



CURRICULUM VITAE

NAME: Ayoleke F. IBIKUNLE, *FNSE, FNIPE, MIEEE*
SEX: Male
NATIONALITY: Nigerian
MARITAL STATUS: Married
CURRENT CONTACT ADD: Electrical and Information Engineering Department,
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RANK Professor (2013)

Google Scholar link: <https://scholar.google.com/citations?User=p0ba9yiaaaaaj&hl=en>

Research gate link: <https://www.researchgate.net/profile/Francis-Ibikunle-2/research>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=26666087700>

A. EDUCATIONAL BACKGROUND

i. SCHOOLS ATTENDED WITH DATES

- 1) St. Anthony's Grammar School, Mushin, Ogun state, - 1980
- 2) Rivers State University, Port-Harcourt, Rivers state - 1986
- 3) Beijing University of Posts & Telecommunications, Beijing, - 1995
- 4) Beijing University of Posts & Telecommunications, Beijing, - 1997

ii. ACADEMIC QUALIFICATIONS WITH DATES

- 1) West Africa Exam Council / General Certificate Exam (**First Division**) 1980
- 2) **B.Tech** in Electrical/Electronic Engineering, (Second Class), 1986
- 3) **M.Eng.** in Information and Telecommunications Engineering, 1995
- 4) **Ph.D.** in Information and Telecommunications Engineering, 1997

iii. CERTIFICATE/DIPLOMA

- 1) **Certificate** in Faculty Development Program on AI & Machine Learning - June/July, 2021

B. DISTINCTIONS, SCHOLARSHIPS, HONORS AND AWARDS

- 1) Scholarship Awards for MSc & PhD degrees by Federal Government of Nigeria 1993 - 1997
- 2) Best overall Graduate student at Master's degree level, 1993- 1995
- 3) Division One at WASCE/GCE, 1980
- 4) **FIFA '99** Recommendation Letter and Award, 1999
- 5) The "Most Innovative Electronics Engineer" of The Year, Abuja, 2005
- 6) **Best Lecturer** Award, E.I.E Department, Covenant University, 2010/2011
- 7) **Cash Prize**, Chancellor's High Impact Journals Award, Covenant University, 2012
- 8) **Certificate of Appreciation** Award as a Member Of Technical Program Committee (TPC) at the IEEE/NIGERCON 2022 Conference, 17th – 19th May 2022
- 9) **Excellence Teaching Prowess** Award by College of Science & Engineering, LMU, 2018
- 10) **Exemplary Leadership** Award as HoD, Electrical & Information Engineering Dept., 2017/18
- 11) **Leadership** Award as HoD, Electrical Engineering Department, 2018/2019
- 12) **Award of Excellence** as PATRON, LUEESA, Omuaran, 2018/2019
- 13) **Meritorious Service** Award as Chairman of Nigerian Society of Engineers, Omu aran Branch, 2021
- 14) Conferment of **FELLOW** of the Nigerian Institution of Power Engineers (**FNIFE**), Abuja, 2020
- 15) Conferment of **FELLOW** of the Nigerian Society of Engineers (**FNSE**), Abuja - 2020
- 16) **Certificate of Excellence Service** Award as the Ex-Officio and IPC of Nigerian Society of Engineers, Omu aran Branch, 2020/2021
- 17) **Certificate of Appreciation** as Member of Technical Program Committee (TPC), IEEE NIGERCON 2022 Conference, 17th- 19th May 2022

C. INDUSTRY WORKING EXPERIENCE (20 years' experience in ICTs, Power & Telecommunications Engr

- 1) **Company:** Nigerian Telecoms Ltd (NITEL), State HQ, Owerri, (1986 – 1987)
Position: NYSC, (Telephone Switching Center)
- 2) **Company:** Nigerian Telecoms Ltd (NITEL), Marina, Lagos. (1988 – 1993)
Position: Engineer 1, (Data Communication / COSIT Centre)
- 3) **Company:** Nigerian Telecoms Ltd (NITEL), Odunlami, Lagos /Abuja. (1998 – 2000)
Position: Manager/HoD, Internet Services Unit
- 4) **Company:** NITEL Engineering/Technology Training Centre, Oshodi, (2000 – 2002)
Position: Instructor (Internet Training Centre)
- 5) **Company:** Nigerian Mobile Telecoms (M-TEL), Abuja. (2002– 2004)
Position: Senior Manager, Project Planning & Implementation Section
- 6) **Company:** Nigerian Mobile Telecoms (M-TEL), GSM Operation, Abuja (2004 - 2006)
Position: DGM/HoD (Network Quality Management Department),

D. TEACHING EXPERIENCES

- 1) **Lecturer1** - Covenant University Ota, Nigeria. 2007–2010
- 2) **Senior Lecturer** - Covenant University, Ota, Nigeria. 2010 – 2013
- 3) **Professor** - BIUST, Palapye, Botswana 2013 – 2016
- 4) **Professor** - Landmark University, Omu aran, 2017 - till date

E. **COURSES TAUGHT**

i. **LANDMARK UNIVERSITY, OMUARAN**

a) **Undergraduate Courses Taught**

1. Communications Principles	EIE312
2. Electrical Measurement and Instrumentation	EIE319
3. Electric Circuit 2	EIE324
4. Software Development Techniques	EIE326
5. Data Communications & Computer Networks	EIE418
6. Internet of Things (IoTs)	IoT412
7. Research Methodology	EIE510
8. Digital Signal Processing	EIE527
9. Entrepreneurial Development Studies(EDS)	EDS 511, 521

b) **MSc & PhD Courses Taught**

1) Advanced Mobile & Wireless Communications Systems	ICT811
2) Advanced Digital Communications Systems	ICT812
3) Advance Research and Development Techniques	EIE811
4) Advanced Engineering Mathematics	EIE810
5) Advanced Computer Network and Security	ICT822
6) Internet Systems Engineering	1CT820
7) Deep Learning/Artificial Neural Networks (ANN)	EIE825
8) Advanced Mobile & Wireless Communications Systems	ICT911
9) Advanced Digital Communications Systems	ICT912
10) Modelling and Simulations	ICT923

ii. **BIUST, BOTSWANA**

Undergraduate Courses Taught

1) Analog Electronics	EEEN322
2) Digital Electronics	EEEN 321
3) Introduction to ICTs	TELE 221
4) Data Communications & Networks	CPN 413

iii. **COVENANT UNIVERSITY, OTA**

(a) **Undergraduate Courses Taught**

1) Mobile & Wireless Communications Networks	ICT511
2) Data Communications and Networks	EIE418
3) Project Management	EIE511
4) Information theory and coding	ICT523
5) Artificial Neural Networks(ANN)	EIE520
6) Research methodology	EIE510

(b) **MSc & PhD Courses Taught**

1) Advanced Mobile & Wireless Communications Systems	ICT812
2) Advanced Computer Networks and Security	ICT822
3) Artificial Intelligence Techniques	EIE825
4) Advance Research and Development techniques	EIE812

F. STUDENTS RESEARCH & PROJECT SUPERVISIONS

I. BSC. SUPERVISIONS: 105 Final Year Projects

- 2007-2013 Covenant university, Ota - **50 Students**
- 2017-2022 Landmark University, Omu aran, - **69 Students**

