

Dr. ABDULKARIM A. OLOYEDE



PROFILE

Dr. Abdulkarim Oloyede is a leading African researcher in the field of Wireless Telecommunication, a Senior Lecturer (Teaching Research and Consulting) in the Department of Telecommunication Science, University of Ilorin, Nigeria and a Post Doctoral researcher at the University of York, UK. He teaches and supervises research at the undergraduate and Post graduate level at the University. He received his first degree in Electrical Engineering in 2008. He obtained his Masters and Ph.D. degrees in Telecommunications Engineering at University of York, UK in 2010 and 2015 respectively. He is an author or co-author of over 40 scientific publications in leading journal and conferences around the world. He is a member of the ICANN At-Large advisory committee (ALAC) and Vice Chairman for the ITU- D Telecommunication Development Advisory Group Representing the African Region and has been representing Nigeria in various ITU meetings since 2016. He is also a Vice Rapporteur for the ITU-D study Question 5/2 and an Ambassador for the ICANN Universal Acceptance. He is also a member of the ICANN

RSSAC caucus and currently the leader of the Local Perspective WP of the RSACC Caucus. He is a member is registered Engineer both in Nigeria and in the UK. He is a member of the Nigeria Society of Engineers (NSE) and the IEEE. He was a member of the panel that appointed Vice chancellors for the University of York and University of Lagos in 2013 and 2017 respectively. He has taken a number of courses with GSMA, and the United State Telecommunication Training Institute (USTTI). He has previous attended regional meetings for AFRINIC, RIPR, ARIN and APINIC and currently finishing a 1-year term as the Chair for the AFRINIC Policy Development Working Group (CPWG). He has travelled to over 40 countries across the 5 continents of the world including about 14 African countries. He would like to seek a re-election because in the last one year he has been contributing to making the community a stable one. He initiated and implemented the idea of regular policy webinars to allow members of the working group to exchange ideas about policy proposals. He is familiar with the Internet Eco system as he has previously attended the events of the Internet Society and meetings of ITU, IETF, ICANN, AFRINIC, APNIC, RIPE, WSIS and IGF meetings among others.

EDUCATION:

2011-2015: University of York, Ph.D., Electronics Engineering (Specialization in Wireless Telecommunications).

Thesis Title: Spectrum Pricing for Cognitive Radio.

2009-2010: University of York, MSc Telecommunications.

Research Project: Cognitive Radio for 4G: This research examined how cognitive networks can be implemented alongside with the fourth-generation mobile technology.

2004-2008: Bayero University Kano, B.Engr. (Electrical Engineering)

Final year project: Design and Construction of an Object Robot.

1996-2002: Unilorin Secondary School

EMPLOYMENT:

July 2018 – Present: Senior Lecturer, Department of Telecommunications Science, Faculty of Information and Telecommunication Science. University of Ilorin, Nigeria.

2018- Present Post Doctoral Researcher, University of York, York, UK

August 2016- Present: Adjunct Senior Lecturer and Head of KWASU Radio and TV Unit. Kwara State University, Malete, Kwara State, Nigeria.

July 2015- July 2018 – Lecturer I, Department of Telecommunications Science, Faculty of Information and Telecommunication Science. University of Ilorin, Nigeria

September 2013 - July 2015: Lecturer II, Department of Telecommunications Science, Faculty of Information and Telecommunication Science. University of Ilorin, Nigeria.

January 2011 - June 2014: Assistant Lecturer (Post-Graduate Teaching Assistant), Department of Electronics University of York.

July 2012- September 2013: Assistant Lecturer, Department of Telecommunications Science, Faculty of Information and Telecommunication Science. University of Ilorin, Nigeria.

May-2007 – Feb-2008: Intern, MegaTech Engineering Services, 147b M. Muh. way Kano.

Jun-2006 – Nov-2006: Intern, Zortek Systems, Johnson Street 116 Pembroke FL USA.

PROFESSIONAL ORGANISATION

2012: COREN Registered Engineer

2012: Member Nigeria Society of Engineers

2011: Member IEEE

2007: CompTIA A plus: Certified System Engineer.

