

CURRICULUM VITAE

NAME: FRANCIS AYO **IBIKUNLE**, *FNSE, FNIPE, Reg COREN, MNIM*

SEX: Male

State: Ogun State

NATIONALITY: Nigerian

MARITAL STATUS: Married

CURRENT CONTACT ADD: Electrical Information Engineering Department,
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Landmark University, Omu aran, Kwara State

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Google Scholar link: <https://scholar.google.com/citations?hl=en&user=p0bA9yIAAAAJ>

A. EDUCATIONAL BACKGROUND

i. SCHOOLS ATTENDED WITH DATES

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

ii. ACADEMIC QUALIFICATIONS WITH DATES

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

D. 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) Excellence Teaching Prowess Award by College of Science & Engineering, LMU, 2018
- 9) Exemplary Leadership Award as HoD, Electrical & Information Engineering Dept., 2017/18
- 10) Leadership Award as HoD, Electrical Engineering Department, 2018/2019
- 11) Award of Excellence as PATRON, LUEESA, Omuaran, 2018/2019
- 12) Meritorious Service Award as Chairman of Nigerian Society of Engineers, Omuaran Branch
- 13) Conferment of **FELLOW** of the Nigerian Institution of Power Engineers (**FNIPE**), 2020
- 14) Conferment of **FELLOW** of the Nigerian Society of Engineers, Abuja - 2020

C. INDUSTRY WORKING EXPERIENCES (Eighteen years of field/industry work experience)

- 1) **NYSC:** Nigerian Telecoms Ltd (NITEL), HQ, Owerri, Imo State (1986 – 1987)
- 2) **Engineer1:** Nigerian Telecoms Ltd (NITEL), Marina, Lagos. (1988 – 1993)
- 3) **Manager,** (Internet Services Unit) NITEL, Odunlami, Lagos (1998 – 2000)
- 4) **IT Instructor:** NITEL Engineering/Technology Training Centre, Oshodi. (2000 – 2002)
- 5) **Senior Manager:** GSM Operations, Nigerian Mobile Telecoms (M-TEL), Abuja. (2002 – 2004)
- 6) **DGM/Head (NQM):** Nigerian Mobile Telecoms (M-TEL), GSM Operations, Abuja (2004-2006)

B. 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. Data Communications & Computer Networks | EIE418 |
| 3. Electrical Measurement and Instrumentation | EIE319 |
| 4. Internet of Things (IoT) | IoT412 |
| 5. Research Methodology | EIE510 |
| 6. Digital Signal Processing | EIE527 |
| 7. Electric Circuit 2 | EIE324 |
| 8. Software Development Techniques | EIE 326 |

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) Artificial Neural Networks (ANN) | EIE825 |

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	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

- 2007-2013 Covenant university, Ota - **50 Students**
- 2017-2022 Landmark University, Omu aran, - **35 Students**

Completed - 85 final year projects

II. MASTERS DEGREE SUPERVISIONS **10 MSc / MEng**

III. PH.D DEGREE SUPERVISIONS **5 Ph.D**

COMPLETED RESEARCH PROJECTS (UN-PUBLISHED)

- Development of Farm Crop Disease detector and remedy using Deep Learning Method
- Wireless Technology and Network Infrastructure for a Local Government Election
- Design and Construction of an RFID Reader for Security
- Design and Implementation of Intranet Portal for Electrical and Information Engineering Department
- Design and Implementation of Infrared Based Digital Attendance Counter System
- Artificial Neural Networks Applied to Road Traffic Sign Recognition
- Modelling and Simulation of a Wireless (WIFI and WIMAX) Communication System using MATLAB
- Design of a Speaker Recognition System for Restricted Access Using ANNs
- Development of a GSM controlled display system for LMU farm.
- Design and development of a metal detection circuit for LMU farm and environment
- Design and construction of an automated fish pond
- Design and construction of an automatic electric fence for Rabbit Ranch