Completed - 119 final year projects

II. MASTERS DEGREE SUPERVISIONS: 11 MSc / MEng

NO	NAME	PROJECT TITLE	YEAR
1	Shomoye O.	Radio Propagation Path Loss Prediction in a Mobile Wireless Communication Environment,	2012
2	OSHIN Sanjo	Cross-layer Optimization in Wireless Networks-	2012
3	Adu Damilola	Comparative Analysis of VOIP QoS in Different Wireless Access Technologies	2012
4	Jimoh Olaoluwa	Enhancing Information Security of an Examination Grading System using Cryptography	2013
5	Fikile K.,	Software Defined Network: Emulation of Open flow network	2016
	Mosutlha Isiaih,	Call Admission Control in Wireless (4G) Communication	2016
7	Onalethata Matlhape	Augmented Reality as a Learning Aid	2016
8	Folarin Femi,	Time Series-based Traffic Prediction of a Campus Network	2020
9	Okoro Daniel,	Implementation of a Secured Campus Network VoIP System using Asterisk	2020
10	Tunde Kareem	Development of a Machine Learning Model for Classifying Free Space Optics Communication Channel Impairments	2022
11	Kola Akorede Jr	Orthogonal Frequency Division Multiplexing (OFDM) and its Variant Waveform in 5G and Beyond	On-going

III. **PH.D DEGREE SUPERVISIONS: 4 Ph.D.**

N o	NAME	PROJECT TITLE	YEAR
	Adetiba E	Genomics Based Artificial Neural Networks (ANN) Ensemble for Medical Diagnosis: a case study of Non-Small Cell Lung Cancer	2013
li	Alao D.O	Culture-based Adaptive Web Design,	2013
lii	P. Mompoloki	Design & Development of Remote, Real Time & Secure WSN Water Quality Monitoring System	2017
iv	T. Luza	Herd Behavior-Based Wildlife Species Identification Through Camera	2017
v	Jiya Enoch	Human detection in Non-Line-of-Sight through Machine Learning Technique	On-going

G. COMPLETED RESEARCH PROJECTS (UN-PUBLISHED)

- i. Design and Implementation of a 7.5 kVA Solar Photovoltaic System for Electrical Engineering Department in Landmark University
- ii. Development of Farm Crop Disease detector and the Remedy using Deep Learning Method
- iii. Wireless Technology and Network Infrastructure for Local Government Election
- iv. Design and Construction of an RFID Reader for Security
- v. Design and Implementation of Intranet Portal for Electrical and Information Engineering Department
- vi. Design and Implementation of Infrared Based Digital Attendance Counter System
- vii. Artificial Neural Networks Applied to Road Traffic Sign Recognition
- viii. Modelling and Simulation of a Wireless (WIFI and WIMAX) Communication System using MATLAB
- ix. Design of a Speaker Recognition System for Restricted Access Using ANNs
- x. Development of a GSM controlled display system for LMU farm.
- xi. Design and development of a metal detection circuit for LMU farm and environment
- xii. Design and construction of an automated fish pond
- xiii. Design and construction of an automatic electric fence for Rabbit Ranch

H. ADMINISTRATIVE EXPERIENCES/ RESPONSIBILITIES

➤ COMPANY/INDUSTRY LEVEL

- i. **HoD/Deputy General Manager**, (Network Quality Management) MTel Ltd, Abuja. 2004 -2006
- ii. **Manager/ HoD**, NITEL Internet Service Unit, Headquarters, Abuja. 1998 - 2001

➤ UNIVERSITY LEVEL

- iii. **Governing Council Member**, Botswana International University of Science & Technology (BIUST), Botswana, 2013 - 2015
- iv. **Board Member**, Landmark Waste-to-Wealth & Energy Initiative (LUWWEI), 2019-2021
- v. **Director**, Landmark University Waste-to-Wealth & Energy Initiative (LUWWEI), 2019-2021

- vi. **Senate Member**, Landmark University, Omu aran 2017- till date
- vii. **Board Member, School of Postgraduate Studies**, Landmark University, Omu aran, 2019- till date
- viii. **Member, Senate Curriculum Development Committee**, Landmark University, 2019- 2021
- ix. **Chairman (Alternate) Strategic Planning Committee**, Landmark University 2018 – 2019
- x. **Senate Member**, Botswana International University of Science & Technology, Botswana, 2013-2016
- xi. **Senate Executive Member**, Botswana International University of Science & Technology, 2015- 16
- xii. **Group Research Leader**, Telecommunications and Signal Processing Research Group, Electrical, Computer and Telecoms Engineering Department, BIUST, 2014 -2016
- xiii. **Chairman**, Search Committee for University Deputy Vice-Chancellor, Research & Innovation, 2015
- xiv. **Member**, University Student Information Management System (SIS) Implementation, 2014/2015
- xv. **Chairman**, BIUST ICT Committee, 2013 – 2015
- xvi. **Chairman**, BIUST Website Development Committee, 2015
- xvii. **Member**, Covenant University Special Chair Endowment Committee, 2013
- xviii. **Vice Chancellor Representation**, Nigerian University Convocation Ceremonies 2018 – 2021
- xix. **Chairman**, Publication Sub-Committee, 1st EIE Int'l Conference (eieCon2011) on C.E.N.T., Covenant University (CU), Nigeria, Sept, 2011
- xx. **Chairman**, Publication Sub-Committee, 2nd EIE Int'l Conference (eieCon2012), 21-23, Covenant University, Nigeria, 2012

➤ **COLLEGE LEVEL**

- xxi. **Conference Chair**, College of Engineering Conference Committee 2023
- xxii. **Member**, College Board Advisory Committee, Landmark University(LMU) 2017- till date
- xxiii. **Member**, College Examiners Board Committee, Landmark University, 2017- till date
- xxiv. **Member**, College Appointment & Promotions Committee (AP&C), LMU, 2017 – till date
- xxv. **Chairman**, BIUST College Task Force Committee, Botswana, 2014 – 2016
- xxvi. **Chairman**, BIUST ICT Committee, Botswana, 2013 – 2015
- xxvii. **Chairman**, BIUST Website Development Committee, Botswana, 2015
- xxviii. **Member**, Covenant University ICT & Webometric Committee, CU, Ota 2007 - 2013.

➤ **DEPARTMENTAL LEVEL**

- xxix. **HOD**, Dept. of Electrical, Computer & Telecoms Engineering, BIUST, Botswana 2014 – 2016
- xxx. **HOD**, Dept. of Electrical & Information Engineering, Landmark University, Omu-aran 2017 – 2019
- xxxi. **Chairman**, NUC Accreditation Committee, EIE Department, Landmark University, 2022
- xxxii. **Chairman**, Departmental Board of Studies, Landmark University, Omu-aran 2017 - to date
- xxxiii. **Chairman**, Curriculum Review Committee, EIE Dept., Landmark University (LMU) 2020- 2021
- xxxiv. **Chairman**, Departmental Appointment & Promotions Committee, LMU 2018-to date
- xxxv. **Chairman**, Departmental Board of Studies, Landmark University, Omu-aran 2017- to date
- xxxvi. **Chairman**, Departmental Postgraduate Board of Examiners, Landmark Univ., 2017–to 2021
- xxxvii. **Chairman**, Departmental Research Committee, Covenant University (CU), Ota 2012- 2013
- xxxviii. **Chairman**, Departmental ICT and Webometric Committee, Covenant University, 2012 - 2013
- xxxix. **Member**, Departmental Appointment & Promotions Committee, Covenant University, 2010-2013
- xl. **Coordinator**, Electrical Engineering Department Laboratory, Covenant University 2009-2012
- xli. **Chairman**, Departmental ICT and Webometric Committee, Covenant University, Ota 2012
- xl. **Chairman**, Departmental Curriculum Development Committee, Covenant Univ, 2008 - 2011
- xl. **Level adviser**, Electrical & Information Engineering Department, Covenant University, 2008-2013
- xl. **Member**, CUSAT Examiner Committee, Covenant University, Ota 2008-2013
- xl. **Member**, Landmark University Master Plan Project Committee, CU, Ota 2010 2012

