CURRICULUM VITAE

ING. PROF. BENJAMIN ASUBAM WEYORI, PhD, PE-GhIE

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Reseachgate: https://www.researchgate.net/profile/Benjamin-Weyori/publications

SUMMARY OF QUALIFICATION

With over a decade of experience teaching Computer Science, Computer Engineering, and Electrical Engineering, Professor Benjamin Asubam Weyori excels in curriculum development for both graduate and undergraduate programmes. His expertise encompasses designing practical syllabuses, creating engaging lesson plans, and implementing effective assessment strategies that promote student success. His research spans more than ten years in interdisciplinary areas such as Machine Learning, Optical Fibre Technology, Quantum Computing, Digital Logic Design, Digital Signal Processing, Computer Vision, and Wireless Communication, resulting in over 60 publications in peer-reviewed journals and conference proceedings. He is also highly experienced in modern teaching methodologies, having contributed to projects like EEISHEA, PEBL, and C-CoDE, which have improved educational practices. Additionally, he brings over ten years of proficiency in resolving complex computational problems using programming languages such as C++, Python, Java, and MATLAB.

EDUCATION

Kwame Nkrumah University of Science and Technology, Ghana. **2012 –2016**
Programme of Study: **PhD Computer Engineering**

Kwame Nkrumah University of Science and Technology, Ghana **2008 – 2011**
Programme of Study: **MPhil Computer Engineering**

University for Development Studies, Tamale, Ghana **2002 – 2006**
Programme of Study: **BSc Mathematical Sciences (Computer Science Option)**

PROFESSIONAL CERTIFICATION

Certified Kubernetes Administrator (CKA) Feb. 2024 – Feb. 2027

AWS Certified DevOps Engineer – Professional Oct. 2023 - Oct. 2026

Project Management Professional (**PMP®**) Oct. 2023 - Oct. 2026

AWS Certified Cloud Practitioner. Oct. 2023 – Oct. 2026

AWS Certified Solution Architect – Associate Oct. 2023 – Oct. 2026

OTHER TRAINING CERTIFICATION

Optical Foundation, Washington DC, USA 12th – 16th June 2022
Certificate in Innovation

Optical Society of America Foundation, Washington DC, USA 10th – 16th January 2020
Certificate in Optical Communication

Land Satellite Sensing App. Center (LASAC), Beijing, China 15th Aug. – 11th Sept. 2019
Certificate in High Precision Mapping Technology Remote Sensing Images and Its Application

Oracle Academy, Accra, Ghana 10th – 26th February 2016
Certificate in Java Programming

EMPLOYMENT HISTORY/PROFESSIONAL EXPERIENCE

- **Associate Professor**, Department of Comp. and Electrical Eng. **Jan. 2023 – Present**
  - ✓ I used the Problem-Based Learning (PBL) teaching method to deliver high-quality teaching and learning to students (both undergraduate and postgraduate), which increased students' performance by 50%.
  - ✓ I contributed to the design, development and evaluation of courses and programmes through liaison with colleagues in other institutions, which produced a very standard curriculum, increasing students' knowledge in computing by 80%
  - ✓ I designed an efficient communication channel between the faculty and the students, improving the working relationship between the faculty and the students and increasing student satisfaction.
  - ✓ I assisted with staff selection for recruitment and interviews to recruit the best and most qualified faculty for the Department, which brought new energy to the smooth running of the Department.
  - ✓ I led the establishment of a strong externally funded research program that won some projects for the Department, increasing the Department's internally generated funds by 50%.

- ✓ I mentored and gave research direction to junior colleagues in the faculty, increasing their research productivity and output by 70% and leading to excellent postgraduate supervision.

❖ **Senior Lecturer**, Department of Computer Sci. and Info. **Jan 2019 – Dec 2022**
University of Energy and Natural Resources, Sunyani, Ghana