F. ADMINISTRATIVE EXPERIENCES/ RESPONSIBILITIES

➤ **INDUSTRY LEVEL**

- Deputy General Manager**, (Network Quality Management) MTel Ltd, Abuja. 2004 -2006
- Head/Manager**, NITEL Internet Service Unit, Hqs, Abuja. 1998 - 2001
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➤ **UNIVERSITY LEVEL**

- iv. **Governing Council Member**, Botswana International University of Science & Technology (BIUST), Botswana, 2013 - 2015
- v. **Board Member**, Landmark University Waste-to-Wealth & Energy Initiative (LUWWEI), 2019-2021
- vi. **Director**, Landmark University Waste-to-Wealth & Energy Initiative (LUWWEI), 2019-2021
- vii. **Senate Member**, Landmark University, Omuaran, 2017- till date
- viii. **Senate Member**, Curriculum Development Committee, Landmark University, 2019- to date
- ix. **Chairman (Alternate)**, Landmark University Strategic Planning Committee, 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 2014 -2016
Group, Electrical, Computer and Telecoms Engineering Department, BIUST,
- 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
- xxviii. **Vice Chancellor Representation**, Nigerian University Convocation Ceremonies 2018 – 2021
- xix.

➤ **COLLEGE LEVEL**

- xx. **Member**, College Board Advisory Committee, Landmark university, 2017- till date
- xxi. **Member**, College Examiners Board Committee, Landmark University, 2017- till date
- xxii. **Chairman**, College Task Force Committee, BIUST, Botswana, 2014
- xxiii. **Chairman**, BIUST ICT Committee, Nov 2013 – 2015
- xxiv. **Chairman**, BIUST Website Development Committee 2015
- xxv. **Member**, Covenant University ICT & Webometric Committee, 2007 - 2013.
- xxvi. **Chairman**, Publication Sub-Committee, 1st EIE Int'l Conference (eieCon2011) on C.E.N.T., Covenant University, Nigeria, 13-15 Sept 2011,
- xxvii. **Chairman**, Publication Sub-Committee, 2nd EIE Int'l Conference (eieCon2012), 21-23 Covenant University, Nigeria Nov 2012,
- xxviii.

➤ **DEPARTMENTAL LEVEL**

- xxix. **HOD**, Electrical, Computer & Telecoms Engineering Dept., BIUST, Botswana, 2014 – 2016
- xxx. **HOD**, Electrical & Information Engineering Dept., Landmark University, Omuaran, 2017 – 2019
- xxxi. **Chairman**, Departmental Curriculum Development Committee, Landmark University, 2020-to date
- xxxii. **Chairman**, Departmental Appointment & Promotions Committee, Landmark Univ., 2018-to date
- xxxiii. **Chairman**, Departmental Board of Studies, Landmark University, 2017- to date
- xxxiv. **Chairman**, Departmental Postgraduate Board of Examiners, Landmark Univ., 2017–to date
- xxxv. **Chairman**, Departmental Research Committee, Covenant University, 2012- 2013
- xxxvi. **Chairman**, Departmental ICT and Webometric Committee, Covenant University, 2012 - 2013
- xxxvii. **Member**, Departmental Appointment & Promotions Committee, Covenant University, 2010-2013
- xxxviii. **Coordinator**, Electrical Engineering Department Laboratory, Covenant University 2009-2012
- xxxix. **Chairman**, Departmental ICT and Webometric Committee, Covenant, 2012
- xl. **Chairman**, Departmental Curriculum Development Committee, Covenant, 2008 - 2011
- xli. **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, 2010 2012

G. EXTERNAL EXAMINERSHIP / ASSESSORHIP

➤ **EXAMINERSHIP**

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

➤ **ASSESSORHIP**

- viii. **Assessor, Reader:** Department of Electrical and Electronics Engineering, Ladoke Akintola University of Technology, Ogbomosho, Nigeria 2021
- ix. **Assessor, Professor:** Department of Electrical and Electronics Engineering, Ladoke Akintola University of Technology, Ogbomosho, Nigeria 2022