I. EXTERNAL EXAMINERSHIP / ASSESSORHIP

➤ EXAMINERSHIP

- i. **External Examiner**, Undergraduate Programme, FUT, Minna, Niger State. (2 year)s 202 2- 2024
- ii. **Examiner, PhD Thesis:** Development of Patch Array Feeds for Parabolic Reflector Antennas in satellite Missions
- iii. **Examiner, PhD Thesis:** Certain Investigations on Developing Efficient Broadcasting Algorithms for Mobile Ad Hoc Network
- iv. **Examiner, PhD Thesis:** Raw Video Processing Using Hybrid Technique for Specific Applications
- v. **Examiner, PhD Thesis:** Performance Evaluation of State-Subsidized Housing Scheme
- vi. **Examiner, PhD Thesis:** Prediction of Voltage Collapse on the Nigerian National 330KV Grid using ANN
- vii. **Examiner, PhD Thesis:** Based Artificial Neural Networks (ANN) Ensemble for Medical Diagnosis: a case Study of Non-Small Cell Lung Cancer (NSCLC).
- viii. **Examiner, PhD Thesis:** Student's Satisfaction with Academic Facilities in Private Universities in Ogun-State

➤ ASSESSORHIP

- i. **External Assessor, Ph.D. Thesis:** Department of Electrical and Information Engineering, Covenant University, Ota, Nigeria 2023
- ii. **External Assessor, Ph.D. Thesis:** Department of Electrical and Information Engineering, Covenant University, Ota, Nigeria 2022
- iii. **Assessor, Professor Cadre:** Department of Electrical and Electronics Engineering, Ladoké Akintola University of Technology, Ogbomosho, Nigeria 2022
- iv. **Assessor, Reader Cadre:** Department of Electrical and Electronics Engineering, Ladoké Akintola 2021 University of Technology, Ogbomosho, Nigeria

J. PROFESSIONAL SERVICES / EDITORIAL BOARD /REVIEWER

- a. **Board Member**, Nigerian Hydro-Power Professional Association (NHPA), 2020 to date
- b. **Founding Chairman**, Nigerian Society of Engineers, Omuraran Branch, Kwara. 2017- 2018
- c. **Pioneer Chairman**, Nigerian Society of Engineers, Omu aran Branch, Kwara, 2018–2020
- d. **Member**, Nigerian Content Committee of Nigerian Society of Engineers (NSE), 2018 – 2019
- e. **TPC Member**, IEEE International Conference on Disruptive Technologies for Sustainable Development (NIGERCON2022) 17th- 19th May 2022
- f. **TPC Member**, IEEE 5th Information Technology for Education and Development (ITED) Conference, Abuja, Nov., 2022
- g. **TPC Member/ Local Organizing Committee (LOC)**, International Conference on 'Clean Energy for Sustainable Growth in Developing Countries, Sept. 2015 BIUST, Palapye, Botswana
- h. **Chairman**, ICT Sub-Committee, 20th NIAE International Conference & AGM, Omu aran, Sept. 2019.
- i. **Member**, Central Organizing Committee, 20th NIAE International Conference and Annual General Meeting, "Omu Aran 2019", 16th – 20th Sept. 2019.
- j. **LOC Member**, International Conference on 'Clean Energy for Sustainable Growth in Developing Countries, Sept. 2015 BIUST, Palapye, Botswana
- k. **LOC Member**, ICSU Workshop hosted by BIUST from 25th - 27th November 2013, Palapye, Botswana.
- l. **Editorial Board**, Canadian Journal on Computing in Mathematics, Engineering and Medicine
- m. **Reviewer Board member**, Journal of Computer Networks ([http\\:pubs.sciepub.com/JCNN](http://pubs.sciepub.com/JCNN))

- n. **Editorial Board Member**, International Journal of Computer Networks (IJCN)
- o. **Editorial Board Member**, Inter'l Journal of Cognitive Research in science, Engineering & Education
- p. **Editorial Board Member**, Journal of Network and Communications Technologies
- q. **Reviewer Board member**, Int'l Journal of Advanced Research in Artificial Intelligence
- r. **Reviewer Board member**, International Journal of Computing Academic Research (IJCAR)
- s. **Rapourtee**: ICT discourse: Bridging the Digital Divide, Covenant University, Ota, June 2007
- t. **Reviewer**, TEC/ABM University Diploma Programme, Electrical Engineering, Botswana
- u. **Reviewer**, TEC/ABM University, Advanced Diploma Programme, Electrical Engineering,
- v. **Reviewer**, Botho University, BSc/B.Eng Programme in Computer Engineering, Gaborone
- w. **Reviewer**, Botho University, BSc/B.Eng Programme in Electronics and Communications Engineering, Gaborone, Botswana

K. **COMMUNITY SERVICES**

1. **PATRON**, Landmark University Electrical Engineering Students Association
2. **Special Road Marshal**, Federal Road Safety Corps (**FRSC**). **Nigeria**
3. **Vice Chairman**, Nigerian in Diaspora Organization (NIDO), Botswana Chapter
4. **Member**, Research Information Management System Committee, Department of Research Science & Technology, Botswana
5. **Chairman**, Engineering Career Talk to Secondary/High School Students

L. **NATIONAL ENGAGEMENTS / SERVICES**

1. **Lead, Nigerian University Commission (NUC) Accreditation Team** of Engineering Programmes in Nigerian Universities, 2023 - till date
2. **Member, Nigerian University Commission (NUC) Accreditation Team** of Engineering Programmes in Nigerian Universities, 2018 - till date
3. **Member, Resource Verification person, Nigerian University Commission (NUC)** of Academic Programmes in Nigerian Universities, 2018 - till date
4. **Member, Accreditation Team for Council for the Regulation of Engineering Practice in Nigeria, (COREN)** 2018 - till date

M. **PUBLICATIONS**

(1) **THESES / DISSERTATIONS**

- i. **IBIKUNLE, F. A. (1986)**. "Design and Construction of a Public Address Transceiver System". **an unpublished BTech Project Report**, submitted to the Department of Electrical and Electronic Engineering, University of Science & Technology, Port-Harcourt, Rivers state
- ii. **IBIKUNLE, F. A. (1997)**. "Probabilistic Neutral Network based maximum likelihood detector for detection of spread spectrum signals in multiuser CDMA Gaussian Channel", **an unpublished PhD Thesis**, submitted to the Department of Information Engineering, Beijing University of Posts & Telecommunications, Beijing.

(2) **BOOK CHAPTER**

- **IBIKUNLE, F. A. (2013)**. WiMAX - Appropriate Technology to Provide Affordable Access to ICTs Infrastructure and Services in Developing Countries), IN-TECH Publishing, (ISBN: 978-953-7619-53-4).