ACHIEVEMENTS/AWARDS

2015: York Award: The official University of York employability certificate in recognition of my extra curricula activities.

2010: York Award: Putting skills to work. A short course organized by the University of York in conjunction with PriceWaterhouseCoopers (PWC) aimed at developing

employability skills, time management, presentation skills (theory and practice) and teamwork.

2010: York Award: Preparing for workplace. A short course organized by the University of York in conjunction with IBM aimed at developing application skills and team development.

2010: York Award: Team development. A two-day course aimed at problem solving, group working, and communication skills alongside of the way teams operate.

2007: Certificate of participation. The Goi peace foundation and UNESCO essay contest “The role of media and information technologies in building a peaceful world”.

2006: Most outstanding President. A yearly award to the Presidents of JCI based on impacted on members.

2004-2006: Elf petroleum National student scholarship award, Award for outstanding student based on first year (undergraduate) performance.

POSITIONS OF RESPONSIBILITY

2020-2021: Ambassador, ICANN Universal Acceptance

2020-2021: Leader, (RSSAC) Cacus Local Perspective Working Party

2020: Chairman, ICANN Africa Strategic Plan FY 21- FY25 Drafting Committee.

2019-2021: Board Member (Representing Africa) ICANN AT-Large. At large Advisory Committee (ALAC)

2019-2020: Co- Chair, AFRINIC Policy Development Working Group (PDWG)

2018-2022: Vice Chairman (Africa), Telecommunication Development Advisory Group (TDAG), International Telecommunication Union.

2018-2022: Vice Rapporteur, ITU-D Study Question 5/2: Utilizing Telecommunications/ICTs for Disaster Risk Reduction and Management

2018: Member RSSAC Caucus, Internet Cooperation of Assigned Name and Numbers (ICANN).

2018- Date: Co- Chair AFRALO (ICANN ATLARGE) Hot-Topic Working Group.

2016- Date: Chairman, Board of Directors, Aspire Group of Schools/ Aspire College of Technology, Abuja Nigeria

2016- Date: Board Member, Welfare Micro Finance Bank Limited, Ilorin, Nigeria

2015- Date: Delegate (Nigeria), International Telecommunication Union Meetings

2015- Date: Nigeria Technical Advisory Council on International Telecommunication Union matters, Federal Ministry of Communications Abuja, Nigeria

2016- Date: Member, Implementation Committee for ICT University of Nigeria (Appointed by Federal Ministry of Communications, Abuja)

2016-Date: Member, Federal Government Initiative of Rural Telecommunication Connectivity across Nigeria (Appointed by Federal Ministry of Communications, Abuja)

2017: External Resource Person, Vice-Chancellor Interview and Appointment Committee, University of Lagos, Lagos Nigeria.

2016: Member Radio and Television Implementation Committee, Kwara State University, Malate, Kwara State.

2012-2014: Member University Senate, representing the Graduate Students' Association, University of York.

2013: Member, Vice-Chancellor Interview and Appointment Committee, Representing the Graduate Students' Association, University of York.

2012: Member University Council, representing the Graduate Students' Association, University of York.

2012: Member, Curriculum review committee, representing the Graduate Students' Association, University of York.

2012: President, Graduate Student Association (GSA), University of York.

2011: Services Officer, Graduate Student Association (GSA), University of York.

2010-2014: Student Ambassador, University of York.

2007: Director of Publicity, Junior Chamber International (JCI) Area D, Nigeria.

2006: President, Junior Chamber International (JCI) Bayero University chapter.

2005: Director of Training, Junior Chamber International (JCI) Bayero University chapter.

Some International Conferences and Meetings Attended:

ICANN 61, 62, 63, 64, 65, 66, 67 and 68

RIPE 77 and 79

AFRNIC 27, 28, 29, 30, and 31

ARIN 44

APNIC 49

ITU, World Telecommunication Development Conference WTDC 2017.

IETF 101.

ITU Plenipotentiary Conference 2014 and 2018.