H. **PROFESSIONAL SERVICES / REVIEWER**

- a. **Board Member,** Nigerian Hydro-Power Professional Association (NHPA), 2019 to date
- b. **Protom Chairman,** Nigerian Society of Engineers, Omuaran 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. **Editorial Board,** Canadian Journal on Computing in Mathematics, Engineering and Medicine
- f. **Reviewer Board member,** Journal of Computer Networks (<http://pubs.sciepub.com/JCNN>)
- g. **Editorial Board Member,** International Journal of Computer Networks (IJCN)
- h. **Editorial Board Member,** Inter'l Journal of Cognitive Research in science, Engineering & Education
- i. **Editorial Board Member,** Journal of Network and Communications Technologies
- j. **Reviewer Board member,** Int'l Journal of Advanced Research in Artificial Intelligence
- k. **Reviewer Board member,** International Journal of Computing Academic Research (IJCAR)
- l. **Rapporteur:** ICT discourse: Bridging the Digital Divide, Covenant University, Ota, June 2007
- m. **Reviewer,** TEC/ABM University Diploma Programme, Electrical Engineering, Botswana
- n. **Reviewer,** TEC/ABM University, Advanced Diploma Programme, Electrical Engineering,
- o. **Reviewer,** Botho University, BSc/B.Eng Programme in Computer Engineering, Gaborone
- p. **Reviewer,** Botho University, BSc/B.Eng Programme in Electronics and Communications Engineering, Gaborone, Botswana
- q. **Chairman,** ICT Sub-Committee, 20th NIAE International Conference and AGM, Omu aran
- r. **Member,** Central Organizing Committee, 20th NIAE International Conference and Annual General Meeting, "Omu Aran 2019", 16th – 20th Sept. 2019.
- s. **Member, Local Organizing Committee (LOC),** International Conference on 'Clean Energy for Sustainable Growth in Developing Countries, Sept. 2015 BIUST, Palapye, Botswana
- t. **Member, Local Organizing Committee (LOC)** ICSU Workshop hosted by BIUST from 25th - 27th November 2013, Palapye, Botswana.

I. **COMMUNITY SERVICES**

1. **PATRON**, Landmark University Electrical Engineering Students Association
2. **Vice Chairman**, Church Board, Winners Chapel International, Palapye
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
6. **Pastor**, Living Faith Church, (aka Winners Chapel), Nigeria.
7. **Special Road Marshal**, Federal Road Safety Corps (**FRSC**).

J. NATIONAL ENGAGEMENTS / SERVICES

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

K. 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

- 2021 Olufemi, I.E., Adebisi, A.A., **Ibikunle, F.A.**, Adebisi, M.O., Oludayo, O.O. (2021), “Research trends on CAPTCHA: A systematic literature”, International Journal of Electrical and Computer Engineering, 11(5), pp. 4300–4312
- 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) 012023, doi:10.1088/1755-1315/445/1/012023
- 2020 Dickson O. Egbun, Babatunde S. Adejumbi, Isaac O. Omeiza, **Frank A. Ibikunle**, Ayodele S. Oluwale and Thokozani Shongwe, “Low-complexity detectors for cyclic structured space-time block coded spatial modulation over a slow Rayleigh fading channel”, Journal of Communications
- 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>

- 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 Engineering 640 (2019) 012118 IOP Publishing doi:10.1088/1757-899X/640/1/01211
- 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, (www.researchgate.net/publication/291327775)
- 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://kormushev.com/papers/Jamisola_CIS-RAM-2015.pdf
- 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 (IF: 0.847), vol.14, no. 1, pp. 151 – 159.
- 2013 **IBIKUNLE F**, Agbetuyi F., Ukpere G., ”Face Recognition Using Line Edge Mapping Approach”, American Journal of Electrical & Electronic Engineering, vol. 1, no. 3, pp. 52-59
- 2013 **IBIKUNLE Frank**, Seun Ebisua, “Performance Analysis of Hybrid Protocols in MANETs” International Journal of Computing Academic Research (IF: 0.453), vol 2, no. 5, pp. 214-224, Oct (ISSN 2305-9184). <http://www.meacse.org/ijcar/archives/32.pdf>
- 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 (ISSN: 2334-8496).
- 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/>
- 2013 **IBIKUNLE Frank**, Dike Ike, Ajayi J., Onasoga K., “Multiple-Access Technology of Choice In 3GPP LTE”, International Journal of Computers & Technology, vol. 6, no.2, pp. 321- 328, Jan.
- 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: 2231-66040).
- 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).
- 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 (ISSN: 2249-0868). <http://research.ijais.org/volume5/number8>
- 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.
- 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).
- 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. (ISSN: 2252-8776). <http://www.iaesjournal.com/online/index.php/IJICT/article/view/1482>
- 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.slideshare.net/georgeviene/skye-bank>
- 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).
- 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, no. 1, pp. 77-84
- 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, Jul-Aug (ISSN: 0976-5697).