(3) PUBLISHED ARTICLES

- 2023** Njoku, F.C., **Ibikunle, F.**, Adikpe, A.O., “A Review on Discontinuous Reception Mechanism as a Power Saving: Approach for 5G User Equipment at Millimetre-Wave Frequencies” 2023 International Conference on Science, Engineering & Business for Sustainable Development Goals, 2023. <https://doi.org/10.1109/seb-sdg57117.2023.10124494> **[SCOPUS INDEXED]**
- 2023** Enoch A. J, Oluwafemi I.B., Olulope P. K., **Ibikunle F. A.**, Osaji E., Ariba F. O., “A Comparative Performance Study of Support Vector Machine, KNN, and Ensemble Classifiers on through-wall Human detection Dataset” 2023 International Conference on Science, Engineering and Business for Sustainable Development Goals, 2023 <https://doi.org/10.1109/seb-sdg57117.2023.10124476>
- 2023** Masud, A.A., Uchechukwu, O.D., Adikpe, A.O., **Ibikunle, F. A.**, Mitigating Interference and Improving the SINR in a Discrete Time Frame of a Downlink MU-MIMO Transmission in 5G and Beyond Wireless” Networks” 2023 International Conference on Science, Engineering and Business for Sustainable Development Goals, 2023 <https://doi.org/10.1109/seb-sdg57117.2023.10124579>
- 2022** Enoch A. Jiya, **Frank A. Ibikunle**, Ilesanmi B. Oluwafemi, Aaron B. Adedayo, Akorede Kola-Junior, Kareem S. Babatunde, (2020), “Overview of Interference Management Techniques in 5G Cellular Networks”, 2022 IEEE Nigeria 5th Information Technology for Education and Development Conference, Abuja, 1st – 3rd Nov., 2022 [10.1109/ited56637.2022.10051504](https://doi.org/10.1109/ited56637.2022.10051504) **[SCOPUS INDEXED]**
- 2022** Kareem S. Babatunde, **Frank A. Ibikunle**, Micheal O. Arowolo, Ayodele J. Alabi, Enoch A. Jiya, Paul T. Olulope, (2022), “Machine Learning Model for Classifying Free Space Optics Channel Impairments” 2022 IEEE Nigeria 5th Information Technology for Education and Development (ITED Conference, Abuja, 1st – 3rd Nov., 2022. [10.1109/ITED56637.2022.10051228](https://doi.org/10.1109/ITED56637.2022.10051228) **[SCOPUS INDEXED]**
- 2022** Alabi Ayodele John; Olulope Paul Kehinde; **Frank A Ibikunle**; Kareem Sunday (2022), “Reliability Assessment of Omu-Aran 132/33kV Transmission Substation” 2022 IEEE Nigeria 5th Information Technology for Education and Development, Conference, Abuja, Nov 2022 **[SCOPUS INDEXED]** 2022. [10.1109/ITED56637.2022.10051228](https://doi.org/10.1109/ITED56637.2022.10051228)
- 2022** Oyinlolu Odetoye, **Francis Ibikunle**, Paul Olulope, John O. Onyemenam, Uchenna N. Okeke, “Large Scale Solar Power in Nigeria: the Case for Floating Photovoltaics”, 2022 IEEE Nigeria 4th International Conference on Disruptive Technologies for Sustainable Development (NIGERCON), page: 1 – 5, ISSN: 2377-2697. [10.1109/NIGERCON54645.2022.9803156](https://doi.org/10.1109/NIGERCON54645.2022.9803156) **[SCOPUS INDEXED]**
- 2021** Olufemi, E., Adebiyi, A., **Ibikunle, F.**, Adebiyi, M.O., Oludayo, O. (2021), “Research trends on CAPTCHA: A systematic literature”, International Journal of Electrical and computer Engineering, 11(5), pp. 4300–4312, <https://doi.org/10.11591/IJECE.V11I5.PP4300-4312> **[SCOPUS INDEXED]**
- 2020** E. Imo, A Olayanju, **F A Ibikunle** and S. Dahunsi “Impact of Small Hydropower Developments On Rural Transformation in Nigeria”, IOP Conf. Series: Earth and Environmental Science **445** (2020), <http://dx.doi.org/10.1088/1755-1315/445/1/012023> **[SCOPUS INDEXED]**
- 2020** Dickson O. Egbune, Babatunde S. Adejumbi, Isaac O. Omeiza, **Frank A. Ibikunle**, Ayodele S. Oluwole and Thokozani Shongwe, “Low-complexity detectors for cyclic structured space-time block coded spatial modulation over a slow Rayleigh fading channel”, Journal of Communications, Vol.15, no. 11, Nov 2020, <http://dx.doi.org/10.12720/jcm.15.11.818-825> <http://www.jocm.us/show-246-1610-1.html> **[SCOPUS INDEXED]**
- 2019** I. B. Oluwafemi, D. Faluru, **A. F. Ibikunle** and J. O. Adeoye, “Investigation of RF Exposure Levels from Different Mobile Telecommunication Base Stations in Ado-Ekiti, Nigeria” European Journal of Scientific Research ISSN 1450-216X/1450-202X Vol. 153 No 4 August, 2019, pp.393-402 <http://www.europeanjournalofscientificresearch.com/> <https://eprints.lmu.edu.ng/id/eprint/2778>
- 2019** A. Adewale, E. E. Ekong, **F. A. Ibikunle**, A. Orimogunje, J Abolade, “Ping-pong reduction for handover process using adaptive hysteresis margin: a methodological approach” IOP Conf. Series:

Materials Science and Engineering640 <https://iopscience.iop.org/article/10.1088/1757-899X/640/1/012118> [SCOPUS INDEXED]

- 2016 R. S. Jamisola, F. Ibikunle, “Investigating Task Prioritization and Holistic Coordination using Relative Jacobian for Combined 3-Arm Cooperating Parallel Manipulators”, Journal of Advanced Computational Intelligence and Intelligent Informatics, vol. 20 no.1, pp 117 – 123, [SCOPUS INDEXED] <https://doi.org/10.20965/jaciii.2016.p0117> https://www.jstage.jst.go.jp/article/jaciii/20/1/20_117/_pdf
- 2016 R. Jamisola, C. Mastalli, F. Ibikunle, “Modular Relative Jacobian for Combined 3-Arm Parallel Manipulators”, International Journal of Mechanical Engineering and Robotics Research, vol. 5, no.2 pp 90 – 95, April, ISSN: 1793-8201 <http://dx.doi.org/10.18178/ijmerr.5.2.90-95> [SCOPUS INDEXED] <https://www.researchgate.net/publication/295073239>
- 2015 Rodrigo S. Jamisola Jr. and Frank Ibikunle, “Investigating Task Prioritization and Holistic Coordination using Relative Jacobian for Combined 3-Arm Cooperating Parallel Manipulators”, 8th IEEE International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment, and Management, (IEEE-Sponsored), 9-12th Dec., Cebu, Philippines. <http://dx.doi.org/10.1109/HNICEM.2015.7393169> [SCOPUS INDEXED] <https://www.researchgate.net/publication/286921883>
- 2015 R. Jamisola, C. Mastalli, F. Ibikunle, “Modular Relative Jacobian for Combined 3-Arm Parallel Manipulator”, 2nd Interl Conference on Robotics and Computer Vision, Oct., 2015, Singapore. https://www.researchgate.net/publication/281459769_Modular_Relative_Jacobian_for_Combined_3-Arm_Parallel_Manipulators [SCOPUSINDEXED]
- 2015 R. Jamisola, P. Kormushev, D. Caldwell, F. Ibikunle, “Modular Relative Jacobian for Dual-Arms and the Wrench Transformation Matrix” Proceedings of the IEEE International Conference on Cybernetics and Intelligent Systems (cis) and Robotics, Automation and Mechatronics (ram) on July 15, 2015, <https://doi.org/10.1109/ICCIS.2015.7274617> WOS:000380472300080 [SCOPUSINDEXED]
- 2014 E. Adetiba, F. IBIKUNLE, S. Daramola, A. Olajide, “Implementation of Efficient Multilayer Perceptron ANN Neurons on Field Programmable Gate Array Chip”, International Journal of Engineering & Technology, vol.14, no. 1, pp.151-159. <https://www.researchgate.net/publication/260310757> <https://eprints.lmu.edu.ng/id/eprint/1402>
- 2013 IBIKUNLE F, Agbetuyi F., Ukpere G., “Face Recognition Using Line Edge Mapping Approach”, *American Journal of Electrical and Electronic Engineering*, 1 (3), pp 52-59, [SCOPUSINDEXED] <http://pubs.sciepub.com/ajeec/1/3/4/index.html> <http://dx.doi.org/10.12691/ajeec-1-3-4>
- 2013 IBIKUNLE Frank, Seun Ebisua, “Performance Analysis of Hybrid Protocols in MANETs” International Journal of Computing Academic Research, vol 2, no. 5, pp. 214-224, Oct (ISSN 2305-9184). <http://www.meacse.org/ijcar/archives/32.pdf> <https://eprints.lmu.edu.ng/id/eprint/1419>
- 2013 IBIKUNLE Frank, Eweniyi Odun, “Approach to Cyber Security Issues in Nigeria: Challenges and Solution”, International Journal of Cognitive Research in Science, Engineering and Education, vol. 1, no.1. <https://ijcrsee.com/index.php/ijcrsee/article/view/65> [SCOPUSINDEXED]
- 2013 IBIKUNLE Frank, Dike Ike, Jakpa Orunta, “Broadband Wireless Access Deployment Approach to Rural Communities”, Journal of Computer Networks, vol. 1, no. 3, pp. 38- 45. <http://pubs.sciepub.com/jcn/1/3/1/>, 10.12691/jcn-1-3-1
- 2013 Frank, Ibikunle., Ike, D., Jimi, A., & Kayode, O. (2013). Multiple-Access Technology of Choice in 3GPP LTE. International Journal of Computers & Technology, 6(2), 321–328. <https://doi.org/10.24297/ijct.v6i2.3497>
- 2013 Ibikunle Frank and Adegbenjo A., “Management Issues and Challenges in Mobile Database System” International Journal of Engineering Sciences & Emerging Technologies, vol.5, no. 1, pp.1-6, April. (ISSN: 2231-6604). Corpus ID: 86820140. <https://eprints.lmu.edu.ng/id/eprint/1408>
- 2013 Alao O, Adekunle Y, Ibikunle Frank, Shodiya A., “Culture-Based Adaptive Web Design: An Approach for Designing Culturally Customized Websites” International Journal of Scientific & Engineering