- ✓ I used the Problem-Based Learning (PBL) teaching method to deliver high-quality teaching and learning to students (both undergraduate and postgraduate), which increased students' performance by 50%.
- ✓ I contributed to the design, development and evaluation of courses and programmes through liaison with colleagues in other institutions, which produced a very standard curriculum, increasing students' knowledge in computing by 80%
- ✓ I contributed actively to developing initiatives which produced new and best practices in teaching and learning and promoted them across the faculty and institution, thereby increasing students' knowledge by 60%
- ✓ I have conducted research works that have contributed massively to making an impact on society through knowledge transfer, benefiting and improving the lives of many
- ✓ As Head of the Department, I liaised closely with teaching, technical and administrative staff to ensure a quality teaching and learning environment, which increased students' confidence by 30%.
- ✓ As Head of Department, I formulated and implemented new strategies with lecturers in the Department support, improving students' practical lessons that increased students' practical knowledge and real-world problem-solving skills by 40%.
- ✓ I successfully supervised 4 PhDs, 10 MPhil students, and over 100 undergraduates, leading to their successful graduation and increasing confidence in our undergraduate and postgraduate programmes by 40%.

❖ **Lecturer**, Department of Computer Science and Info. **Jan 2013 – Dec 2018**
University of Energy and Natural Resources, Sunyani, Ghana

- ✓ I engaged in scholarship as required to support teaching activities, which resulted in a 30% continual update and increase in students' theoretical and practical knowledge, thereby promoting the University.
- ✓ I engaged in collaborative partnerships with some universities, which contributed to the development of university policies in aiding the University's work in influencing leading-edge practice in quality assurance.
- ✓ I mentored colleagues with less experience and advised on personal development that stirred up their desire for teaching and increasing their research output by 20%

- ✓ I selected appropriate assessment instruments and criteria, assessed the work and progress of students by reference to the criteria and provided constructive feedback to students
- ✓ I ensured that course design and delivery complied with the quality standards and regulations of the University, increasing the quality of students we produce.

❖ **Lecturer**, Faculty of Information Comm. Sci. and Tech. **01/09/2011 – 31/12/ 2012**
Catholic University College of Ghana, Fiapre, Sunyani, Ghana

- ✓ I developed course material that can provide efficient course delivery to students, thereby increasing the knowledge base of students as well as increasing their level of satisfaction.
- ✓ I collaborated with other senior academics to improve teaching methods and expand my knowledge base, thereby increasing my research and teaching productivity and student satisfaction by 20%.
- ✓ I attended and participated in meetings, conferences, and other events in and outside of the institution to increase my knowledge of state-of-the-art computing and technology for career advancement.
- ✓ I participated in training opportunities and initiatives at the institution to increase my problem-solving skills and knowledge of real-world practical situations and how to resolve them.
- ✓ I provided support for students and other colleagues, resulting in an increase in 10% productivity and a 5% increase in student and staff satisfaction with the system.

❖ **Senior Research Assistant**, Dept. of Computer Science **01/09/2007 – 30/08/2011**
University for Development Studies, Navrongo Campus, Navrongo, Ghana

- ✓ I provided guidance as required to support any students needing assistance with conducting research, which increased students' research knowledge by 80% and helped complete their thesis.
- ✓ I employed efficient management skills to manage my own research and administration activities, increasing my research productivity and output.
- ✓ I contribute to planning research projects in collaboration with faculty, using that as a medium of knowledge transfer and increasing staff and student research output.
- ✓ I engaged in continuous professional development, resulting in continual updates in knowledge and understanding in the field of study or specialism

and thereby increasing 10% development skills

SOFT SKILLS AND COMPETENCIES

- Proven track record of research outputs, normally of high international standing
- Proven track record of innovation in teaching and learning using PBL and SCL reflected in design, delivery and promotion of good professional practice
- Proven ability to deliver high-quality teaching
- Ability to engage students and staff, and motivate them to perform at their best
- Excellent problem-solving skills
- Knowledge of quality assurance and related issues at the University
- Excellent oral and written communication skills.

TECHNICAL SKILLS AND COMPETENCIES

S/No	Skill Title	Skill Level (Basic/Intermediate/Proficient)	Total Experience Years	Last Used Year
1.	Java Programming (Eclipse and NetBeans)	Proficient	6	2023
2.	C++ Programming	Proficient	8	2023
3.	Python Programming (Anacoda)	Intermediate	5	2021
4.	C Programming	Proficient	5	2020
5.	HTML, CSS and JavaScript	Intermediate	3	2023

- Solid understanding of Machine Learning Algorithms and Artificial Intelligence
- Strong background in any area of Computer Vision, Machine Learning, Quantum Computing and Optical Fibre Technology Research.

