
CURRICULUM VITAE

Name: Rotimi-Williams BELLO, PhD
Sex: Male
Tel: +27798236073
E-mail: sirbrw@yahoo.com
ORCID: <http://orcid.org/0000-0002-8121-2712>

EDUCATIONAL INSTITUTIONS ATTENDED/ACADEMIC QUALIFICATIONS OBTAINED (WITH DATES)

Universiti Sains Malaysia, Pulau Penang, Malaysia (PhD)	2019-2022
Federal University of Technology, Akure, Ondo State, Nigeria (M.Tech)	2011-2016
Federal University of Technology, Minna, Niger State, Nigeria (B.Tech)	2001-2006
Federal Polytechnic, Offa, Kwara State, Nigeria (National Diploma)	1996-1999
Owo High School, Owo, Ondo State, Nigeria (WASSC)	1991-1996
Saint Patrick's Anglican School, Owo, Ondo State, Nigeria (Leaving Certificate)	1984-1990
Apostolic Primary School, Owo, Ondo State, Nigeria (Pre-school)	1982-1983

COURSES OF STUDY WITH GRADES

- Doctor of Philosophy (Field of Study: Vision & Image Processing)
- Master of Technology (Computer Science) with second class honours (upper division)
- Bachelor of Technology (Mathematics & Computer Science) with second class honours (upper division)
- National Diploma (Computer Science) with upper credit

PRESENT AND PREVIOUS WORK EXPERIENCE (WITH DATES)

- Postdoctoral Research Fellow: Department of Computer Systems Engineering, Faculty of Information and Communication Technology, Tshwane University of Technology, South Africa. 01 September 2024 till date
- Lecturer I: Department of Mathematics/Computer Sciences, University of Africa, Toru-Orua, Bayelsa State, Nigeria. October 2022 till date
- Assistant Lecturer: Department of Mathematics/Computer Sciences, University of Africa, Toru-Orua, Bayelsa State, Nigeria. January 2018-September 2022
- Responsibilities: Departmental Course Level Adviser (100 level: 2018-2019; 300 level: 2021-2022), Dept. Coordinator for Seminar (September 2022), Dept. Coordinator for Project (April-August 2023), Dept. Examination Officer (August 2023-2024), Dept. Representative at Faculty Research Committee (June 2022-2023), Member, Faculty Committee for Timetable and Examination (July 2023-August 2024).

Courses taught (undergraduate level): Introduction to Computer Science (**CSC 101**), Object Oriented Programming Language (**CSC 102**), History & Philosophy of Science (**GST 104**), ICT in Library (**GST 105**), Computer Programming I (**CSC 201**), Computer Networks (**CSC 205**), Discrete Structures (**CSC 212**), Digital Systems Design (**CSC 211/310**), Fundamental of Data Structures (**CSC 209**), Algorithms and Complexity Analysis (**CSC 210**), SIWES (**CSC 396**), Applications of Computer to Theatre Arts (**THA 314**), Management Information System (**CSC 317**), Artificial Intelligence (**CSC 409**) Distributed Computing Systems (**CSC 412**), Research Project (**CSC 499**). 1 September 2024-Date

- Graduate/Teaching Assistant: School of Computer Sciences, Institute of Postgraduate Studies, Universiti Sains Malaysia, Pulau Pinang, Malaysia. Oct 2019-December 2021.
- Responsibilities: Teaching, Research & Publications.

Courses taught (undergraduate level): **CST 232**-Operating systems

- Senior Programme Analyst: School of Nursing, Federal Teaching Hospital, Ido-Ekiti, Ekiti State, Nigeria. 2016-2018
- Responsibilities: Head of ICT unit, Tutor, & Admission officer.

Courses taught: GST 114-Introduction to information & communication technology (ICT), GST 216-Biostatistics

- System Analyst I: School of Nursing, Federal Teaching Hospital, Ido-Ekiti, Ekiti State, Nigeria. 2013-2015
- Responsibilities: Head of ICT unit, Tutor, & Admission officer.

Courses taught: GST 114-Introduction to information & communication technology (ICT), GST 216-Biostatistics

- Computer Scientist II: Federal Medical Centre (now Federal Teaching Hospital), Ido-Ekiti, Ekiti State, Nigeria. 2009-2012
- Responsibilities: Network administrator, & Computer appreciation trainer

National Youth Service Corps (NYSC): Government Secondary School, Nigerian Army Corps of Artillery, Shendam, Plateau State, Nigeria
2007-2008

Responsibilities: Computer/mathematics teacher (Adjunct)

University SIWES (Trainee): Micro System Nigeria Limited, Portharcourt, Rivers State, Nigeria. 2005

Polytechnic SIWES (Trainee): Multicraft Limited, Iyana Ipaja, Lagos State, Nigeria. 2000

AREAS OF SPECIALIZATION/RESEARCH INTEREST

- Artificial Intelligence
- Computer Vision
- Image Processing
- Smart Agriculture