- 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
- 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).
- 2012 **IBIKUNLE Frank** and M. K. Luka “The Impact of ICTs on Banks”, International Journal of Advanced Computer Science and Applications, USA, vol. 3, no. 9, pp.145-149, (ISSN: 2156-5570).
- 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). http://iet-journals.org/archive/2012/march_vol_2_no_3/174123132821241.pdf
- 2012 Olaniyan O.M, Mapayi T, **IBIKUNLE F. A.**, “Implementation of 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.
- 2012 John Samuel, Akinola Emmanuel, **Ibikunle Frank**, Ndujiuba Charles, Akinade Bayonle, “Modelling of Orthogonal Frequency Division Multiplexing (OFDM) for Transmission in Broadband Wireless Communications Systems” Journal of Emerging Trends in Computing and Information Sciences, vol. 3, no. 4 (ISSN: 2079-8407).
- 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). <http://www.cscjournals.org/library/manuscriptinfo.php?mc=IJCN-176>
- 2011 **IBIKUNLE, F**, Oshin, B., “Transition Techniques of the Future Internet Protocol- IPv6”, American Journal of Scientific Research, USA, no. 33, pp. 50-58 (ISSN 1450-223X).
- 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). <https://pdfs.semanticscholar.org/c6c2/c6e50b79fafaef10f4bbe21c967e0859203ff.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 (ISSN: 2077-1185).
- 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), pp. 106-112.
- 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 (ISBN: 0975 – 8887).
- 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).
- 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, USA (ISSN: 1551-7624). http://kormushev.com/papers/Jamisola_CIS-RAM-2015.pdf
- 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, IEEE Xplore Digital Library Journal, pp 61-64 (ISBN: 978-0- 86341-887-7)
- 2008 **IBIKUNLE, F.A.**, “WiMAX- Appropriate Technology to provide Affordable Access to ICTs Infrastructure & Services in Developing Countries” IET Wireless, Mobile & Multimedia Networks, IEEE Xplore Digital Library Journal, pp. 61-64, (ISBN: 978-0-86342-887-7).

- 1998 **IBIKUNLE, F.A.**, “Probabilistic neural networks for multi-user detection in code divisional multiple access communication channels”, IEEE Xplore Digital Library Journal, vol. 3, pp 2557-2560, USA (ISBN: 0-7803-4859-1).
- 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, S/Africa (ISBN: 0-7803-4281).

