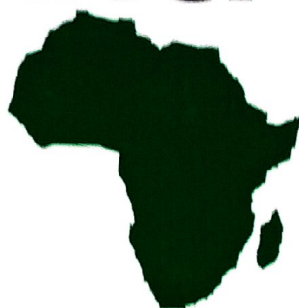


ARCA



CONFERENCE

9TH APPLIED RESEARCH CONFERENCE IN AFRICA

24-27 AUGUST, 2020, UNIVERSITY OF CAPE COAST, CAPE COAST, GHANA

CONFERENCE PROGRAMME & ABSTRACT BOOK



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ARCA



CONFERENCE

**9TH APPLIED RESEARCH CONFERENCE IN AFRICA
24-27 AUGUST 2020, UNIVERSITY OF CAPE COAST, CAPE COAST,
GHANA**

**THEME: INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND LIFELONG
LEARNING OPPORTUNITIES FOR ALL-THE ROLE OF RESEARCHERS**

ABSTRACT BOOK AND PROGRAMME

Editors

Prof. Joseph N. Mojekwu

Prof. Wellington Thwala

Prof. Clinton Aigbavboa

Prof. Lawrence Atepor

Prof. Samuel Sackey

Book of **ABSTRACT** of the 9th Applied Research Conference in Africa (ARCA) 2020
University of Cape Coast, 24 – 27 August 2020

Editors

Prof. Joseph N. Mojekwu
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Correspondence

All correspondence relating to the ARCA Conference should be addressed to:

Dr. Emmanuel Bamfo-Agyei

ARCA Academic Publisher,

Cape Coast Technical University,

P.O. Box DL 50

Cape Coast

Ghana

Email: arcaafrika2015@gmail.com

DECLARATION

All papers in this publication have been peer- reviewed involving initial screening of **ABSTRACTs**, review by at least two referees, modifications of papers by authors and re-evaluation of re-submitted papers to ensure quality of content.

FOREWORD

On behalf of the LOC I welcome you to the 9th Applied Research Conference in Africa (ARCA). Unfortunately due to COVID 19 we are not meeting physically this year but are still meeting, thanks be to God and Zoom technology.

There is an enormous challenge of the role of research in developing the continent. Africa is a continent where research is seen to be not directly related to development. However, believes are that research should contribute to the socio-economic development of the continent. Hence the aim of the Applied Research Conference in Africa is to provide a platform for capacity building and networking among researchers in Africa. The theme of "INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND LIFE LONG LEARNING OPPORTUNITIES FOR ALL-THE ROLE OF RESEARCHERS." is very appropriate considering the times we find ourselves in now. Researchers from Africa would be presenting their scientific papers at the conference. Quite a number of peer-reviewed papers relating to the following disciplines but not limited to them would be presented: Engineering, Built Environment, Hospitality and Tourism, Food Science, Oil, Gas and Energy, Medicine, Statistical Modeling, Information and Communication Technology, Applied Sciences & Arts, Business, Social Sciences and Humanities.

I also wish to express my gratitude to all the Scientific and Review Committee members who spent their time and efforts to assist in the review of the papers. The Conference Secretariat and the Local Organizing Committee are to be commended highly for their efforts.

Distinguish Ladies and Gentlemen, Enjoy your the various speeches and presentations. May we have a successful Conference.

Prof. Lawrence Atepor.
Chairman, ARCA Local Organizing Committee

SCIENTIFIC COMMITTEE

- Prof. Joseph N. Mojekwu University of Lagos, Nigeria.
Prof. Lawrence Atepor, Cape Coast Technical University Ghana.
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Dr. Emmanuel Bamfo-Agyei, Cape Coast Technical University, Ghana.

ORGANISING COMMITTEE

- Prof. Lawrence Atepor
Dr. Emmanuel Bamfo-Agyei
Sophia Panarkie Pardie
Eric Awere

REVIEW PANEL

We wish to thank the following people who carried out the review of **ABSTRACTS** and papers for the ARCA 2020 in addition to the members of our Scientific Committee. Thank you for your time and effort.

Prof. D. W. Thwala, University of Johannesburg, South Africa.

Prof. Clinton. O. Aigbavboa University of Johannesburg, South Africa.

Prof. Samuel Sackey, Kwame Nkrumah University of Science and Technology, Ghana.

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Prof. Phil Hackney, Northumbria University, Newcastle upon Tyne NE1 8ST, UK.

Dr. Islam Shyha, Northumbria University, Newcastle upon Tyne NE1 8ST, UK.

ARCA 2020 PROGRAMME OF ACTIVITIES

Start time in Ghana: 8:30am

Start time in Nigeria: 9:30am

Start time in South Africa: 10:30am

Start time in Tanzania: 11:30am

DAY1: MONDAY 24 AUGUST 2020, 08:30-11:00 GMT

ZOOM Link:

<https://us02web.zoom.us/j/85715954672?pwd=NWRLYmRJR0d1T2NHR2s1Y3k2cWRPQT09>

OPENING SESSION:

Venue: University of Cape Coast (Medical Auditorium), Ghana

08:30 – 09:00 Joining Zoom Meeting

09:00 - 09:10 Introduction of Chairman and Keynote Speakers

09:10 - 09:20 Acceptance Speech by the Chairman - **Prof. Joseph N. Mojekwu**, University of Lagos, Nigeria.