PROFESSIONAL BODY/CHARTERED INSTITUTE

- Member, Computer Professionals (Registration Council of Nigeria) (2024)
- Member, Nigerian Institute of Management (Chartered) (2020)
- Member, International Association of Engineers, Hong Kong (2020)
- Member, Nigeria Computer Society (NCS) (2018)

CERTIFICATION

- Machine Learning Certification Course (Certificate of Completion) (2020)

PUBLICATIONS

- **Journals**

(Year 2025)

1. Bello, R.W., Ogundokun, R.O., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2025). Application of Convolutional Neural Networks in Animal Husbandry: A Review. Special Issue, Mathematics-Basel, 13(1906), 1-24.
2. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2025). Architecture for IT internship recruitment process based on AWS cloud. Journal of Information Systems Engineering and Management, 10(49s), 532-542.
3. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2025). Computer vision-based detection models for classifying ripening stages of tomato fruits. Journal of Information Systems Engineering and Management (Accepted for publication)
4. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2025). Audio Emotion Detection Application utilizing AWS Cloud. Recent advances in computer science and communications. (Accepted for publication)
5. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2025). SAM-IE: SAM-enabled image enhancement for segmentation of infected cucumber leaves. International Journal of Innovative Research and Scientific Studies. 8(2), 824-832.
6. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2025). Architecture for Detecting Advertisement Types. International Journal of Innovative Research and Scientific Studies, 8(1), 1725-1732.
7. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Du, C. (2025). Automated fault detection and analysis for large photovoltaic systems using photovoltaic module fault detection in drone vision system. Edelweiss Applied Science and Technology, 9 (2), 603-626.

(Year 2024)

1. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2024). Transfer-learning driven cattle instance segmentation using deep learning models. MDPI Agriculture. 14(12), 1-23.
2. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Du, C. (2024). Photovoltaic module dataset for automated fault detection and analysis in large photovoltaic systems using photovoltaic module fault detection. Data in Brief, 57, 111184.
3. Fatoki, O., Tu, C., Hans, R., Bello, R.W. (2025). Role of computer vision and deep learning algorithms in livestock behavioural recognition: A state-of-the-art- review. Edelweiss Applied Science and Technology, 8(6). 6416-6430.
4. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2024). SAM-PIE: SAM-enabled photovoltaic module image enhancement for fault inspection and analysis using ResNet50 and CNNs. International Journal of Advanced Computer Science and Applications, 11(15), 333-341.
5. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Du, C. (2024). Photovoltaic module dataset for automated fault detection and analysis in large photovoltaic systems using photovoltaic module fault detection. Mendeley Data, V1, doi: 10.17632/5ssmfgrpc.1
6. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2024). Estimation of tree height using UAV photogrammetric data. Edelweiss Applied Science and Technology, 8(6), 507-519.
7. Olubummo, D.A., & Bello, R.W. (2024). Computer vision-based precision livestock farming: An overview of the challenges and opportunities. World News of Natural Sciences, 54, 26-37.

8. Bello, R.W., & Godwill, J. A. (2024). Hybrid technologies and genetic algorithms applied to school lecture timetable generation. *World Scientific News*, 189, 288-310.
9. Bello, R.W., & Tobi, S. J. (2024). Software bugs: detection, analysis and fixing. *World Scientific News*, 189, 1-22.
10. Bello, R.W., & Oladipo, M.A. (2024). Mask YOLOv7 based drone vision system for automated cattle detection and counting. *Artificial Intelligence and Applications*, 2(2), 129-139.

(Year 2023)

11. Bello, R.W., & Oyinpreye, C. G. (2023). Design and simulation of an efficient VoIP network scenario for the University of Africa (Bulou-Orua campus), Bayelsa, Nigeria. *World Scientific News*, 186, 40-52.
12. Bello, R.W., & Oladipo, M.A. (2023). Mask the Target: Mask R-CNN based approach for open-range individual cattle segmentation. *DS Journal of Artificial Intelligence and Robotics*, 1(2), 15-25.
13. Moradeyo, O.M., Olaniyan, A.S., Ojoawo, A.O., Olawale, J.A., & Bello, R.W. (2023). YOLOv7 applied to livestock image detection and segmentation tasks in cattle grazing behavior, monitor and intrusions. *Journal of Applied Sciences and Environmental Management*, 27(5), 953-958.
14. Omopariola, O.G., Amiri, R., & Bello, R.W. (2023). A qualitative research on perception and experience of students regarding practice of cervical cancer screening: a case study of Nigerian Students. *World News of Natural Sciences*, 49(2023) 67-87.
15. Bello, R.W., Mohamed, A.S.A., & Talib, A.Z. (2023). A comprehensive review of smart animal husbandry: Its data, applications, techniques, challenges and opportunities. *World Scientific News*, 181(2023), 68-98.
16. Bello, R.W., & Moradeyo, O.M. (2023). Features-based individual cattle instance identification method using hybrid deep learning models for sustainable livestock management. *World Scientific News*, 180(2023), 119-131.
17. Bello, R.W., Oluigbo, C.U., Tiebiri, C.B., Ogidiga, B.D., & Moradeyo, O.M. (2023). Wood species identification using mask RCNN-residual network approach. *PRO LIGNO*, 19(1), 41-51.
18. Bello, R.W., Oluigbo, C.U., & Moradeyo, O.M. (2023). Motorcycling-Net: A hybrid-based classification method for recognizing motorcycling near misses. *Jurnal Ilmiah Teknik Elektro Komputer dan Informatika (JITEKI)*, 9(1), 96-106.
19. Bello, R.W., Oluigbo, C.U., Peanock, I.G., & Moradeyo, O.M. (2023). Underwater image enhancement for instance segmentation using GCFD and Hybrid deep learning models. *Journal of Applied Sciences and Environmental Management*, 27(2), 243-247.
20. Bello, R.W., Oluigbo, C.U., Moradeyo, O.M., & Olubummo, D.A. (2023). Motorcycling-Net: A segmentation approach for detecting motorcycling near misses. *Journal of Social Sciences and Economics*, 2(1), 20-30.