(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 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://ieeexplore.ieee.org/abstract/document/7393169/>
- 2015 Rodrigo J. C. Mastalli, **F. Ibikunle**, “Modular Relative Jacobian for Combined 3-Arm Parallel Manipulators”, 2nd International Conference on Robotics and Computer Vision, Oct., Singapore 2015.
- 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.
- 2015 R. Jamisola, P. Kormushev, D. Caldwell, **F. Ibikunle**, “Modular Relative Jacobian for Dual-Arms and the Wrench Transformation Matrix” 7th IEEE International Conference on Cybernetics, Intelligent Systems, Robotics, Automation and Mechatronics, Angkor Wat, Cambodia, 15-17 July, 2015.
- 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>
- 2012 Adetiba E., **F. Ibikunle**, Adebisi E., “Genomics Mutations’ based Artificial Neural Network Ensemble and Field Programmable Gate Array Framework for Lung Cancer Diagnosis” First IEEE Healthcare Technology Conference: Translational Engineering in Health & Medicine of the IEEE Engineering in Medicine and Biology Society, Houston, TX, Nov. 7-9.
- 2011 **IBIKUNLE F.**, Sarumi J., Adefihan B., “Information and Communication Technology (ICT): it’s Effectiveness in Policing”, Proceedings of the 1st EIE Int’l, Conf. on Computing, Energy, Networking and Telecommunications, Covenant University, Ota, Nigeria, Sept. 13- 15.
- 2011 **IBIKUNLE Frank**, Nwokediuko A., Esinaulo C., “ICT: a Potential for Education Development in Nigeria”, Proceedings of the 1st EIE Int’l, Conf. on Computing, Energy, Networking and Telecom, Covenant University, Nigeria, Sept.13– 15.
- 2011 Adetiba E., Eke J., **IBIKUNLE F.**, “Ensembling of EGFR Deletion Mutations-based Artificial Neural Networks: an informatics Platform for Improved Diagnosis of Non-Small Cell Lung Cancer”, Proceedings of the 1st EIE Int’l, Conf. On Computing, Energy, Networking and Telecommunication, Covenant University, Ota, Sept. 13-15, Nigeria
- 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>

L) 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

L. TECHNICAL REPORTS AND PUBLIC LECTURES

i) PUBLIC LECTURES

- 1) **Guest Speaker:** NSE Omu-aran Branch, 30th Ordinary General Meeting, 27th May, 2021, Omu-aran
- 2) **Guest Speaker:** NSE Omu-aran Branch, 30th Ordinary General Meeting, 27th May, 2021, Omu-aran
- 3) **Guest Speaker,** NSE Bwari Branch, Ordinary General Meeting, 15th October, 2020, Abuja
- 4) **Guest Speaker,** Unilorin Engineering Graduates' Membership Induction Ceremony, Tanke, Ilorin, Oct. 2018
- 5) **Invited Speaker:** "Embracing Digital Economy: Fostering New Business Models and Service Packages", ICT PITSO 2015, Gaborone, August. 2015
- 6) **Invited Speaker:** "Improving Organizational Productivity Levels Through Broadband: Unleashing The Power Of Broadband", ICT PITSO, Gaborone, 5th Sept. 2014
- 7) **Guest Speaker:** "Building the African Information Superhighway: Appropriate and Applicable Technologies for Internet Services", Afrinet'99 Summit, ECOWAS Secretariat, May 1999.
- 8) **Invited Speaker:** 'Radio Planning and Deployment Process', Redeemer's University, Mowe, Ogun-state
- 9)

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 Experience:** Technical report submitted to The Nigerian Society of Engineers (NSE) for Corporate membership registration July 2007

M. CONFERENCES / WORKSHOPS ATTENDED

- 1) The Nigerian Society of Engineers' National Engineering Conference & AGM, Abuja, 2021
- 2) C.O.R.E.N 30TH Engineering Assembly, I.C.C., Abuja, 19th – 21st August, 2021.
- 3) The Nigerian Society of Engineers' National Engineering Conference & AGM, Abuja, 2020
- 4) C.O.R.E.N 29TH Engineering Assembly, I.C.C., Abuja, 19th – 21st August, 2020.
- 5) The Nigerian Society of Engineers' National Engineering Conference & AGM, Kano, 2019
- 6) Nigerian Alternative Energy Expo, Yar-Adua Conference Centre, Abuja, 15 17 Oct. 2019
- 7) C.O.R.E.N 28TH Engineering Assembly, I.C.C., Abuja, 19th – 21st August, 2019.
- 8) International Power Engineering Exhibition & Conference, IPECON 2019, 15th – 18th July, 2019, NSE HQ, Abuja
- 9) 7th International Conference on Rice for Food, Market & Development, 22th – 24th July, 2019 Raw Materials Research and Development Council, Abuja
- 10) The Nigerian Society of Engineers' National Engineering Conference & AGM, Nov 2018, Abuja.
- 11) C.O.R.E.N 27TH Engineering Assembly, I.C.C., Abuja, 6th – 8th August, 2018.
- 12) 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