- Research, vol. 4, no. 2, Feb. (ISSN 2229-5518). Corpus ID: 8400496.
<https://eprints.lmu.edu.ng/id/eprint/1393> <https://www.researchgate.net/publication/259591194>
- 2013 Ibikunle Frank**, Oloja Segun, Esi Phillips, “Campus Network Virtualization Using Multiprotocol Label Switching Virtual Private Networks (MPLS-VPNs)”, International Journal of Applied Information Science, USA, vol.5, no.8, pp.1-9, June 2013 (ISSN: 2249-0868). <http://research.ijais.org/volume5/number8>, <https://doi.org/10.5120/ijais12-450569> **[SCOPUSINDEXED]**
- 2013 Ibikunle Frank** and Somoye A., “Radio Wave Propagation Path Loss Modelling in Mobile Communication Environment: a Case Study of Ogun-state”, Journal of Telecommunications, ISSN 2042-8839, Volume 20, Issue 1, pp. 1 – 7, May 2013. <https://vdocuments.mx/radio-wave-propagation-path-loss-modelling-in-mobile-communications-environment.html?page=1>
- 2013 IBIKUNLE F. A.**, Adefihan A, “Effectiveness of ICT in Policing in Nigeria”, Scottish Journal of Arts, Social Sciences and Scientific Studies, Vol. 2, No. 2, Pp 90 – 103, UK (ISSN: 2047-1278). <http://scottishjournal.co.uk>, <https://eprints.lmu.edu.ng/id/eprint/1394>
- 2012 IBIKUNLE Frank**, Olowononi Felix, “Application Of MIMO Technology To Systems Beyond 3G” , International Journal of Informatics and Communication Technology, vol.1, no.2, pp. 126~135, Dec. <http://dx.doi.org/10.11591/ij-ict.v1i2.1482> <https://www.oalib.com/paper/2166634>
- 2012 Adetiba, Emmanuel; Ibikunle, F. A.; Adebisi, E. F.**, “Genomics Mutations' Based Artificial Neural Network and Field Programmable Gate Array Framework for Lung Cancer Diagnosis”, Journal of Thoracic Oncology, Vol 7, Issue7, Page 5132-5133, JUL 2012. **[SCOPUSINDEXED]**
<https://www.webofscience.com/wos/woscc/full-record/WOS:000306458700063>
- 2012 Frank Ibikunle** and James Oluwafemi, “Impact of Information Technology on Nigeria Banking Industry: a case Study of Skye Bank”, International Journal of Computing Academic Research, vol.1, no.1, pp. 25~35, Oct. (ISSN: 2305-9184). <http://www.meacse.org/ijcar/archives/3.pdf>
- 2012 Kuyoro S., IBIKUNLE F, Awodele O., Abel S., (2012):** “Information Retrieval: An Overview”, International Journal of Advanced Research in Computer Science, USA, vol. 3, no. 5, pp. 175~178, (ISSN: 0976-5697). <https://www.researchgate.net/publication/259590363>
https://www.researchgate.net/publication/259590363_Information_Retrieval_An_Overview
- 2012 IBIKUNLE F**, Sarumi J, “Electronic-Governance for Nigeria: opportunities and Challenges in the Digital Era”, International Journal of Electronic Governance and Research, Vol 1 Issue 1 October 2012, pp. 77-84, <https://eprints.lmu.edu.ng/id/eprint/1395>
<https://www.researchgate.net/publication/259590538>
- 2012 Kuyoro S., IBIKUNLE Frank**, Omotunde A., Ajaegbu C., (2012): “Towards Building a Secure Computing Environment”, International Journal of Advanced Research in Computer Science, USA, vol. 3, no. 4, pp. 166~171, Aug (ISSN: 0976-5697). <https://eprints.lmu.edu.ng/id/eprint/1423>
<https://www.researchgate.net/publication/259590433>
- 2012 Kuyoro S., IBIKUNLE Frank**, Awodele O., “Security Issues in Web Services”, International Journal on Computer Science and Network Security, vol. 12 no. 1, pp. 23-27, (ISSN: 1738-7906). http://paper.ijcsns.org/07_book/html/201201/201201003.html **[SCOPUSINDEXED]**
- 2012 M. K. Luka, IBIKUNLE Frank**, Gregory Onwodi, “Neural Network Based Hausa Language Speech”, International Journal of Advanced Research in Artificial Intelligence, USA., vol. 1 no. 2, pp. 39-44 (ISSN:2165-4069). <https://dx.doi.org/10.14569/IJARAI.2012.010207> **[SCOPUSINDEXED]**
- 2012 IBIKUNLE Frank** and M. K. Luka “The Impact of ICTs on Banks: A Case study of the Nigerian Banking Industry”, International Journal of Advanced Computer Science and Applications, USA, vol. 3, no. 9, pp.145-149, <https://dx.doi.org/10.14569/IJACSA.2012.030921> **[SCOPUSINDEXED]**
WOS:000219139000021