(Year 2022)

21. Bello, R.W., & Oluigbo, C.U. (2022). Deep learning-based SOLO architecture for re-identification of single persons by locations. *Jurnal Ilmiah Teknik Elektro Komputer dan Informatika (JITEKI)*, 8(4), 599-609.

22. Bello, R.W., & Adipere, G.F. (2022). Application of Region-based Convolutional Neural Network (R-CNN) for prompt segmentation between infected cucumber leaves and healthy cucumber leaves. *Journal of Applied Sciences and Environmental Management*, 26(11), 1791-1797.
23. Bello, R.W., Ikeremo, E.S., Otobo, F.N., Olubummo, D.A., & Enuma, O.C. (2022). Cattle segmentation and contour detection based on SOLO for precision livestock husbandry. *Journal of Applied Sciences and Environmental Management*, 26(10), 1713-1720.
24. Bello, R.W., Ikeremo, E.S., & Olubummo, D.A. (2022). Application of machine learning identification and classification of Muturu and Keteku cattle species for a smart agricultural practice in developing countries such as Nigeria. *Journal of Applied Sciences and Environmental Management*, 26(7), 1259-1262.
25. Bello, R.W., Mohamed, A.S.A., Talib, A.Z., Sani, S., & Wahab, M.N.A. (2022). Behavior recognition of group-rancher cattle from video sequences using deep learning. *Indian Journal of Animal Research*, 56(4): 505-512.
26. Bello, R.W., Mohamed, A.S.A., & Talib, A.Z. (2022). Smart animal husbandry: A review of Its data, applications, techniques, challenges and opportunities. Available at SSRN: <https://ssrn.com/abstract=4103776> or <http://dx.doi.org/10.2139/ssrn.4103776>
27. Bello, R.W., Otobo, F.N., Olubummo, D.A., Abubakar, S., & Bello, S.N. (2022). COVID-19 and virtual world: The implications on Nigeria education. *SSRN Electronic Journal*. Available at SSRN: <https://ssrn.com/abstract=3805733> or <http://dx.doi.org/10.2139/ssrn.3805733>
28. Bello, R.W., Otobo, F.N., Olubummo, D.A., Abubakar, S., & Bello, S.N. (2022). Covid-19 and virtual world: The implications on Nigeria education. *International Journal of Education and Teaching*, 2(1), 1-12.

(Year 2021)

29. Sumari, P., Ahmad, W.M.A.W., Hadi, F., Mazlan, M., Liyana, N.A., Bello, R.W., Mohamed, A.S.A., & Talib, A.Z. (2021). A precision agricultural application: Manggis fruit classification using hybrid deep learning. *Revue d'Intelligence Artificielle*, 35(5), 375-381.
30. Bello, R.W., Mohamed, A.S.A., Talib, A.Z., Olubummo, D.A., & Enuma, O.C. (2021). Enhanced deep learning framework for cow image segmentation. *IAENG Journal of Computer Science*, 48(4), 1182-1191.
31. Bello, R.W., Mohamed, A.S.A., & Talib, A.Z. (2021). Enhanced Mask R-CNN for herd segmentation. *Int J Agric & Biol Eng.*, 14(4): 238–244.
32. Bello, R.W., Mohamed, A.S.A., Talib, A.Z., Olubummo, D.A., & Enuma, O.C. (2021). Computer vision-based techniques for cow object recognition. *IOP Conference Series: Earth and Environmental Science*, 858(012008), 1-9.
33. Bello, R.W., Mohamed, A.S.A., & Talib, A.Z. (2021). Contour extraction of individual cattle from an image using enhanced Mask R-CNN instance segmentation method. *IEEE Access*, 9, 56984-57000.
34. Bello, R.W., Talib, A.Z., & Mohamed, A.S.A. (2021). Real-time cow detection and identification using enhanced particle filter. In *IOP Conference Series: Materials Science and Engineering*, 1051(1), 1-8.

35. Bello, R.W., Talib, A.Z.H., & Mohamed, A.S.A.B. (2021). Deep belief network approach for recognition of cow using cow nose image pattern. *Walailak Journal of Science and Technology (WJST)*. 18(5), pp. 1-14.

