ATAYERO: List of Publications

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Introduction

This list of publications from the research activities of Atayero is presented in three main subsections namely: a) articles reporting the research findings of the author as reported in peer-reviewed International journals as well as conference proceedings are listed [1–115]; b) the authors articles published as chapters in books [116–123]; and c) edited books and monographs [124–130]. It is noted here that the domain of expertise of the author covers all aspects of Information and Communication Engineering and Technology. Journals were selected based on their scope as advertised in their respective calls for contribution (a.k.a. call for papers) and special attention was accorded generally accepted ones in the contextual research area. Also notable is the fact that not a single one of the author’s initial submission was ever rejected. A number of the journal publications were very highly rated and awarded certificates of excellence. Some were initially presented as conference papers, and after receiving awards of excellence are to be published as invited journal papers, and book chapters in special editions from highly reputed publishing outfits such as Elsevier, Springer, IEEEXplore, Taylor&Francis et cetera. What follows is a detailed list of the author’s publications as Principal Investigator of The IoT-enabled Smart and Connected Communities Cluster (SmartCU) of Covenant University, Ota, Nigeria.
A. INTERNATIONAL PEER-REVIEWED ARTICLES

[1]. 2018-10 – Optimal Model for Path Loss Predictions using Feed-Forward Neural Networks
[2]. 2019-09 – Dataset on statistical analysis of editorial board composition of Hindawi journals indexed in Emerging sources citation index
[4]. 2019-07 – Received signal strength and local terrain profile data for radio network planning and optimization at GSM frequency bands
[5]. 2018-06 – Learning analytics: Dataset for empirical evaluation of entry requirements into engin. undergraduate programs in a Nigerian University
[6]. 2019-05 – Path loss dataset for modeling radio wave propagation in smart campus environment
[7]. 2018-04 – Learning analytics for smart campus: Data on academic performances of engineering undergraduates in Nigerian private university
[9]. 2018-02 – Smart campus: Data on energy consumption in an ICT-driven university
[12]. 2017-21 – Outdoor Path Loss Predictions Based on Extreme Learning Machine
[13]. 2017-20 – A Framework for Electronic Toll Collection in Smart and Connected Communities.
[15]. 2017-18 – Occupancy Controlled Lighting System for Smart Buildings
[18]. 2017-15 – A Survey on Traffic Evacuation Techniques in Internet of Things Network Environment
[20]. 2017-13 – Smart Assistive mHealth System for Medication Adherence in Patients with Alzheimer’s Disease.
[21]. 2017-12 – Digital Speed Control of DC Motor for Industrial Automation using Pulse Width Modulation Technique.
[27]. 2017-05 – MIMO Optimization Techniques and Their Application in Maximizing Throughput for 3GPP HSPA
[28]. 2017-04 – Cost-Effective Medical Robotic Telepresence Solution using Plastic Mannequin
[30]. 2017-02 – LTE-Advanced for Rapid Mobile Broadband Penetration in Developing Countries
[32]. 2016-13 – From 3GPP LTE to 5G: An Evolution
[33]. 2016-12 – Comparative Analysis of Scheduling Techniques in Downlink LTE Using MATLAB-Based LTE MACLAB Simulator
[34]. 2016-11 – Comparative Analysis of Routing Internet Protocol and Open Shortest Path First Protocols Using QUALNET
[35]. 2016-10 – Propagation Model Optimization Based on Measurement from Macrocell Sites in Ikorodu-Epe, South-Western Nigeria
[37]. 2016-08 – Call admission control techniques for 3GPP LTE: A survey.
[38]. 2016-07 – A robust preprocessing algorithm for iris segmentation from low contrast eye images
[39]. 2016-06 – Developing smart cities through optimal wireless mobile network.
[41]. 2016-04 – Development of Smart Assistive DTMF Home Automation System for Ageing Population
[42]. 2016-03 – Development of a Wireless Power Transfer System using Resonant Inductive Coupling
[44]. 2016-01 – An Assessment of the Internet of Things (IoT) Adoption Readiness of Sub-Saharan Africa
[54]. 2015-03 – Development of FIGA: A Novel Trust-Based Algorithm for Securing Autonomous Interactions in WSN.
[57]. 2014-18 – Overcoming Students’ Lethargy in Evaluating Lecturers’ Teaching Competence: Covenant University Experience
[59]. 2014-16 – Design And Implementation Construction of a Solar-Powered Street Light System
[60]. 2014-15 – Design And Implementation Of Learning-aid Software For Children
[61]. 2014-14 – The Concurrent and Predictive Validity of Covenant University Students’ Evaluation of Lecturers’ Teaching Competence