LEADERSHIP/ADMINISTRATIVE POSITIONS

- Head of Department, Department of Comp. and Electrical Eng. Aug. 2023 – Present
- Ag. Director, Centre for Distance Education and E-Learning Aug. 2021 – Jul 2023
- Head of Department, Department of Comp. Sci. and Info. Aug. 2019 – July 2021
- Ag. Head of Department, Dept of Comp. Sci. and Info. Aug. 2017– July 2019

- ❖ School Postgraduate Coordinator, School of Sciences Sept. 2015– July 2017

SERVICE TO COMMUNITY

- External Assessor of Dr Ben Beklisi Kwame Ayawli's Document for Promotion to the Rank of Senior Lecturer in the Department of Computer Science, Sunyani Technical University
- External Examiner for Graduate Thesis Examination, Computer Engineering Dept, KNUST, Kumasi, Ghana
- External Examiner for BTech Computer Science, Sunyani Technical University, Sunyani
- Reviewer – Institute of Electrical and Electronic Engineers (IEEE) Access
- Reviewer - Scientific African
- Reviewer - Computational Intelligence and Neuroscience
- Reviewer - International Journal of Numerical Modelling: Electronic Networks, Devices, and Fields
- Reviewer – Mathematics Journal
- Reviewer - Applied Artificial Intelligence Journal
- Reviewer - Journal of Sensors
- Reviewer – Open Computer Science
- Reviewer - Journal of Energy and Natural Resource Management (JENRM)

PROFESSIONAL MEMBERSHIP

- Professional Engineer, Ghana Institution of Engineering
- Member- Institute of Elect. and Electronics Engineers, Inc. -IEEE (Comp. Society)
- Member - Association for Computing Machinery (ACM)
- Member - Ghana Science Association (GSA)
- Member - International Association of Engineers (IAENG)
- Member - Optical Society of America (OSA)
- Member – University Teachers Association of Ghana (UTAG)

UNDERGRADUATE CURRICULUMS DEVELOPED

1. Bachelor of Science in Computer Science
2. Bachelor of Science in Information Technology
3. Diploma in Computer Science
4. Diploma in Information Technology

GRADUATE CURRICULUMS DEVELOPED

1. Master of Science in Computer Science
2. Master of Philosophy in Computer Science
3. Doctor of Philosophy in Computer Science
4. Master of Science in Computer Engineering
5. Master of Philosophy in Computer Engineering
6. Doctor of Philosophy in Computer Engineering
7. Master of Science in Electrical Engineering
8. Master of Philosophy in Electrical Engineering
9. Doctor of Philosophy in Electrical Engineering

PROJECTS/GRANTS

- I developed a proposal with some colleagues to win a five-year project on Enhancing Entrepreneurship, Innovation, and Sustainability in Higher Education in Africa (EEISHEA). This project is designed to reform Higher Education (HE) to ensure curricula highly relevant to Africa's contemporary economic and social needs, equipping graduates with skills and competencies for employability and self-employment. I am the local e-learning project lead for UENR.

- I developed a proposal with some colleagues to win a two-year project to create C-CoDE (Center of Competence in Digital Education). The key element of the project is that each institution will create a C-CoDE to enable them to design, produce, and integrate quality online courses into their curricula. It is one hundred thousand US dollars ($100,000). I am the Local Project Coordinator for C-CoDE UENR.

- I developed a proposal with some colleagues to win a two-year project of Partnership for Enhanced and Blended Learning (PEBL). This project seeks to enhance teaching quality, student outcomes, employability, and research output by addressing many East African universities' critical academic staff shortages. I am the Local Project Coordinator for PEBL, UENR.