(Year 2020)

36. Bello, R.W., Olubummo, D.A., Seiyaboh, Z., Enuma, O.C., Talib, A.Z., & Mohamed, A.S.A. (2020). Cattle identification: the history of nose prints approach in brief. In *IOP Conference Series: Earth and Environmental Science*, 594(012026), 1-9.
37. Bello, R.W., Seiyaboh, Z., Olubummo, D.A., & Talib, A.Z. (2020). Classification of dataset using deep belief networks clustering method. *International Journal of Advanced Trends in Computer Science and Engineering*, 9(3), 2856-2860.
38. Bello, R.W., & Abubakar, S. (2020). Framework for modeling cattle behavior through grazing patterns. *Asian Journal of Mathematical Sciences*, 4(1), 75-79.
39. Bello, R.W., Talib, A.Z., & Mohamed, A.S.A. (2020). Application of deep belief network for detection of trypanosomiasis parasite in cattle using blood smear image. *Journal of Telecommunications System & Management*, 9(3), 4. (Abstract)
40. Akpojaro, J., & Bello, R.W. (2020). Image processing and supervised learning for efficient detection of animal diseases. *Computing, Information Systems, Development Informatics & Allied Research Journal*, 11(1), 39-48.
41. Bello, R.W., Talib, A.Z.H., & Mohamed, A.S.A.B. (2020). Deep learning-based architectures for recognition of cow using cow nose image pattern. *Gazi University Journal of Science*. 33(3), 831-844.
42. Bello, R.W., Talib, A.Z., Mohamed, A.S.A., Olubummo, D.A., & Ootobo, F.N. (2020). Image-based individual cow recognition using body patterns. *International Journal of Advanced Computer Science and Applications*, 11(3), 92-98.
43. Bello, R.W., Talib, A.Z.H., & Mohamed, A.S.A.B. (2020). A framework for real-time cattle monitoring using multimedia networks. *International Journal of Recent Technology and Engineering*, 8(5), 974-979.

(Year 2019)

44. Bello, R.W. (2019). Big data in medicine: Synchronizing life science with data science. *Journal of Computer Engineering & Information Technology*, vol. 8, pp. 21. (Abstract)
45. Olubummo, D.A., & Bello, R.W. (2019). The impact of information system (Internet of Things) on management and globalization. *Asian Journal of Computer Science Engineering*. 4(2):24-29.
46. Bello, R.W., & Moradeyo, O.M. (2019). Monitoring cattle grazing behavior and intrusion using global positioning system and virtual fencing. *Asian Journal of Mathematical Sciences*, 3(4), 4-14.
47. Bello, R.W., & Abubakar, S. (2019). Development of a software package for cattle identification in Nigeria. *Journal of Applied Sciences and Environmental Management*, 23 (10), 1825-1828.
48. Bello, R.W., & Akpojaro, J. (2019). Web camera automatic object detection with graphical representation of the object total appearance time. *International Journal of Educational Research and Studies*, 1(2), 24-27.
49. Bello, R.W., Akpojaro, J., & Olubummo, D.A. (2019). Impact of information communication technology in enhancing the management of the natural and cultural

- heritage resources in Idanre hills for e-tourism attraction. *Asian Journal of Mathematical Sciences*, 3(3), 41-50.
50. Bello, R.W., & Olubummo, D.A. (2019). Simplified traffic lights using 8051 Maxim DS89C4XX Embedded controller (MDE). *Asian Journal of Mathematical Sciences*, 3(3), 51-58.
 51. Ikiomoye, D.E., Bello, R.W., & Ibomoiye, D.M. (2019). Random multiple access scheme protocol. *International Journal of Innovative Technology and Exploring Engineering*, 8(7), 2150-2152.
 52. Bello, R.W., Ali, A.S., & Olubummo, D.A. (2019). Virtual assistant in business: A primer. *Asian Journal of Mathematical Sciences*, 3(2), 13-15.
 53. Akpojaro, J., & Bello, R.W. (2019). Smart healthcare system: A Primer. *International Journal for Innovative Research in Multidisciplinary Field*, 5(3), 143-149.
 54. Bello, R.W., & Akpojaro, J. (2019). Application of social networking and cloud-based services to smart education. *International Journal of Advanced Research in Computer Science and Software Engineering*, 9(1), 6-13.
 55. Omoniyi, G.T., Nor, S.A., Yusop, N.I., & Bello, R.W. (2019). Youth's attitude towards Internet crime: Social factors, causes and effects. *International Journal of Computer Science and Mobile Computing*, 8(1), 105-118.
 56. Omoniyi, G.T., Nor, S.A., Yusop, N.I., & Bello, R.W. (2019). Conceptual modeling of social factors using social control (Nigeria context). *International Journal for Innovative Research in Multidisciplinary Field*, 5(2), 128-139.
 57. Olubummo, D.A., Emmanuel, I.D., Ootobo, F.N., & Bello, R.W. (2019). Combining traditional face-to-face classroom practices with computer mediated activities for meaningful learning experience. *International Journal of Advanced Research in Computer and Communication Engineering*, 8(6), 1-9.