- 2012 **IBIKUNLE F**, Zion M, "A Model for Implementing M-Banking in Developing Countries", International Journal of Engineering & Technology, vol. 2, no. 3, pp. 145-149, UK (ISSN 2049-3444). <https://eprints.lmu.edu.ng/id/eprint/1383>
- 2012 Olaniyan O.M, Mapayi T, **IBIKUNLE F. A**, "An ICT Based e-Collaborative Application for Law Enforcement Agencies in Nigeria", Computing, Information Systems & Development Informatics Journal, USA vol. 3. no. 1, pp 50-58, March **Corpus ID: 73612268**. <https://eprints.lmu.edu.ng/id/eprint/1384>
- 2012 John Samuel, Akinola Emmanuel, **Ibikunle Frank**, Ndujiuba Charles, Akinade Bayonle, "Modelling of Orthogonal Frequency Division Multiplexing for Transmission in Broadband Wireless Communications Systems" Journal of Emerging Trends in Computing and Information Sciences, vol. 3, no. 4 April, (ISSN:2079-8407) <https://eprints.lmu.edu.ng/id/eprint/1409>
- 2011 Kuyoro A. **IBIKUNLE F**, Awodele O., "Cloud Computing Security Issues and Challenges" International Journal of Computer Networks (IJCN), vol. 3, no. 5, USA (ISSN: 1985-4129). **[SCOPUSINDEXED]** <https://www.cscjournals.org/manuscript/Journals/IJCN/Volume3/Issue5/IJCN-176.pdf>
<https://portal.issn.org/resource/ISSN/1985-4129>
- 2011 **IBIKUNLE, F**, Oshin, B., "Transition Techniques of the Future Internet Protocol- IPv6", American Journal of Scientific Research, USA, Issue 33, pp. 117-126 (ISSN 1450-223X). <https://eprints.lmu.edu.ng/1424/2>
<https://www.semanticscholar.org/paper/Transition-Techniques-of-the-Future-Internet-Ibikunle-Oshin/7be4574910ff51b086762d1571005cb57cc29aaa> Corpus ID: 132268321
- 2011 **IBIKUNLE, F.A.**, S.N. JOHN, AKINOLA, E., "Online Mobile Phone Recharge System in Nigeria" European Journal of Scientific Research, UK, Vol.60, no.2, pp. 295-304 (ISSN 1450-216). **Corpus ID: 88496841**. <https://core.ac.uk/download/pdf/162155787.pdf>
- 2011 **IBIKUNLE, F. A.**, Sarumi, J.A., Shonibare, E., "Comparative Analysis of Routing Technologies in Next Generation Converged IP Network", International Journal of Engineering & Technology, vol. 11, no. 02, pp 158-169 April. ISSN: 2077-1185 (Online) <https://www.researchgate.net/publication/259591522>
<https://www.ijens.org/IJETVol11Issue02.html> <https://eprints.lmu.edu.ng/id/eprint/1392>
- 2011 John S.N., **IBIKUNLE F.A.**, Adewale A., Owokade A. L., Ajah J., "Implementation of Wi-Fi based Location Tracking System Based on Signal Strength Measurement and Artificial Neural Network", Information control systems and computer monitoring (ICSCM), Ukraine. pp. 106-112. <https://eprints.lmu.edu.ng/id/eprint/1442> <https://www.researchgate.net/publication/312121728>
- 2011 Adetiba, E., **IBIKUNLE, F. A.**, "Ensembling of EGFR Microdeletion Mutations' based Artificial Neural Networks for Improved Diagnosis of Non-Small Cell Lung Cancer", International Journal of Computer Applications, USA, Vol. 20, No.7, Pp 39 – 47, April 2011 (ISBN: 0975 – 8887). **[SCOPUSINDEXED]** <http://dx.doi.org/10.5120/2443-3298>
- 2009 **IBIKUNLE, F.A.**, "Prospects and Challenges of Wireless Technologies for Telemedicine Network Infrastructure", International Journal for the Applications of Mobile & wireless computing, vol. 1, no. 1, pp 21-33 (ISSN: 2141-0720). <https://eprints.lmu.edu.ng/id/eprint/1421>
- 2009 **IBIKUNLE, F.A.**, "Comparative Analysis of Alternative Last Mile Broadband Access Technologies (Wi-Fi & WiMAX)", The Pacific Journal of Science and Technology, vol 10, no. 1., May 2009. USA (ISSN: 1551-7624). <https://www.akamai.university/pjst-archive.html>
- 2009 **IBIKUNLE, F.A.**, "Provision of Affordable Access to ICTs Infrastructure and Services in Developing Countries", Journal of life and Physical Sciences, vol. 2, no. 1, pp 182- 187 (ISSN: 1597-1007).
- 2009 **IBIKUNLE, F. A.**, "An Artificial Neural Network Implementation of the Optimum CDMA Multi-user Detector" Journal of Nigerian Society of Engineers Technical Transactions, vol. 44, no. 2, pp 57–67 (ISSN: 11195363).

- 2009 **IBIKUNLE, F.A.**, “Information and Communication Technologies: a Potential for Sustainable Development of e-Governance in Nigeria”, Journal of life and Physical Sciences, vol. 2, no. 1, pp 15–164 (ISSN: 1597-1007).
2008. S.N. JOHN, **F.A. IBIKUNLE**, “Performance Improvement of Wireless Network Based on Effective Data Transmission,” IET Wireless, Mobile & Multimedia Networks, Jan. 2008 p. 134 – 137, Mumbai, India. IEEE Xplore Digital Library, Journal, pp61-64 (ISBN: 978-0-86341-887-7).
https://digital-library.theiet.org/content/conferences/10.1049/cp_20080163doi: [10.1049/cp:20080163](https://doi.org/10.1049/cp:20080163)
2008. **IBIKUNLE, F.A.**, S.N. John, 2008 “WiMAX- Appropriate Technology to provide Affordable Access to ICTs Infrastructure & Services in Developing Countries” IET Wireless, Mobile & Multimedia Networks, 11-12 January 2008, Mumbai, India. IEEE Xplore Digital Library Journal, 61-64, (ISBN: 978-0-86342-887-7). <http://dx.doi.org/10.1049/cp:20080145>
- 1998 **IBIKUNLE, F.A.**, “Probabilistic neural networks for multi-user detection in code divisional multiple access communication channels”, IEEE Xplore Journal, vol. 3, pp 2557-2560, USA (ISBN: 0-7803-4859-1). <https://doi.org/10.1109/IJCNN.1998.687265> <https://eprints.lmu.edu.ng/id/eprint/1539>
- 1998 **IBIKUNLE, F.A.**, “Optimum Multi-user Signal Detector in SSMA Communications Systems based on Neural Networks”, IEEE Xplore Digital Library Journal, vol. 3, pp 868- 872, October 1998, S/Africa (ISBN: 0-7803-4281), <http://dx.doi.org/10.1109/ISSSTA.1998.722502> **[SCOPUSINDEXED]**