- 13) The Nigerian Society of Engineers’ National Engineering Conference & AGM, Abuja, Nov 2017.
- 14) International Conference on Clean Energy for Sustainable Growth in Developing Countries, Palapye, Botswana, Sept 26 - 28, 2015.
- 15) 1st World Invention and Innovation Forum, Yancheng, China. 21st – 25th Sept 2015
- 16) Int’l Conference on Soil and Groundwater Environment, 28th – 30th April, 2014, Seoul, S/Korea
- 17) The ITU's sixth World Telecommunication Development Conference, Dubai, United Arab Emirates, 30th March – 10th April 2014
- 18) IST-Africa Horizon 2020 and Living Labs Workshops, 21st - 22nd Nov. 2013, Gaborone, Botswana
- 19) ICSU Workshop hosted by BIUST from 25th - 27th November 2013, Palapye, Botswana.
- 20) Innovation Africa 2013, Grand Palm, Botswana, (15 – 17)th October, 2013
- 21) 2nd EIE Int’l, Conf. On Computing, Energy, Networking and Telecommunication, Covenant University, Nigeria, November 21 – 23, 2012.
- 22) First EIE Int’l, Conf. On Computing, Energy, Networking and Telecommunication, Covenant University, Nigeria, September 13 – 15, 2011.
- 23) International Conf. on ICT for Africa, Ota, Nigeria, 23rd – 26th March 2011
- 24) Nigerian Society of Engineers’ National Engineering Conference & AGM, Dec. 2009, Owerri.

N. MEMBERSHIP OF LEARNED SOCIETIES / PROFESSIONAL BODIES

- | | |
|---|--------------------|
| 1) FELLOW , Nigerian Society of Engineers (FNSE), | No.17,913 |
| 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.(NIEEE) | No. 01271 |
| 6) Member , Internet Society Int’l Chapter. (ISOC), | No. 1337500 |
| 7) Corporate Member , Nigeria Institute of Management (MNIM) | No. 55577 |
| 8) Corporate Member , Nigeria Hydro Power Association (MNHPA) | |

P. CURRENT RESEARCH

a) Next Generation Wireless Communications Technologies

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 area of research is on these most promising access technologies that satisfy these demands aforementioned which include: Orthogonal Frequency Division Multiple Access (OFDM/OFDMA), Multiple Input Multiple Output (MIMO), WiFi, WiMAX, The 3GPP Long Term Evolution (LTE) 4G, 5G Systems and beyond.

b) Communications and Signal Processing

Research in the Communications and Signal Processing area focuses on the efficient processing and transmission of data. The communications research investigate 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 research.

c) Radio Channel and Propagation Models for Next Generation Systems

This research area study and investigate Radio channel fading characteristics in the Telecommunications network environment and their direct impacts on Quality of Service (QoS) which is a set of service requirements to be met by Mobile network operators.

d) Applied Computational Intelligence /Biometric Techniques

Research is conducted using intelligent systems tools and concepts (such as Biometrics, Artificial Intelligence: Neural Networks, Fuzzy Logic and Expert system) in mobile and wireless communication, electrical machines and power systems. These tools and concepts are used in particular for security systems, detection and recognition.

e) Renewable energy sources, Energy efficiency and saving possibilities

O. TRAININGS / COURSES ATTENDED

1. Advanced Digital Appreciation Programme for Tertiary Institutions Statistical Package (ADAPTI), Digital Bridge Institute, Abuja at Landmark University, Omu aran, 2019
2. PLC & SCADA Automation Training, Johannesburg, South Africa , 2014
3. Word of Faith Bible Institute (BCC, LDC and LCC) Certificates, 2019/2010
4. Train -The -Trainer's Workshop, Nigerian Institute for Training & Development (NITD), 2000
5. Nigerian Institute of Policy and Strategic Studies, Badagry, Lagos 2001



Signed: ENGR. PROF. AYOLEKE IBIKUNLE,