IGF, 2016 and 2019

SOME PUBLICATIONS (Over 50 Publications in Reputable Journals and Conferences across the Globe):

1. Ajimotokan, H.A., Ajao, K.R., Adebisi, K.A., Dainkeh, A. & **Oloyede, A.A.** (2010): "Engineering Education and Sustainable Development in Nigeria". **Journal of Research Information in Civil Engineering**, 7(1); 93-98. Published by Department of Civil Engineering, University of Ilorin, Nigeria.
2. **Oloyede A.A.**, Faruk,N., Olawoyin L., Abdulkarim A., & Adediran, Y (2017): Economics of Dynamic Spectrum Access. **International Journal of Information Processing and Communication**, Published by Faculty of CIS, University of Ilorin, Nigeria.
3. Bello,O.W., Faruk,N., **Oloyede, A.A.**, Popoola,S.I., & Olawoyin, L.A. (2017): A Holistic Architecture for Implementation of Electronic Health Record System in Nigeria. **Ilorin Journal of Computer Science and Information Technology (ILJCSIT)**, ISSN 2550 - 7214. Vol 2, No.1, 2017. Published by Department of Computer Science, University of Ilorin.

4. Faruk,N., Bello,O.W., **Oloyede, A.A.**,Popoola,S.I., & Olawoyin, L.A. (2017): Telecommunication Access Model for mHealth Deployment in Emerging Economies. *Ilorin Journal of Computer Science and Information Technology (ILJCSIT)*, ISSN 2550 - 7214. Vol 2, No.2, 2017. Published by Department of Computer Science, University of Ilorin.

5. Ajimotokan, H.A., Ogunsola, A.D. & **Oloyede A.A.** (2011): “Development and Performance Evaluation of a Device for Thermal Conductivity Measurement”, **Nigerian Society of Engineers (NSE) Technical Transactions**, 46(2); 49-55. Published by Nigeria Society of Engineers, Nigeria.

6. **Oloyede, A.A.**, & Grace, D., (2016): “Energy Efficient Bid Learning Process in an Auction Based Cognitive Radio Network”. *Bayero Journal of Engineering and Technology (BUKJET)* 14 Vol 11(2); pp 55-73. Published by the Department of Electrical Engineering, Bayero University Kano. Available online <http://www.bayerojet.com/420523127>

7. **Oloyede, A.A.**, Ajimotokan H.A., & Nasir F. (2017): “Embracing the Future of engineering Education in Nigeria: Teaching and Learning Challenges”. *Nigeria Journal of Technology (NIJOTEC)* Vol 36(4); pp 991-1001. Published by the Faculty of Engineering, University of Nigeria Nsukka. Available online <https://www.ajol.info/index.php/njt/index>

8. **Oloyede, A.A.**, & Nasir, F., (2018): “Dynamic Spectrum Access with Energy Efficiency”. *Bayero Journal of Engineering and Technology (BUKJET)* 14 Vol 13(2); pp 45-66. Published by the Department of Electrical Engineering, Bayero University Kano. Available online <http://www.bayerojet.com/420523127>

9. Faruk, N, Bello, Gumel,M.I., **Oloyede, A.A.**, & Ayeni A.A (2013): “Performance Analysis of Hybrid Protocol for Cognitive Radio Networks”. *International Journal of Communications, Network and System Sciences* Vol 6 (01): pp 18 – 32, Published by Scientific Research Available online <http://dx.doi.org/10.4236/ijcns.2013.61003> DOI:10.4236/ijcns.2013.61003

10. Faruk, N, Bello, O.W, **Oloyede, A.A.**, Ogunmodimu, O & Lukman, A. O (2016): “Climate Change and Next Generation Cellular Systems”. *Ethiopian Journal of Environmental Studies and Management (EJESM)*, 9 (Suppl. 2): pp 1022 – 1035, Published by Department of Geography and Environmental Studies, Bahir Dar University, Ethiopia. Available online <http://dx.doi.org/10.4314/ejesm.v9i2.8S>