CURRICULUM VITAE

PUBLICATION AND PRESENTATION

JOURNAL PUBLICATIONS

1. **Benjamin Asubam Weyori**, Samuel Tetteh (2024). An Improved After-Deployment of Quality Assurance Method Using Auto Sync and Chatbot Modules to Enhance Business Customer Relations, Tuijin Jishu/Journal of Propulsion Technology, Vol. 45, No. 03, pp. 3737 – 3752, https://doi.org/10.52783/tjjpt.v45.i03.7846
2. **Benjamin Asubam Weyori**, Solomon Antwi Buabeng, Lois Azupwah, Ben Beklisi Kwame Ayawli (2024). Discretize-Based Technique and Hybrid Machine Learning Approach for Medical Data Analysis and Mining, Tuijin Jishu/Journal of Propulsion Technology, Vol. 45, No. 03, pp. 3708 – 3723, https://doi.org/10.52783/tjjpt.v45.i03.7844
3. **Benjamin Asubam Weyori**, Abdul Karim Mohammed, Samuel Gbli Tetteh (2024). Systematic Review and Analysis of Cost-Saving Mechanisms, Challenges, And Best Practices in A Serverless Computing Environment, Tuijin Jishu/Journal of Propulsion Technology, Vol. 45, No. 03, pp. 3724 – 3736, https://doi.org/10.52783/tjjpt.v45.i03.7845
4. **Benjamin Asubam Weyori**, Ben Beklisi Kwame Ayawli, Samuel Tweneboah-Koduah (2024). Network Anomaly Detection in the Internet of Things (IoT), Tuijin Jishu/Journal of Propulsion Technology, Vol. 45, No. 03, pp. 3753 – 3769, https://doi.org/10.52783/tjjpt.v45.i03.7847
5. **Benjamin Asubam Weyori**, Gyimah Kopri, Ben Beklisi Kwame Ayawli, Samuel Gli Tetteh (2024). Harnessing Solar Energy: A Comprehensive Review of Solar Thermal Collector Applications, Tuijin Jishu/Journal of Propulsion Technology, Vol. 45, No. 03, pp. 3612 – 3637, https://doi.org/10.52783/tjjpt.v45.i03.7836

6. Michael Opoku, **Benjamin Asubam Weyori**, Felix Adekoya Adebayo, Kwabena Adu (2023). SFFT-CapsNet: Stacked Fast Fourier Transform for Retina Optical Coherence Tomography Image Classification using Capsule Network, International Journal of Advanced Computer Science and Applications, Vol. 14, Issue 9. https://www.proquest.com/openview/4474b00348fc6513e2ee83dea640702f/1?pq-origsite=gscholar&cbl=5444811

7. Michael Opoku, **Benjamin Asubam Weyori**, Adebayo Felix Adekoya, Kwabena Adu (2023). CLAHE-CapsNet: Efficient retina optical coherence tomography classification using capsule networks with contrast limited adaptive histogram equalization, Plos One, Vol 18, Issue 11. https://doi.org/10.1371/journal.pone.0288663

8. Azaabi Cletus, Alex Akwasi Opoku, **Benjamin Asubam Weyori** (2023). An Improved Malware Variant Detection Model Based on Homogeneous Static Hybrid Features and A Data Augmentation Technique, Journal of Theoretical and Applied Information Technology, Vol. 101, Issue 23. https://www.jatit.org/volumes/Vol101No23/3Vol101No23.pdf

9. Isaac Kofi Nti, Owusu Nyarko-Boateng, Adebayo Felix Adekoya, **Benjamin Asubam Weyori**, Henrietta Pokuaa Adjei (2023). Predicting diabetes using Cohen's Kappa blending ensemble learning, International Journal of Electronic Healthcare, Vol. 13, Issue 1. https://www.inderscienceonline.com/doi/abs/10.1504/IJEH.2023.128605

10. **Benjamin A Weyori**, Yaw Afriyie, Alex A Opoku (2023). Analyzing the Performances of Squash Functions in CapsNets on Complex Images, Cogent Engineering, Vol. 10, Issue 1. https://www.tandfonline.com/doi/full/10.1080/23311916.2023.2203890

11. Selasie Aformaley Brown, **Benjamin Asubam Weyori**, Adebayo Felix Adekoya, Patrick Kwaku Kudjo (2023). The significant impact of parameter tuning on blocking bug prediction, International Journal of System Assurance Engineering and Management, pp. 1-15. https://link.springer.com/article/10.1007/s13198-023-01975-4

12. Isaac Kofi Nti, Adebayo Felix Adekoya, **Benjamin Asubam Weyori**, Frimpong Keyeremeh (2023). A bibliometric analysis of technology in sustainable healthcare: Emerging trends and future directions, Decision Analytics Journal, Vol. 8, pp. 1-13. https://doi.org/10.1016/j.dajour.2023.100292

13. **Weyori, B.A**., Afriyie, Y., Opoku, A.A. (2023). Analyzing the performances of squash functions in capsnets on complex images, Cogent Engineering, 10(1), https://doi.org/10.1080/23311916.2023.2203890