(Year 2018)

58. Bello, R.W. (2018). An overview of animal behavioral adaptive frightening system. *International Journal of Mathematics and Physical Sciences Research*, 6(1), 126-133.
59. Bello, R.W., & Ootobo, F.N. (2018). E-Museum of heritage resources-The challenges. *International Research Journal of Advanced Engineering and Science*, 3(3), 109-114.
60. Bello, R.W., & Ootobo, F.N. (2018). Hypothetical modeling of a supermarket queue-An approach. *International Journal of Advanced Research in Computer Science and Software Engineering*, 8(7), 55-59.
61. Bello, R.W., & Ootobo, F.N. (2018). Conversion of website users to customers-The black hat SEO technique. *International Journal of Advanced Research in Computer Science and Software Engineering*, 8(6), 29-35.
62. Bello, R.W., & Ootobo, F.N. (2018). Predicting differences in temperature data by modeling and simulation. *International Journal of Computer Science and Mobile Computing*, 7(5), 83-93.
63. Bello, R.W., Moradeyo, O.M., & Olaniyan, A.S. (2018). Web request level protection of cyber applications against threats and attacks. *International Journal of Scientific Engineering and Science*, 2(1), 52-56.
64. Bello, R.W., Moradeyo, O.M., Ojoawo, A.O., & Sonubi, T.A. (2018). Web-based specialty care interface referral service system for outpatient-The development and implementation. *International Journal of Scientific Engineering and Science*, 2(2), 19-25.

65. Bello, R.W., & Ootobo, F.N. (2018). Stored-knowledge based troubleshooting and diagnosing system. *International Journal of Scientific Engineering and Science*, 2(5), 19-24.
66. Bello, R.W. (2018). Architectural design of a secured web-based healthcare portal. *International Research Journal of Advanced Engineering and Science*, 3(2), 332-340.
67. Bello, R.W., & Ootobo, F.N. (2018). Embedded engines of telemedicine: A systematic review. *International Research Journal of Advanced Engineering and Science*, 3(2), 367-371.
68. Bello, R.W., Ootobo, F.N., & Eru, E.J. (2018). Virtual learning environment-Some realities. *International Research Journal of Advanced Engineering and Science*, 3(2), 372-374.
69. Bello, R.W., & Ootobo, F.N. (2018). Mathematical context of recurrent line tracking enhancement algorithm in fingervein technology. *International Research Journal of Advanced Engineering and Science*, 3(3), 184-187.
70. Bello, R.W. (2018). Societal adoption problems of Internet of Things (IOT)-A study. *International Journal of Advanced Research in Computer Science and Software Engineering*, 8(9), 5-11.
71. Bello, R.W., & Mohamed, A.S.A.B. (2018). Impact of technology on traditional museum collection storage and management. *International Journal of Computer Science and Mobile Computing*, 7(11), 46-51.
72. Bello, R.W., & Ootobo, F.N. (2018). Hardware/Software interoperability and single point vulnerability problems of internet of things multiple systems: causes, solution and societal adoption. *Asian Journal of Mathematical Sciences*, 2(2), 35-41.

➤ **Book Chapters/Series**

(Year 2025)

1. Bello, R.W., Owolawi, P.A., Tu, C., van Wyk, E.A. (2025). Prompt-Driven Approach for Cattle Image Segmentation Based on SAM. In: Arai, K. (eds) *Intelligent Computing. CompCom 2025. Lecture Notes in Networks and Systems*, vol 1424. Springer, Cham. https://doi.org/10.1007/978-3-031-92605-1_5
2. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2025). Object detection algorithms for digital imaging applications: A Review. In Book Chapter: *Image Sensors - Digital Imaging Systems and Applications*. IntechOpen, 1-44. DOI: 10.5772/intechopen.1010205
3. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2025). Cattle instance segmentation by transfer learning approach using deep learning models for sustainable livestock farming. In Book Chapter: *Sustainable Animal Agriculture - Global Challenges and Practical Solutions*. IntechOpen, 1-17. DOI: 10.5772/intechopen.1009155

(Year 2022)

1. Bello, R.W., Mohamed, A.S.A., & Talib, A.Z. (2022). Cow image segmentation using Mask R-CNN integrated with Grabcut. In: *Proceedings of International Conference on Emerging Technologies and Intelligent Systems. ICETIS 2021. Lecture Notes in Networks and Systems*, vol 322. Springer, Cham, pp. 23-32.