11. **Oloyede. A.A.**, & Lawal, M.B., (2017): “Energy Efficient Auction Based Dynamic Spectrum Access Network” **International Journal of Islamic University Malaysia (IIUM) Engineering**, Vol 18(1) PP. 73-83, Published by The Faculty of Engineering international Islamic University Malaysia (IIUM).
Available Online
<http://journals.iium.edu.my/ejournal/index.php/iiumej/article/view/682>

12. **Oloyede A.A., & D. Grace (2017):** “Energy Efficient Dynamic Spectrum Pricing for Cognitive Radio Based Cellular Systems Using The Concept of Green Payments”. **Springer Journal of Wireless and Personal Communications**, Vol 90(1) PP 189-216 Published by Springer, UK London. Available Online <https://link.springer.com/article/10.1007/s11277-016-3341-6>

13. **Oloyede A.A., & D. Grace (2016)** “Energy Efficient Spectrum Auction Process with Utility Functions.”. **Springer Journal of Wireless and Personal Communications**, Vol 95(3) PP. 2829-2853 Published by Springer, UK London. Available online at <https://link.springer.com/article/10.1007/s11277-017-3966-0>

14. **Oloyede A.A., & D. Grace (2017)** “[A Game Based Energy Sensitive Spectrum Auction Model and Bid Learning Process for Cognitive Radio Systems](#)” **International Journal on Electrical Engineering and Informatics**, Vol 9(4) PP 732-746 Published by School of Electrical Engineering and Informatics, Bandung University of Technology, Indonesia Available online at <http://www.ijeei.org/docs-8732482545a72d34a5e503.pdf>

15. **Oloyede, A.A., Nasir, F., Olawoyin L., & Bello, O.W (2017):** ” A Dynamic Bid Learning Model for Energy Efficiency in Future Wireless Network', **Journal of Siberian Federal University. Engineering and Technology**, Vol 5(1) PP 1-13 Published by Siberian Federal University, Available online at: <http://journal.sfukras.ru/en/series/technologies> DOI: 10.17516/1999-494X-0035.

16. Olawoyin, L.O, Hongwen, Y, **Oloyede, A. A & Faruk, N, (2017):** “A Random Linear Code Based Secure Transmission Scheme for Wireless Fading Channels”. **SCIENCE CHINA Information Sciences**, 60 (4); pp 049301:1–049301:3, **Published by Springer**. Available online <https://link.springer.com/article/10.1007/s11432-016-0253-x>

17. Olawoyin, L.A., Faruk,N., Hongwen Y., & **Oloyede A.A (2018)** "Physical Layer Secrecy Enhancement over Nakagami-m Fading Channel Using Full-Duplex Receiver”, **Int. Journal of Signal and image system Engineering, Published by Inderscience**. Accepted for Publication. <http://www.inderscience.com/jhome.php?jcode=ijssise>

18. Nasir F., Bello, O.W., **Oloyede A.A., Surajudeen-Bakinde, N.T., Obiyemi,O., Olawoyin, L.A., Ali, M.A., Jimoh, A., (2017):** “Clutter and terrain effects on path loss in the VHF/UHF bands”, **IET Microwaves, Antennas & Propagation, Published by Institutes of Engineering and Technology (IET), United Kingdom**. Available online at <http://digital-library.theiet.org/content/journals/10.1049/iet-map.2016.0809>

19. Surajudeen-Bakinde, N.T., FARUK,N., Salman, M., **Oloyede A.A.**, Olawoyin, L.A., & Calafate, C.(2018): “Path Loss Predictions for Multi-Transmitter Radio Propagation in VHF Bands using Adaptive Neuro-Fuzzy Inference System” **International Journal of Engineering Science and Technology**, Published by Elsevier's. (Letter of Acceptance dated 18th May 2018) Publisher URL: <https://www.journals.elsevier.com/engineering-science-and-technology-an-international-journal/>