14. Brown, S.A., **Weyori, B.A.**, Adekoya, A.F., Kudjo, P.K. (2023). The significant impact of parameter tuning on blocking bug prediction, International Journal of System Assurance Engineering and Management, https://doi.org/10.1007/s13198-023-01975-4

15. Afriyie, Y., **Weyori, B.A**., Opoku, A.A. (2023). A scaling up approach: a research agenda for medical imaging analysis with applications in deep learning, Journal of Experimental and Theoretical Artificial Intelligence. https://doi.org/10.1080/0952813X.2023.2165721

16. Nti, I.K., Nyarko-Boateng, O., Adekoya, A.F., **Weyori, B.A**., Adjei, H.P. (2023). Predicting diabetes using Cohen's Kappa blending ensemble learning, International Journal of Electronic Healthcare, 2023, 13(1), pp. 57–70. **DOI**: 10.1504/IJEH.2023.10052670

17. Anokye Acheampong Amponsah, Adebayo Felix Adekoya, **Benjamin Asubam Weyori** (2022). A Novel Fraud Detection and Prevention Method for Healthcare Claim Processing using Machine Learning and Blockchain Technology, Decision Analytics Journal, Volume 4. https://doi.org/10.1016/j.dajour.2022.100122

18. Anokye Acheampong Amponsah, Adebayo Felix Adekoya, Benjamin Asubam Weyori (2022). Improving the Financial Security of National Health Insurance using Cloud-Based Blockchain Technology Application, International Journal of Information Management Data Insights, Volume 2, Issue 1. https://doi.org/10.1016/j.jjimei.2022.100081

19. Anokye Acheampong Amponsah, Adebayo Felix Adekoya, **Benjamin Asubam Weyori** (2022). Modelling Data Flow in Blockchain-Based Smart Claim Processing System Using Time-Invariant Petri Net with Fixed Input Data, IJCSNS International Journal of Computer Science and Network Security, Vol. 22, No. 2. DOI: 10.22937/IJCSNS.2022.22.2.53

20. Isaac Kofi Nti, Owusu Nyarko-Boateng, Adebayo Felix Adekoya, **Benjamin Asubam Weyori** (2022). Applications of artificial intelligence in engineering and manufacturing: a systematic review, Journal of Intelligent Manufacturing, 33(1):1-21 DOI: 10.1007/s10845-021-01771-6

21. Solomon Kutiame, Richard Millham, Adebayo Felix Adekoya, Mark Tettey, **Benjamin Asubam Weyori**, Peter Appiahene (2022). Application of Machine Learning Algorithms in Coronary Heart Disease: A Systematic Literature Review and Meta-Analysis, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 13, No. 6. DOI: 10.14569/IJACSA.2022.0130620

22. Selasie Aformaley Brown, **Benjamin Asubam Weyori**, Adebayo Felix Adekoya, Patrick Kwaku Kudjo, Solomon Mensah (2022). Predicting Blocking Bugs with Machine Learning Techniques: A Systematic Review, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 13, No. 6. DOI: 10.14569/IJACSA.2022.0130680

23. Nimbe, P., **Weyori, B. A**., Adekoya, A.F. (2022). A Novel Classical and Quantum Cryptographic Scheme for Data Encryption, International Journal of Theoretical Physics, 61(3), 83. DOI: https://doi.org/10.1007/s10773-022-05054-5

24. Nimbe, P., **Weyori, B.A**., Adekoya, A.F., Awarayi, N.S. (2022). Implementation of Framework for Quantum-Classical and Classical-Quantum Conversion, International Journal of Theoretical Physics, 61(2), 37 DOI: https://doi.org/10.1007/s10773-022-04975-5

25. Afriyie, Y., A., **Weyori, B. A**., A. Opoku, A. (2022). Classification of Blood Cells Using Optimized Capsule Networks, Neural Processing Letters, https://doi.org/10.1007/s11063-022-10833-6

26. Isaac Kofi Nti, Owusu Nyarko-Boateng, Adebayo Felix Adekoya, **Benjamin Asubam Weyori** (2021). An empirical assessment of different kernel functions on the performance of support vector machines, Bulletin of Electrical Engineering and Informatics, Vol. 10, No. 6, pp. 3403 – 3411. ISSN: 2302-9285, DOI: https://doi.org/10.11591/eei.v10i6.3046

27. Peter Nimbe, **Benjamin Asubam Weyori**, Adebayo Felix Adekoya (2021). Rotation of bits: a classical and quantum perspective, Journal of Electrical Systems and Information Technology 8(4). DOI: https://doi.org/10.1186/s43067-021-00029-8

28. Peter Nimbe, **Benjamin Asubam Weyori**, Prosper Kandabongee Yeng (2021). A Framework for Quantum-Classical Cryptographic Translation, International Journal of Theoretical Physics, https://doi.org/10.1007/s10773-020-04698-5.