➤ **Conference Proceedings**

(Year 2025)

1. Bello, R.W., Owolawi, P.A., van Wyk, E. A., Tu, C., & Olubummo, D. A. (2025). Transdisciplinary Visual Communication: An Insight into its Techniques and Models. The 2025 International Conference on The AI Revolution: Research, Ethics, and Society, April 14-16, 2025, Las Vegas, USA.
2. Bello, R.W., Owolawi, P.A., van Wyk, E. A., Tu, C., & Oladipo, M. A. (2025). Real-time plant pest monitoring in Agrivoltaic farms using deep learning-based pest image generation models for sustainable pest management. ISPEC 17th International Conference on Agriculture, Animal Science and Rural Development, April 25-27, 2025, Kırşehir Ahi Evran University, Türkiye, (pp. 1482-1494)
3. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2025). Prompt-driven approach for cattle image segmentation based on SAM. Computing Conference 2025, June 19-20, 2025, London, United Kingdom.
4. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2025). Cloud-based face swapping application. 10th International Congress on Information and Communication Technology (ICICT 2025), February 18-21, 2025, London, United Kingdom.
5. Bello, R.W., Owolawi, P.A., van Wyk, E. A., Tu, C., & Olubummo, D. A. (2025). Synchronization of life science with data science: The roles of big data analytics. 2nd International Conference on "Innovations in Biotechnology and Health Sciences" (BIOCOM 2025), February 18-19, 2025, London, United Kingdom.

(Year 2024)

1. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2024). Image annotation tools and datasets: A comparative analysis in brief. The 2nd International Conference on AI-generated Content (AIGC 2024), Dec. 21-22, 2024, Beijing, China.
2. Bello, R.W., Owolawi, P.A., van Wyk, E. A., & Tu, C. (2024). Dronalyse: Cloud-based Drone for Photovoltaic Fault Inspection and Analysis. The 7th Asia Conference on Cognitive Engineering and Intelligent Interaction (CEII 2024) December 14-16, 2024, Singapore.
3. Fatoki, O., Tu, C., Hans, R., & Bello, R.W. (2024). Role of computer vision and deep learning algorithms in livestock behavioral recognition: a state-of-the-art review. ISPEC 16th International Conference on Agriculture, Animal Science and Rural Development, November 15-17, 2024 / Konya, Türkiye.
4. Bello, R.W., Owolawi, P.A., van Wyk, E. A., Tu, C., Pertunia, P. K., & Mahlangu, N. B. (2024). Comparative analysis of photogrammetric software for 3D building modeling: A case study at TUT. 2024 IEEE Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON 2024), 24 - 26 October 2024, University of California, Berkley, USA.
5. Bello, R.W., & Oladipo, M.A. (2024). Segmentation of individual cattle in the feedlot using Mask R-CNN. International Conference on Technological Solutions for Smart Economy (SmartEco'2024), 12th–15th August 2024, University of Port-Harcourt, Nigeria (pp. 263-271).

(Year 2023)

1. Bello, R.W., & Olubummo, D.A. (2023). Detecting motorcycling near miss incidents using computer vision and image processing-based system. NIPES 2nd International Conference, February 15th -17th, 2023, University of Benin, Nigeria (pp. 84-99).

(Year 2021)

2. Bello, R.W., Mohamed, A.S.A., Talib, A.Z., Olubummo, D.A., & Enuma, O.C. (2021). Computer vision-based techniques for cow object recognition. IOP Conference Series: Earth and Environmental Science, 7th International Conference on Agricultural and Biological Sciences (ABS 2021), August 9th -11th, 2021, China.
3. Bello, R.W., Mohamed, A.S.A., & Talib, A. Z. (2021). Cow image segmentation using Mask R-CNN integrated with Grabcut. In Lecture Notes in Networks and Systems, Springer Book Series, International Conference on Emerging Technologies and Intelligent Systems (ICETIS 2021), June 25th-26th, 2021, Malaysia.

(Year 2020)

4. Bello, R.W., Talib, A.Z., & Mohamed, A.S.A. (2020). Real-time cow detection and identification using enhanced particle filter. IOP Conference Series: Materials Science and Engineering, 5th International Conference on Advanced Technology & Applied Sciences in conjunction with 6th Malaysia-Japan Joint International Conference (ICaTAS & MJJIC 2020), October 7th-9th, 2020, Malaysia. (CPCI, WOS indexed)
5. Bello, R.W., Olubummo, D.A., Seiyaboh, Z., Enuma, O.C., Talib, A.Z., & Mohamed, A.S.A. (2020). Cattle identification: the history of nose prints approach in brief. IOP Conference Series: Earth and Environmental Science, 6th International Conference on Agricultural and Biological Sciences (ABS 2020), August 23rd-26th, 2020, Tokyo.

(Year 2019)

6. Omoniyi, G.T., Nor, S.A., Yusop, N.I., & Bello, R.W. (2019). Internet crime among the Youth: Social Factors, Causes and Effects. Proceedings of 2019 International Conference on Information Technology in Education and Development (ITED), Baze University, Abuja, April 24th-26th, 2019.
7. Bello, R.W. (2019). Big data in medicine: Synchronizing life science with data science. Joint Event on 10th International Tissue Repair and Regeneration Congress & 12th Annual Conference on Stem Cell and Regenerative Medicine & International Conference on Cell Biology and Genomics, Helsinki, Finland, June 13th-14th, 2019.
8. Bello, R.W., & Ali, A.S. (2019). Combining traditional face-to-face classroom practices with computer mediated activities for meaningful learning experience. Abstract Book of 13th International Malaysian Educational Technology Convention (IMETC 2019), Centre for Instructional Technology and Multimedia, Universiti Sains Malaysia, August 26th-28th, 2019, bp. 31.
9. Moradeyo, O.M., & Bello, R.W. (2019). Application of genetic algorithm for optimal distribution of transformers: A panacea for sustainable power development in Nigeria. Book of Abstracts of 8th National Conference of the Faculty of Science of The Polytechnic, Ibadan, June 9th-12th, 2019, bp. 6.

