/ima.22569
- **Adu K**, Yu Y, Cai J, Dela Tattrah V, Adu Ansere J, Tashi N. S-CCCapsule: Pneumonia detection in chest X-ray images using skip-connected convolutions and capsule neural network. Journal of Intelligent & Fuzzy Systems.(Preprint):1-25.
- **Adu K**, Yu Y, Cai J, Mensah PK, Owusu-Agyemang K. MLAF-CapsNet: Multi-lane atrous feature fusion capsule network with contrast limited adaptive histogram equalization for brain tumor classification from MRI images. Journal of Intelligent & Fuzzy Systems.(Preprint):1-8.
- **Adu, K**, Yu, Y, Cai, J, Isaac Asare, K, Quahin Jennifer. The Influence of the Activation Function in a Capsule Network for Brain Tumor Type Classification. *Int J Imaging Syst Technol*. 2021;. https://doi.org/10.1002/ima.22638
- Abra Ayidzoe M, Yu Y, Mensah PK, Cai J, **Kwabena A**, Tashi N. Feature amplification capsule network for complex images. Journal of Intelligent & Fuzzy Systems.(Preprint):1-4.
- Ayidzoe MA, Yu Y, Mensah PK, Cai J, **Adu K**, Tang Y. Gabor capsule network with preprocessing blocks for the recognition of complex images. Machine Vision and Applications. 2021 Jul;32(4):1-6.
- Wang Xiangxiang, Yu Yongbin, Jingye Cai Nijing Yang **Adu K.** "Multiple Mismatched Synchronization for Coupled Memristive Neural Networks with Topology-based Probability Impulsive Mechanism on Time Scales". IEEE Transactions on Cybernetics **(Accepted)**
- Wang Xiangxiang, Yu Yongbin, Jingye Cai Shouming Zhong, Nijing Yang, Kaibo Shi, **Adu K.** , Nyima Tashi**.** Relaxed Exponential Stabilization for Coupled Memristive Neural Networks with Connection Fault and Multiple Delays via Optimized Elastic Event-triggered Mechanism. IEEE Transactions on Neural Networks and Learning Systems **(Accepted with Minor Revision)**

Research Grants / Funding

- National Natural Science Foundation of China, Grant/Award Number: 61550110248;
- Sichuan Science and Technology Program, Grant/Award Number: 2019YFG0190
- Research on Sino-Tibetan multisource information acquisition, fusion, data mining and its application (Grant No. H04W170186)

Software

Python

Tableau

Microsoft Office Suite

Corel Draw

Interests

- Sports
- Reading
- Coding

Certifications

- Certificate for Membership with SRC Audit Board, Uew
- Certificate for Introduction in C#
- Certificate for Leadership Skills
- Certificate of IEEE Membership

Referees

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