[63]. 2014-12 – Emerging Trends In Lifelong Learning: The Covenant University Perspective
[64]. 2014-11 – LTE Networks: Benchmarks, Prospects and Deployment Limitation
[65. 2014-10 – Overcoming Barriers To New Learning Technologies In A University Setting: The Case Of Covenant University
[66. 2014-09 – Design And Implementation Of A Virtual Computing Environment For Schools And Offices
[67. 2014-08 – FOSS Implementation of an Educational Virtual Office Suite
[68. 2014-07 – Self Organizing Networks for 3GPP LTE
[69. 2014-06 – Policy For Development And Use Of Open Educational Resources In Covenant University
[70. 2014-05 – Open Education And Digital Scholarly Communication In Covenant University
[71. 2014-04 – Implementing Open Access In A Private Nigerian University: A Case Study Of Covenant University
[72. 2014-03 – Advances In Current Techniques For Monitoring The Progress Of Child Delivery
[73. 2014-02 – 30 Billion Devices Automatically Interconnected By 2020: Impact On The Virtual Learning Environment
[75. 2012-17 – Development of Curiris: A Dark-Skinned African Iris Dataset for Enhancement of Image Analysis and Robust Personal Recognition
[76. 2012-16 – Power Line Communication Technologies: Modeling and Simulation of PRIME Physical Layer
[78. 2012-14 – The Spatial-Temporal Characteristic of Video Content and Its Impact on the Quality of Wireless Conduits
[80. 2012-12 – Markov Models of Telephone Speech Dialogues
[81. 2012-11 – Heterogeneous Wireless Networks: A Survey of Interworking Architectures
[83. 2012-09 – Modeling and Simulation of a University LAN in OPNET Modeller Environment
[84. 2012-08 – Effect of Error Packetization on the Quality of Streaming Video in Wireless Broadband Access Networks
[85. 2012-07 – Adaptive Neuro-Fuzzy Inference System for Dynamic Load Balancing in 3GPP LTE
[86. 2012-06 – A Soft Computing Approach to Dynamic Load Balancing in 3GPP LTE
[87. 2012-05 – Satellite Packet Communication
[88. 2012-04 – Applications of Soft Computing in Mobile and Wireless Communications
[89. 2012-03 – Estimating the Quality of Digitally Transmitted Speech Signal over Satellite Communication Channels
[91. 2012-01 – Neural-encoded Fuzzy Models for Load Balancing in 3GPP LTE.
[93. 2011-10 – Revisiting the Notion of Origin-Destination Traffic Matrix of the Hosts that are Attached to a Switched Local Area Network
[94. 2011-09 – Detection of Teletraffic Anomalies Using Multifractal Analysis
[95. 2011-08 – Development of iSpeak: A Voice-activated Relationship Management System
[96. 2011-07 – Satellite Link Design: A Tutorial
[97. 2011-06 – Development of iCU: A Plagiarism Detection Software
[100. 2011-03 – 3GPP Long Term Evolution: Architecture, Protocols and Interfaces
[101. 2011-02 – Compression of High-dimensional Data Spaces Using Non-differential Augmented Vector Quantization
[102. 2011-01 – Estimation of the Quality of Video Streaming Under Desynchronization Conditions
[105. 2009-02 – A Case-Based Reasoning Approach for Speech-Enabled e-Learning System
[107. 2008-05 – Development and Deployment of VoiceXML-Based Banking Applications
[109. 2008-03 – A Multi-channel Application Framework for Customer Care Service using Best-first Search Technique
[110. 2008-02 – Characterizing the Maximum Queuing Delay of a Packet Switch
[111. 2008-01 – Implementation of ‘ASR4CRM’: An Automated Speech-Enabled Customer Care Service System
[112. 2007-01 – An Information Filtering Agent for Customer Service Delivery Using Single Authoring
[113. 2005-02 – Design and deployment of hybrid-telemmedicine applications
[115. 2004-01 – A Framework for M-Commerce Implementation in Nigeria

B. Book Chapters
[116. 2016a – From 3GPP LTE to 5G: An Evolution
[117. 2015a – Leveraging MMWAVE Technology for Mobile Broadband/Internet of Things
[118. 2013a – Modeling, Simulation and Analysis of Video Streaming Errors in Wireless Broadband Access Networks
[119. 2013b – Modeling of Packet Streaming Services in Information Communication Networks
[120. 2013c – Principles of Modeling in Information Communication Systems and Networks
[121. 2013d – ANFIS Modeling of Dynamic Load Balancing in LTE
[122. 2011a – Voice-Based e-Learning Approach for e-Government

C. Books
[124. 2016a – Digital Proceedings, 3rd Covenant University International Conference on African Development Issues
[125]. 2013a – Integrated Models for Information Communication Systems and Networks: Design and Development
[126]. 2013b – Design and Development of CUvLab: iOS-Based Virtual ECE Laboratory.
[127]. 2012a – Development of a Web-based Brown-eyed Iris Corpus for Robust Iris Biometric Research
[129]. 2012c – Determination of End-To-End Delays of Switched Local Area Networks: Designing Upper Delay-Bounded Switched LANs

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