(4) CONFERENCE PROCEEDINGS

- 2020 M.M. Ashafa, **Frank Ibikunle, A.** Olayanju, “Micro-grid and Smart-Grid: An Alternative Framework for Renewable Energy”, International Conference on Energy and Power Systems Operation and Planning (ICEPSOP), January 20-22, 2020, Abuja, Nigeria
- 2015 Mompoloki Pule, Abid Yahya, Rodrigo Jamisola, **Frank Ibikunle** (2015), “Real-Time Monitoring of Drinking Water Quality in Botswana Employing Wireless Sensor Networks: An Overview”, BIE International Conference, 6– 8 Oct., Gaborone, Botswana, 2015.
- 2015 Mompoloki Pule, Rodrigo Jamisola, **Frank Ibikunle**, “Energy Requirements in Cryptographic Mechanisms for Secure Wireless Sensor Networks: An Overview”, International Conference on Clean Energy for Sustainable Growth In Developing Countries, Palapye, Botswana, Sept 26 - 28, 2015.
<https://www.researchgate.net/publication/281459697>
- 2014 **Ibikunle Frank**, “Toward Achieving Sustainable Infrastructural Development in Africa”, Proceeding of the World Engineering Conference on Sustainable Infrastructure, 2–7 Nov., Abuja
<http://www.wfeo.org/wecsi2014-proceedings>
- 2012 Isaac S., Katende J., **Ibikunle F.**, “Voltage collapse and Nigeria Nation Grid”, Proceedings of the 2nd EIE Int’l, Conf. on Computing, Energy, Networking and Telecoms, Covenant University, Nov. 21- 23.
<https://core.ac.uk/download/pdf/12356606.pdf> <http://eprints.covenantuniversity.edu.ng/967/1/>
- 2009 **IBIKUNLE, F. A.**, “Global Economic Meltdown in Nigeria: ICTs Strategies”, Proceedings of the International conf. & AGM of Nigerian Society of Engineers, Owerri, Dec.
- 2009 **IBIKUNLE, F. A.**, “ICTs and Poverty Alleviation in Rural and Developing Countries of Africa” Proc. of the World Congress on ICT for Development (WCID2009), Beijing, China
- 2008 **IBIKUNLE, F.A.** “Role of Information and Communication Technologies (ICTs) in Nigeria’s Development: emphasis on Governance”, Proceedings of the International conference & AGM of Nigerian Society of Engineers, Bauchi, pp. 275- 294, Dec.
- 2007 **IBIKUNLE, F.A.**, “Microwave Radio Systems: Effective Telecommunications Infrastructure Development”, Proceedings of the International conference and Exhibition on Power and Telecommunications (ICEPT), The Nigerian Institution of Electrical and Electronics Engineers, Lagos, Nigeria, pp. 23- 29, Oct.

- 2007 **IBIKUNLE, F.A.** “GSM network Architecture”, Proceedings of the International conference and workshop on third generation (3G) GSM & Mobile Computing, Covenant University, Ota, pp 21- 33, Jan. 2007, ISBN:978-37963-2-1, http://eprints.covenantuniversity.edu.ng/2/1/3gsMc_2007.pdf
<http://eprints.covenantuniversity.edu.ng/id/eprint/2>
- 2007 **IBIKUNLE, F.A.** “Control of GSM Radio Resources”, Proc of International conference and workshop on third generation (3G) GSM & Mobile Computing, Covenant University, pp 47- 56, Jan. 2007, ISBN 978-37963-2-1. http://eprints.covenantuniversity.edu.ng/2/1/3gsMc_2007.pdf
<http://eprints.covenantuniversity.edu.ng/id/eprint/2>
- 1999 **IBIKUNLE, F.A** “NITEL Internet Gateway and Services: Its opportunities and Prospects in the new Information Age”, Proceedings of the International Internet Society- (ISOC NIG) Conference, Port Harcourt, pp. 61- 73, Jan. <http://www.isocnig.org.ng/ConferencePapers/paper11.htm>
<https://www.isocnig.org.ng/ConferencePapers/paper11.htm>

N. **BOOKS EDITED**

- 1) Proceedings of the 1st International EIE Conference on Computer, Energy, Network & Telecommunications, Covenant University, Ota, 2011
- 2) Proceedings of the 2nd International EIE Conference on Computer, Energy, Network & Telecommunications, Covenant University, Ota, 2012

O. **INVITATIONS, TECHNICAL REPORTS AND PUBLIC LECTURES**

i) **PUBLIC LECTURES**

- 1) **Invited Speaker** 5TH PUBLIC LECTURE, Landmark University 15th July, 2022, Omu aran, Kwara
- 2) **Guest Speaker:** NSE Omu-aran Branch, 30th Ordinary General Meeting, 27th May, 2021, Omu-aran
- 3) **Guest Speaker:** NSE Omu-aran Branch, 30th Ordinary General Meeting, 27th May, 2021, Omu-aran
- 4) **Guest Speaker,** NSE Bwari Branch, Ordinary General Meeting, 15th October, 2020, Abuja
- 5) **Guest Speaker,** Unilorin Engineering Graduates’ Membership Induction Ceremony, Ilorin, Oct. 2018
- 6) **Invited Speaker:** “Embracing Digital Economy: Fostering New Business Models and Service Packages”, ICT PITSO 2015, Gaborone, August. 2015
- 7) **Invited Speaker:** “Improving Organizational Productivity Levels Through Broadband: Unleashing The Power Of Broadband”, ICT PITSO, Gaborone, 5th Sept. 2014
- 8) **Special Guest Speaker:** International Conference and workshop on Third Generation (3G) GSM & Mobile Computing, Covenant University, Ota, January, 2007
- 9) **Guest Speaker:** “Building the African Information Superhighway: Appropriate and Applicable Technologies for Internet Services”, Afrinet’99 Summit, ECOWAS Secretariat, May 1999.
- 10) **Invited Speaker:** ‘Radio Planning and Deployment Process’, Redeemer’s University, Mowe, Ogun-state

ii) **TECHNICAL REPORTS**

- 1) **NSE Fellowship Grade:** Technical report submitted to The Nigerian Society of Engineers (NSE) for Elevation to Fellowship Grade of the Society by direct application. March 2020
- 2) **Professional Engineering Experience:** Technical report submitted to Council for the Regulation of engineering in Nigeria (COREN) for professional registration. March 2010
- 3) **Postgraduate Engineering Experience:** Technical report submitted to the Nigerian Society of Engineers (NSE) for Corporate membership registration July 2007