29. Anokye Acheampong Amponsah, Adebayo Felix Adekoya, **Benjamin Asubam Weyori** (2021). Blockchain in Insurance: Exploratory Analysis of Prospects and

Threats, International Journal of Advanced Computer Science and Applications, Vol. 12, No. 1. DOI : 10.14569/IJACSA.2021.0120153

30. Isaac Kofi Nti, Adebayo Felix Adekoya, **Benjamin Asubam Weyori** (2021). A novel multi-source information-fusion predictive framework based on deep neural networks for accuracy enhancement in stock market prediction, Journal of Big Data, 8(1). DOI: https://doi.org/10.1186/s40537-020-00400-y

31. Mensah Kwabena Patrick, **Benjamin Asubam Weyori**, Mighty Abra Ayidzoe (2020). Capsule network with K-Means routing for plant disease recognition, Journal of Intelligent and Fuzzy Systems 40(4):1-12. https://doi.org/10.3233/JIFS-201226

32. Mensah Kwabena Patrick, **Benjamin Asubam Weyori**, Mighty Abra Ayidzoe (2020). Gabor Capsule Network for Plant Disease Detection, International Journal of Advanced Computer Science and Applications, Vol. 11, No. 10. DOI : 10.14569/IJACSA.2020.0111048

33. Mensah Kwabena Patrick, **Benjamin Asubam Weyori**, Mighty Abra Ayidzoe (2020). Exploring the Performance of LBP-Capsule Networks with K-Means Routing on Complex Images, Journal of King Saud University - Computer and Information Sciences, pp. 1319-1578. https://doi.org/10.1016/j.jksuci.2020.10.006

34. O. Nyarko-Boateng, A. F. Adekoya, **B. A. Weyori** (2020). Using machine learning techniques to predict the cost of repairing hard failures in underground fiber optics networks, Journal of Big Data, Vol. 7, No. 64. DOI: https://doi.org/10.1186/s40537-020-00343-4

35. Owusu Nyarko-Boateng, Adebayo Felix Adekoya, **Benjamin Asubam Weyori** (2020). Predicting the actual location of faults in underground optical networks using linear regression, Engineering Reports. **https://doi.org/10.1002/eng2.12304**

36. Isaac Kofi Nti, Adebayo Felix Adekoya, **Benjamin Asubam Weyori** (2020). Predicting Stock Market Price Movement Using Sentiment Analysis: Evidence from Ghana, Applied Computer Systems, Vol. 25, No. 1, pp. 33 – 42. DOI: https://doi.org/10.2478/acss-2020-0004

37. Owusu Nyarko-Boateng, Adebayo Felix Adekoya, **Benjamin Asubam Weyori** (2020). Adopting Intelligent Modelling to Trace Fault in Underground Optical Network: A Comprehensive Survey, Machine Learning and Big Financial Data, Journal of Big Data, 7(1). **DOI:** https://doi.org/10.3844/jcssp.2020.1355.1366

38. Isaac Kofi Nti, Adebayo Felix Adekoya, **Benjamin Asubam Weyori** (2020). Efficient Stock-Market Prediction Using Ensemble Support Vector Machine, Open Computer Science, Vol. 10, pp 153-163. https://doi.org/10.1515/comp-2020-0199

39. Isaac Kofi Nti, Adebayo Felix Adekoya, **Benjamin Asubam Weyori** (2020). A comprehensive evaluation of ensemble learning for stock-market prediction, Journal of Big Data, 7(20), pp: 1-40. DOI: https://doi.org/10.1186/s40537-020-00299-5

40. O. Nyarko-Boateng, Faith Edem Bright Xedagbui, A. F. Adekoya, **B. A. Weyori** (2020). Fiber Optic Deployment Challenges and their Management in a Developing Country: A Tutorial and Case Study in Ghana, Engineering Report. **https://doi.org/10.1002/eng2.12121**