(Year 2018)

10. Moradeyo, O.M., & Bello, R.W. (2018). Conversion of web site users to customers using search engine optimization. Book of Abstracts of 7th Annual National Conference of the Faculty of Science of The Polytechnic, Ibadan, May 1st-4th, 2018, bp. 36.

11. Moradeyo, O.M., & Bello, R.W. (2018). Embedded engines of telemedicine: a systematic review. Book of Abstracts of 7th Annual Conference of the Faculty of Science of the Polytechnic, Ibadan, May 1st-4th, 2018, bp. 37.

➤ **Books**

(Year 2019)

1. Bello, R.W. Essential ICT for informatics and management students. LAP LAMBERT Academic Publishing, Latvia, European Union. 2019. ISBN-10: 6200313245
2. Bello, R.W. Modeling temperature differences. LAP LAMBERT Academic Publishing, Latvia, European Union. 2019. ISBN-10:6139985757
3. Bello, R.W. Development of a secured web-based healthcare portal. Advance Academic Publisher, India. 2018. ISBN: 978-93-87396-15-9

➤ **Conference Presentations**

(Year 2025)

1. The 2025 International Conference on The AI Revolution: Research, Ethics, and Society, April 14-16, 2025, Las Vegas, USA.
2. ISPEC 17th International Conference on Agriculture, Animal Science and Rural Development, April 25-27, 2025, Kırşehir Ahi Evran University, Türkiye.
3. Computing Conference 2025, June 19-20, 2025, London, United Kingdom.
4. 10th International Congress on Information and Communication Technology (ICICT 2025), February 18-21, 2025, London, United Kingdom.
5. 2nd International Conference on "Innovations in Biotechnology and Health Sciences" (BIOCOM 2025), February 18-19, 2025, London, United Kingdom.

(Year 2024)

1. Speaker, Postgraduate Workshop for Computer Systems Engineering and Information Technology (CSE-IT PRW2024), Tshwane University of Technology, November 22, 2024.
2. The 2nd International Conference on AI-generated Content (AIGC 2024), Dec. 21-22, 2024, Beijing, China.
3. ISPEC 16th International Conference on Agriculture, Animal Science and Rural Development, November 15-17, 2024 / Konya, Türkiye.
4. 2024 IEEE 15th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON 2024), 24 - 26 October 2024, University of California, Berkley, USA.
5. International Conference on Technological Solutions for Smart Economy (SmartEco'2024), 12th – 15th August 2024. University of Port-Harcourt, Nigeria.

(Year 2023)

6. 2nd Annual International Conference of the Nigerian Institution of Professional Engineers and Scientists (NIPES), 15th – 17th February 2023. University of Benin, Nigeria.

(Year 2021)

7. Computer Science Postgraduate Colloquium, Universiti Sains Malaysia, 11800, Pulau Pinang, Malaysia. Theme: Towards Impactful Research in the Online Norm. September 21st-22nd, 2021.
8. 7th International Conference on Agricultural and Biological Sciences (ABS 2021), August 9th -11th, 2021, China.
9. International Conference on Emerging Technologies and Intelligent Systems (ICETIS 2021), June 25th-26th, 2021, Malaysia.

(Year 2020)

10. Computer Science Postgraduate Colloquium, Universiti Sains Malaysia, 11800, Pulau Pinang, Malaysia. Theme: Embracing Our Research Journey in the New Normal. September 2nd-3rd, 2020.
11. Professional and Personal Development Workshop. Institute of Postgraduate Studies, Universiti Sains Malaysia, 11800, Pulau Pinang, Malaysia, August 4th-28th, 2020.
12. 5th International Conference on Advanced Technology & Applied Sciences in conjunction with 6th Malaysia-Japan Joint International Conference (ICaTAS & MJJIC 2020), October 7th-9th, 2020, Malaysia.
13. The 6th International Conference (online) on Agricultural and Biological Sciences (ABS 2020), August 23rd-26th, 2020, Tokyo, Japan.
14. International Conference on Humanoid Robotics, Artificial Intelligence and Automation | May 21st, 2020 | London, UK.

(Year 2019)

15. Malaysia Digital Economy Corporation (MDEC), MDEC-Intel AI Academy, 2019.
16. 13th International Malaysian Educational Technology Convention (IMETC 2019), Theme: Combining traditional face-to-face classroom practices with computer mediated activities for meaningful learning experience. Centre for Instructional Technology and Multimedia, Universiti Sains Malaysia. 26th-28th August 2019, bp. 31.
17. Computer Science Postgraduate Colloquium (CSPC 2019). Theme: Inspiring sustainable living via computing, technology and innovation. Sains@USM, Bukit Jambul, Universiti Sains Malaysia, 20th-22nd August 2019.
18. 8th National Conference. Theme: Science, Technology and Entrepreneurship: A panacea for empowerment and sustainable development. Faculty of Science, The Polytechnic, Ibadan, Nigeria, 9th-12th June 2019.
19. Computer Professionals [Registration Council of Nigeria], Executive Registration Programme, held between 25th-27th March 2019.
20. International Conference on Information Technology in Education and Development (ITED). Theme: Advancing the capacities of information technology professionals for rapid national development. Baze University, Abuja. 24th-26th April 2019.