P. **CONFERENCES / WORKSHOPS ATTENDED**

- 1) Nigerian Society of Engineers (NSE)' National Engineering Conference & AGM, Abuja, 2022
- 2) 2022 Annual Conference & Annual General Meeting of Nigerian Hydropower Professional Association (NHPA), Abuja, Nigeria, 24th - 26th October, 2022
- 3) C.O.R.E.N 30TH Engineering Assembly, I.C.C., Abuja, 8th – 10st August, 2022.
- 4) The Nigeria Energy Forum (NEF), Lagos, August, 2022,
- 5) Nigerian Society of Engineers' National Engineering Conference & AGM, Abuja, Dec 2021
- 6) C.O.R.E.N 29TH Engineering Assembly, I.C.C., Abuja, 11th – 21st August, 2021.
- 7) The Nigerian Society of Engineers' National Engineering Conference & AGM, Abuja, 2020
- 8) C.O.R.E.N 28TH Engineering Assembly, I.C.C., Abuja, 19th – 21st August, 2020.
- 9) The Nigerian Society of Engineers' National Engineering Conference & AGM, Kano, 2019
- 10) Nigerian Alternative Energy Expo, Yar-Adua Conference Centre, Abuja, 15th – 17th Oct. 2019
- 11) C.O.R.E.N 27TH Engineering Assembly, I.C.C., Abuja, 19th – 21st August, 2019.
- 12) International Power Engineering Exhibition & Conference, IPECON 2019, 15th – 18th July, 2019, Abuja
- 13) 7th International Conference on Rice for Food, Market & Development, 22th – 24th July, 2019
Raw Materials Research and Development Council, Abuja
- 14) The Nigerian Society of Engineers' National Engineering Conference & AGM, Abuja, Nov 2018,
- 15) C.O.R.E.N 26TH Engineering Assembly, I.C.C., Abuja, 6th – 8th August, 2018.
- 16) International Centre for Atomic Energy Regulation & Nuclear Power Resource Development,
“Colloquium on Energy & Power Crises, Nuclear Power Resources Development, Electricity
Generation, Renewable Energy Engineering and Chemical Security” E.S.U, CAS Campus,
Abakaliki, 27th -29th March, 2018
- 17) The Nigerian Society of Engineers' National Engineering Conference & AGM, Abuja, Nov 2017.
- 18) International Conference on Clean Energy for Sustainable Growth in Developing Countries, Palapye,
Botswana, Sept 26 - 28, 2015.
- 19) 1st World Invention and Innovation Forum, Yancheng, China. 21st – 25th Sept 2015
- 20) Int'l Conference on Soil and Groundwater Environment, 28th – 30th April, 2014, Seoul, S/Korea
- 21) The ITU's sixth World Telecommunication Development Conference, Dubai, United Arab Emirates, 30th
March – 10th April 2014
- 22) IST-Africa Horizon 2020 and Living Labs Workshops, 21st - 22nd Nov. 2013, Gaborone, Botswana
- 23) ICSU Workshop hosted by BIUST from 25th - 27th November 2013, Palapye, Botswana.
- 24) Innovation Africa 2013, Grand Palm, Botswana, (15 – 17)th October, 2013
- 25) 2nd EIE Int'l, Conf. On Computing, Energy, Networking and Telecommunication, Covenant University,
Nigeria, November 21 – 23, 2012.
- 26) First EIE Int'l, Conf. On Computing, Energy, Networking and Telecommunication, Covenant
University, Nigeria, September 13 – 15, 2011.
- 27) International Conf. on ICT for Africa, Ota, Nigeria, 23rd – 26th March 2011
- 28) Nigerian Society of Engineers' National Engineering Conference & AGM, Dec. 2009, Owerri.

Q. MEMBERSHIP OF LEARNED SOCIETIES / PROFESSIONAL BODIES

- | | |
|--|--------------------|
| 1) FELLOW , Nigerian Society of Engineers (FNSE), | No.17913 |
| 2) FELLOW , Nigerian Institution of Power Engineers (FNIFE), | No.000235 |
| 3) Member , Council for the Regulation of Engineering in Nigeria (COREN) | R. 18,122 |
| 4) Member, Institute of Electrical Electronics Engineers (MIEEE) | No.40270081 |
| 5) Member , Nigeria Institute of Electrical & Electronics Engr.(MNIEEE) | No. 01271 |
| 6) Member , Internet Society Int'l Chapter. (ISOC), | No. 1337500 |
| 7) Corporate Member , Nigeria Institute of Management (MNIM) | No. 55577 |
| 8) Board Member , Nigeria Hydro Power Association (MNHPA) | No. 0015E |

R. CURRENT RESEARCH

a) Artificial Intelligence/ Machine Learning /Deep Learning applications

Research is conducted using Artificial Intelligence (AI) Algorithms:

- to developing transformative technologies to improve the society in the field of Wireless Communications, Agriculture, Renewable energy, Recognitions, Smart living
- to provide Data-centric solutions that help solve complex problems and transform or reinvent technology and business

b) Communications and Signal Processing

This research area focus on the efficient processing and transmission of data, and investigation of the techniques that transmit ever increasing data rates with multiple users while consuming less radio frequency spectrum and transmitted signal power. The signal processing research includes processing blurry images, recognition of features in images, efficient coding of signals and images into data, and algorithms for implementation of communications modulation and coding techniques. Techniques such as multiple antennas, spread spectrum, software radios, modulation and error control coding schemes, sensor networks, and ultra-wideband radio are areas of focus.

c) Mobile & Wireless Communications Systems

The requirements imposed on future broadband wireless access systems include support of high data rates, operation in a hostile multipath environment, provision of various QoS levels, and minimal consumption of the limited resources such as bandwidth and transmit power. My focus is on these most promising access technologies that satisfy these demands stated which include: Orthogonal Frequency Division Multiple, Multiple Input Multiple Output (MIMO), WiFi, 5G Networks and beyond

d) Internet of Things (IoT) and Smart System applications

Research focus is in Internet of Things and Smart System applications, sensors and sensor networks, mobile devices, Robotics, Wireless Communication technologies. The Internet of Things (IoT) offers great potential to design new or upgrade existing products for a wide range of applications. Not only commercial products will benefit from new IoT innovations, but also industrial applications and systems. The research aim is to transfer knowledge and research results to cooperation partners, industry supporters and students.

S. GRANTS

1. World Bank Research grant through the National University Commission (NUC) for the Covenant Applied Informatics and Communications, Africa Centre for Excellence (CApIC-ACE), Awarded on the 13th November 2018, to run from 2019 – 2024 - **6 Million Dollars**

U. CAREER PLAN AND PROGRESSION

- **Immediate Career Goal:** To become an expert and specialist in my research areas
- **Mid-term Career Goals:**
 - i.) To keep publishing my research findings in referred International journals.
 - ii.) To patent my research findings and partner with the industry to turn my research findings into usable products.
 - iii.) To attend professional and academic conferences on a regular basis in order to present my research findings among scholars & professionals;
 - iv.) to attract collaborators for cross-field and cross border researches and linkages.
 - v.) To be more effective and efficient in teaching using modern ICT driven teaching aids.
- **Long Term Career Goals:**
 - i.) To keep extending the frontier of knowledge in my field of specialization both academically and professionally.
 - ii.) To author and publish more journals and books that will enlighten and inspire students in the areas of Artificial Intelligence/ Machine learning, Applications of IoTs, 5G Wireless Communications networks and beyond, Computer Networking, Energy Sources

V. TRAININGS / COURSES ATTENDED

1. Advanced Digital Appreciation Programme for Tertiary Institutions (**ADEPTI**), Digital Skills, Cyber security and Emerging Technologies, by Digital Bridge Institute, Abuja. May, 2023
2. Advanced Digital Appreciation Programme for Tertiary Institutions (**ADAPTI**), Statistical Package for, by Digital Bridge Institute, Abuja. 2019
3. **PLC & SCADA Automation Training, Johannesburg, South Africa** **2014**
4. Train -the -Trainer's Workshop, Nigerian Institute for Training & Development, 2000
5. **Nigerian Institute of Policy and Strategic Studies (NIPSS), Badagry, Lagos** **2001**

6. **UNIX/SOLARIS:** UNDP: Internet Initiative for Africa (IIA) Project **2000**
 Fundamental of Solaris (EU-118)
 Solaris System Administration 1 (SA-235)
 Solaris System Administration 11 (SA-286)

7. **MICROSOFT WINDOWS** 2000
 - Configuration and administering windows NT Server & Workstation
 - Creating and configuring a Web Server using Internet Information System (IIS) 4.0.
 - Network Essentials
 - Supporting Windows NT Server 4.0–Core Tech
 - Internetworking TCP/IP on Windows NT Server
 - Supporting a Network Infrastructure using Microsoft Windows 2000

8. **CISCO ROUTERS** 2000
 - Introduction to Cisco Router Configuration
 - Interconnecting Cisco Network Devices
 - Advanced Cisco Router Configuration
 - Cisco Internetworking Troubleshooting (CIT)

9. **IT SECURITY**

- Internetworking Security-Firewall
- Information Technology Security

10. **E-COMMERCE/BUSSINESS**

2000

- Web Design and Development
- E- Commerce/Business on Internet



ENGR. PROF. AYOLEKE F. IBIKUNLE, FNSE, FNIPE, MIEEE, MNIM