41. Isaac Kofi Nti, Adebayo Felix Adekoya, **Benjamin Asubam Weyori** (2020). A comprehensive evaluation of ensemble learning for stock-market prediction, Journal of Big Data, 7(20). DOI: https://doi.org/10.1186/s40537-020-00299-5

42. O. Nyarko-Boateng, **B. A. Weyori**, Lord Anertei Tetteh (2020). Optimized Authentication Model for Online Transaction Payments, Journal of Computer Science 16(2), pp. 225-234. https://doi.org/10.3844/jcssp.2020.225.234

43. I. K. Nti, A. F. Adekoya, **B. A. Weyori** (2019): A Systematic Review of Fundamental and Technical Analysis of Stock Market Predictions, Artificial Intelligence Review, pp. 1-51. DOI: https://doi.org/10.1007/s10462-019-09754-z

44. O. Nyarko-Boateng, A. F. Adekoya, **B. A. Weyori** (2019): Investigating QoS and Performance of Received Signal Strength Indicator in Fiber Optics Broadband Data Communication, American Journal of Engineering and Applied, pp. 1-11. **DOI:** https://doi.org/10.3844/ajeassp.2019.391.401

45. I. K. Nti, A. F. Adekoya, **B. A. Weyori** (2019): Random Forest-Based Feature Selection of Macroeconomic Variables for Stock Market Prediction, American Journal of Engineering and Applied, 16(7), pp. 200-212. *DOI: 10.3844/ajassp.2019.200.212*

46. **Benjamin Asubam Weyori**, Kwame Osei Boateng, Sampson Twumasi-Ankrah (2017): Efficient Novel Vector Median Filter Design for Impulse Noise Suppression in Color Images, International Journal of Innovative Computing, Information, and Control (IJICIC), Volume 13, Number 4. Doi: http://www.ijicic.org/ijicic-130614.pdf

47. **Benjamin Asubam Weyori**, Kwame Osei Boateng, Peter N. Amponsah, Paul K. Yeboah (2016): Design and Implementation of the Block Matching Hybrid Median Filter for Noise Removal in Color Images, International Journal of Innovative Computing, Information and Control (IJICIC), Volume 12, Number 6, pp. 1865-1879

48. **Benjamin Asubam Weyori**, Kwame Osei Boateng, Peter N. Amponsah, Paul K. Yeboah, Stephen Akobre (2016): Simulating the Effect of Noise and Distortions on The RGB Component of Real-World Color Images, International Journal of Innovative Computing, Information, and Control (IJICIC), Volume 12, Number 6, pp. 1929 -1941.

49. Sheng Wang, Jianfeng Lu, Xingjian Gu, **Benjamin A. Weyori**, Jing-Yu Yang (2016): Unsupervised discriminant canonical correlation analysis based on spectral clustering. Neurocomputing, 171, pp 425-433. https://doi.org/10.1016/j.neucom.2015.06.043

CONFERENCE PUBLICATIONS

1. Mensah Kwabena Patrick, **Benjamin Asubam Weyori** and Ayidzoe Abra Mighty (2020), Max-Pooled Fast Learning Gabor Capsule Network, International Conference on Artificial Intelligence, Big Data, Computing and Data Communication Systems (icABCD)).
2. **Benjamin Asubam Weyori**, Francis Attiogbe, Samuel Gyamfi, PBL Framework for African Higher Education: A Case Study in UENR (Accepted in 2020 International Research Symposium on Problem-Based Learning (IRSPBL 2020))
3. Prosper Yeng, Peter Nimbe, **Benjamin Asubam Weyori**, Bian Yang (2019). Web Vulnerability Measures for SMEs, Proceedings of the 12th Norwegian Information Security Conference, Norway.
4. **Weyori, B. A.**, Boateng, K. O. (2013)," Implementation of an Adaptive Median filter for Color Image Processing", 28th Biennial Conference, Ghana Science Association, Accra, July 14 - 19 2013.
5. **Weyori, B. A.**, Boateng, K. O., and Gbolagade K. A. (2009)," Residue Number System: An important tool to Secured Digital Image Coding", International Conference on Mathematics and its Applications, Accra, June 16 - 20 2009.