(Year 2018)

21. Nigeria Computer Society 27th National Conference. Theme: Digital inclusion. International Conference Centre, University of Ibadan, Nigeria, 17th-19th July 2018.
22. 7th Annual National Conference. Theme: Exploiting science, technology, and entrepreneurship for sustenance of economic growth and national development. Faculty of Science, The Polytechnic, Ibadan, Nigeria, 1st-4th May 2018.

23. 1st Staff Retreat and Colloquium. Theme: University teaching and administration in the 21st century. University of Africa, Toru-Orua (UAT), Bayelsa State, Nigeria, 20th-21st February 2018.

SERVICE A (JOURNALS & CONFERENCES REVIEWER)

1. Journal of Computational Methods in Sciences and Engineering (Sage) (ISSN: 1472-7978)
2. Visual Computer (Springer) (ISSN: 0178-2789, 1432-2315)
3. Ain Shams Engineering Journal (ISSN: 2090-4479, 2090-4495)
4. IEEE Journal of Biomedical and Health Informatics (ISSN: 2168-2194, 2168-2208)
5. Journal of Field Robotics (Wiley) (ISSN: 1556-4959, 1556-4967)
6. Mathematics and Computer Science (ISSN: 2575-6028; 2575-6036)
7. International Journal of Informatics and Communication Technology (IJ-ICT) (ISSN: 2252-8776, 2722-2616)
8. 2025 IEEE 15th Annual Computing and Communication Workshop and Conference (CCWC)
9. MDPI Electronics (ISSN: 2079-9292)
10. MDPI Sensor (ISSN: 1424-8220)
11. MDPI Symmetry (ISSN: 2073-8994)
12. MDPI Mathematics (ISSN: 2227-7390)
13. MDPI Agriculture (ISSN: 2077-0472)
14. MDPI Applied Sciences (ISSN: 2076-3417)
15. 2024 IEEE 15th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)
16. Journal of Big Data (Springer Nature) (ISSN: 2196-1115)
17. PeerJ Computer Science (ISSN: 2376-5992)
18. Scientific Reports (Springer Nature) (ISSN: 2045-2322)
19. European Journal of Wood and Wood Products (Springer) (ISSN: 0018-3768, 1436-736X)
20. Asian Journal of Research in Agriculture and Forestry (ISSN: 2581-7418)
21. Signal, Image and Video Processing (Springer Nature) (ISSN: 1863-1703, 1863-1711)
22. Italian Journal of Animal Science (ISSN: 1594-4077, 1828-051X)
23. Ekowe Journal of Science and Technology
24. Applied Artificial Intelligence (Taylor & Francis) (ISSN: 0883-9514, 1087-6545)
25. Computer Systems Science and Engineering (ISSN: 0267-6192)
26. IEEE Access (ISSN: 2169-3536).
27. Uttar Pradesh Journal of Zoology (Print ISSN: 0256-971X).
28. Journal of Agricultural and Crop Research (ISSN: 2384-731x).
29. Current Journal of Applied Science and Technology (ISSN: 2457-1024).
30. Journal of Computer Science (ISSN: 1549-3636, 1552-6607).
31. Advances in Modern Agriculture (ISSN: 2811-0145)
32. ROBOMECH Journal (Springer Nature) (ISSN: 2197-4225)

SERVICE B (JOURNAL EDITORIAL BOARD MEMBER)

1. Articles Academy
2. Mathematics and Computer Science (ISSN Online: 2575-6028; ISSN Print: 2575-6036) <http://www.mathcomputer.org/editorial-board> from 20 November 2024 to 20 November 2027.

3. Edelweiss Applied Science and Technology (ISSN: 2576-8484) <https://learning-gate.com/index.php/2576-8484/editorialteam>

HONOURS/AWARDS

- First Digital Humanism Summer School in Africa, at Carnegie Mellon University, Kigali, Rwanda (July 14-18, 2025).
- Graduate on Time (GOT) award, Institute of Postgraduate Studies, Universiti Sains Malaysia (2022).
- Computer Science Postgraduate Colloquium, Universiti Sains Malaysia. Certificate of recognition for an outstanding contribution as Committee (2019-2021).
- Graduate Assistant Fellowship, Universiti Sains Malaysia, Malaysia (2019-2021).
- National Youth Service Corps (NYSC) zonal certificate of merit for community development outstanding contribution (2008).
- Undergraduate Scholarship, Ondo State Scholarship Board, Nigeria (2003-2006).

EXTRA CURRICULAR ACTIVITIES

- Singing/writing of songs and listening to/watching entertaining & educational programmes.

REFEREES

Available on request