20. Surajudeen-Bakinde, N.T., FARUK,N., Salman, M., Popola, S., **Oloyede A.A.**, & Olawoyin, L.A. (2018): “On Adaptive Neuro-Fuzzy Model for Path Loss Prediction in the VHF Band”. ITU Journal of ICT Discoveries. Special Issue (1). PP. 1-9. Published by International Telecommunication Union (ITU). Available online at <https://www.itu.int/en/journal/001/Documents/itu2018-8.pdf>

21. Abdulkarim, A., Nasir, F., **Oloyede, A.A.**, Olawoyin, L.A., Akorede, M., Madugu, I.S., Adediran, Y.A., & Abdelkader, S.M. (2018): “Reliability Study of Stand-alone Hybrid Renewable Energy Microgrids”, **Iranian Journal of Science and Technology, Transactions of Electrical Engineering**, Published by Shiraz University Iran (Letter of Acceptance dated 3rd May 2018) Publisher URL: <http://ijste.shirazu.ac.ir/>

22. **Oloyede, A.A** & Ajimotokan H.A., (2016): “**Resource Efficiency and Climate Change: Engineering and Technological Responses**” Water, Land and People In Climate Change. Published by Stamford Lake Publication Sri Lanka. PP. 337-352

23. Faruk. N., **Oloyede, A.A.**, Abdulkarim, A., Olawoyin, L.A., & Yinusa A. Adediran (2018), "**Energy Savings in Heterogeneous Networks with Self Organizing Backhauling**", Advances on Computational Intelligence in Energy: The Applications of Nature-Inspired Metaheuristic Algorithms in Energy, *Green Energy and Technology*, **Published by Springer**, Available online at <http://www.springer.com/gp/book/9783319698885>

24. Faruk. N., **Oloyede, A.A.**, Abdulkarim, A., Olawoyin, L.A., & Yinusa A. Adediran (2018): "**Effects of size and site factors on the availability of hybrid renewable energy microgrid**", Advances on Computational Intelligence in Energy: The Applications of Nature-Inspired Metaheuristic Algorithms in Energy, *Green Energy and Technology*, **Published by Springer**, Available online at Print <http://www.springer.com/gp/book/9783319698885>

25. Faruk. N., **Oloyede, A.A.**, Abdulkarim, A., Olawoyin, L.A., & Yinusa A. Adediran (2018): “**Energy Savings in Heterogeneous Networks with Self Organizing Backhauling**”, *Lecture Notes in Energy (LNE)*, **Published by Springer**, Available Online at <http://www.springer.com/series/8874>

26. **Oloyede A.A** & Nasir, F. (2017): Agriculture Embedded In Science, Engineering And Information and Communication Technology (ICT): The Missing Key To

Graduate Employability In Africa. Selected papers series , Published by Association of African University, Accra, Ghana

27. **Oloyede, A.A., & Grace,D.,** (2016): "Economic Modelling with Green Resource Management for Future Wireless Broadband Networks," Proceedings of 12th Wireless On-demand Network Systems and Services (WONS), Vol 12 (2), pp. 1-6. Available online at <https://ieeexplore.ieee.org/document/7429063/>
28. **Oloyede, A.A., & Grace,D.,** (2014): Energy efficient learning based auction process for cognitive radio systems. Proceedings *IEEE 11th Consumer Communications and Networking Conference (CCNC)*, Las Vegas, NV, 2014, pp. 35-40. Available online at <https://ieeexplore.ieee.org/document/7056320/>
29. **Oloyede, A.A., & Dainkeh, A.,** (2015): "Energy efficient soft real-time spectrum auction," Proceedings of *Advances in Wireless and Optical Communications (RTUWO)*, PP. 113-118. Available online at <https://ieeexplore.ieee.org/document/7365732/>
30. **Oloyede, A. A and Grace, D** (2014) " **Energy Efficient Learning Based Auction Process for Cognitive Radio Systems**" IEEE Consumer Communications and Networking Conference (CCNC) , Las Vegas, 10-13 January, 2014.
31. **Oloyede, A. A and Grace, D,**(2013) " **Learning Based Auction for Cognitive Radio Networks**" Cost Action IC0902 Mc Meeting C, Rome, Italy October 9-11 2013.

REFEREE:

Available on request