09:20 - 09:30 Welcome Address by the LOC Chairman of ARCA- **Prof. Lawrence Atepor**.

09:30 - 10:00 Keynote address: **Professor Jim Ijenwa Unah**, Distinguished Professor of Philosophy, University of Lagos, Nigeria- *Multiculturalism, Multidisciplinary And Inclusivity In African Education And Healthcare*.

10:00-10:30 Keynote address: **Chief Nathaniel Ebo Nsarko**, *Executive Director Millenium Promise Alliance* (Ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education).

10:30-11:00 Q&A

PLENARY SESSION 1 (11:00-13:00)

ZOOM Link:

<https://us02web.zoom.us/j/84463841533?pwd=R25HbUtQQy9HYWoxdWJqa2wrZ0RlQT09>

Chairperson: **Professor Thwala Wellington (University of Johannesburg, South Africa)**

11:00-11:10 Time and Cost Model For Road Construction Projects In Nigeria- Okosun, S.E; Oluwajana, S.M; Johnson, N.G; Abel, O.A; Olowookere, C.A

11:10-11:20 Equality and access to urban public open spaces by the poor urban street vendors in Dar es Salaam- Kirumirah Mubarack Hamidu

11:20-11:30 Vendors' Willingness Drivers for Participation in Public Electronic Procurement System, Ilala District, Tanzania - Meshack Siwandeti, Camilius Sanga, Abswaid Mfanga and Faustine Panga

11:30-11:40 Modeling Efficiency in the Presence of Volunteering Agency Hospitals and Council Designated Hospitals in Tanzania: An Application of Non Parametric Approach- Kembo M. Bwana

11:40-11:50 Impact of Work-Based Conditions on Labour Productivity of Construction Workers in Ghana - Bamfo-Agyei, E., Thwala D.W. and Aigbavboa, C.O.

11:50-12:00 The Effect of Bitter Kola (*Garcinia*) Biodiesel and n-Octanol Additives on

Performance, Emission and Combustion Characteristics of Diesel Engines-
Atepor, L.

12:00-12:10 Cluster Development Initiatives in Promoting Small and Medium Enterprises in
Tanzania: An Experience of Cluster Development Initiatives Implementation
Status in selected regions- Shimba, B. F., Mwakalobo, A. and Mustafa, A.

12:10-13:00 Q&A

PLENARY SESSION 2 (11:00-13:00)

ZOOM Link:

<https://us02web.zoom.us/j/84463841533?pwd=R25HbUtQQy9HYWoxdWJqa2wrZ0RlQT09>

Chairperson: **Professor Lawrence Atepor (Cape Coast Technical University, Ghana)**

11:00-11:10 Re- Engineering Indigenous Education for Equality and Global Competitiveness
of Nigeria Secondary Education- Ogundele, M. O.

11:10-11:20 Impact of Tetfund Intervention on Quality Assurance of Basic Education In
Plateau State, Nigeria- Oke , T.I.

11:20-11:30 The Challenges of Girl Child Education In Sokoto State, Nigeria And Its
Implications For National Development- Musa Haruna J. And Nafisa A.

11:30-11:40 Women Perceptions on Factors Contributing to Job Transition in Higher
Learning

Institutions in Tanzania: A Phenomenological Approach- Mariam Ally Tambwe,
Mzomwe Yahya Mazana and Margareth Amon Mapunda

11:40-11:50 The Implication Of Societal Perception And Value Of Education On Research
And Quality Education: The Nigeria Example, 1999-2019- Famoye Abiodun
Daniels.

11:50-12:00 The Effect Of Concentration And Heat Treatment On Optical Properties Of Zinc
Sulphide And Aluminum Doped Zinc Sulphide Thin Solid Films-Odo, L.O.

12:00-13:00 Q&A

DAY 2 TUESDAY AUGUST 25, 2020 08:00-14:30

KEYNOTE PRESENTATION

08:30-09:00 ZOOM Link:

<https://us02web.zoom.us/j/87045451543?pwd=ZjhRYWJxbkV6TDN4UIVnT29XRkJwUT09>

Chairperson **Professor Lucy O. Ogunsumi, (IAR&T, Nigeria)**

09:00-10:00 **Professor Clinton Aigbavboa** (University of Johannesburg, South Africa)
Getting Conceptual Framework Right

10:00-10:30 Q&A

PLENARY SESSION 1 (10:30-12:00)

ZOOM Link:

<https://us02web.zoom.us/j/81870817224?pwd=V1F6dFF2UVBmUERKb3BPSGUwck5xZz09>

- Chairperson **Professor Samuel B. Owusu-Mintah (Cape Coast Technical University)**
- 10:30-10:40 Application of Social Science Theories for Effective Teaching and Learning of History in Nigeria: Example of Dialectical Materialism- Adedayo Emmanuel AFE.
- 10:40-10:50 The Digital Diplomacy (DD) Apparatus and the Conduct of Diplomacy in Tanzania- Kajerero¹, J. Mujwahuzi² L. S.
- 10:50-11:00 Breaking Patriarchal Chains in Nwapa's Women are Different and One is Enough- Thomas¹. H. and Mujwahuzi². L. S.
- 11:00-11:10 Barriers to Good Governance for Maize Farmers' Groups in Southern Highlands of Tanzania -Emmanuel J. Munishi
- 11:10-11:20 Value Chain Factors Influencing The Adoption Of Improved Bean Varieties Among Smallholder Farmers In Misenyi District, Tanzania- Scholastica N. Justus, Alban D. Mchopa and Isaac E. Kazungu
- 11:20-11:30 Exploration of the Patterns of Child-Caregivers Interactions Leading to Improved Children's Cognitive Abilities-Nsolezi, F. S., and Bali.T
- 11:30-12:00 **Q& A**

PLENARY SESSION 2 (10:30-12:00)

ZOOM Link:

<https://us02web.zoom.us/j/81870817224?pwd=V1F6dFF2UVBmUERKb3BPSGUwck5xZz09>

Chairperson **Prof. Joseph Mojekwu (University of Lagos, Nigeria)**

- 10:30-10:40 Customers' Satisfaction on Bus Rapid Transit Services in Tanzania: The SERVQUAL Model Perspective- *Margareth Amon Mapunda*
- 10:40- 10:50 Evaluating Customers' Satisfaction of Service Quality of State-Owned Transport Company: A Case of Kano State Transport Authority (Kano Line), Nigeria-¹*Ojekunle Joel Ademola*, ²*Ibrahim Salim Daneji*, ³*Oluwole Matthew Sunday* and ⁴*Owoeye Adelanke Samuel*
- 10:50-11:00 Determinants of Airline Selection At Nnamdi Azikwe International Airport, Abuja-Nigeria- A Researchers' Perspective- Oluwole, M.S.; Ojekunle, J.A.; Adindu, C.C.; Nwaogbe, R.O., & Muhammed, A.I.
- 11:00- 11:10 Effect of Service Quality of Weights and Measures Agency on Customer Satisfaction in Dodoma City, Tanzania- Said Ibrahim and Robert Galan Mashenene
- 11:10-11:20 Decomposing Total Factor Productivity of Non-Life Insurance Firms in Tanzania- Kembo M. Bwana

11:20-12:00 Q& A

Day 2 KEYNOTE SESSION (12:00 – 13:00)

ZOOM Link:

<https://us02web.zoom.us/j/89146320190?pwd=UGF0MXZVUU54djdlTmE5SU01V3loUT09>

Chairperson Professor Emanuel A.M. Mjema (College of Business Education, Tanzania)

12:00-12:30 **Professor Nnamdi Nwulu**, (University of Johannesburg, South Africa)

Exploring the nexus between 4th Industrial Revolution and Sustainable Education

12:30-13:00 Q& A

PLENARY SESSION 1 (13:00-14:30)

ZOOM Link:

<https://us02web.zoom.us/j/82520565273?pwd=NStubktUZ21CVETXcnRvdFRMbE13Zz09>

Chairperson Professor Clinton Aigbavboa (University of Johannesburg, South Africa)

13:00-13:10 Qualitative assessment of palm oil mill wastewater from small-scale processing mills in Ghana-Eric Awere, Alessandra Bonoli, Peter Appiah Obeng

13:10-13:20 Improving “werewere” (*Cucumeropsis mannii* N.) Oil Biodiesel Fuel Characteristics Using Diethyl Ether Additives- Atepor, L.

13:20-13:30 An Appraisal Of Electric Energy Supply Security In Residential Estates Of Ado-Ekiti, Nigeria- Okosun, S.E.; Fasakin J.O.; Basorun J.O.; Olamiju I.O. Aluko E.A.

13:30 -13:40 The practice of Industrial and Labour Relations in Higher Learning Institutions: A case of Mwanza City Council- John Meku Lelo, Dismas K. Nziku and Atupakisye Mwakolo

13:40-13:50 The influence of Temperature on Productivity of Labour intensive works on Road Construction in Ghana-Bamfo-Agyei, E., Aigbavboa, C., and Thwala W. D.

13:50-14:00 Characterizing street vendors in the urban settings of Tanzania: Towards sustainable solutions to vendors’ challenges- Mubarack Kirumirah, and Emmanuel J. Munishi

14:00-14:30 Q& A

DAY 3: WEDNESDAY AUGUST 26 2020 (08:30-13:10)

RESEARCH WORKSHOP

ZOOM Link:

<https://us02web.zoom.us/j/81376405411?pwd=YUcvM08rY3R3QldoQjVzYmFUbGNUQT09>

08:30-09:00

Chairperson: **Professor Aniekwu Nathaniel**, University of Benin, Nigeria

09:00-09:30 **Professor. Bashiru Gaba**, The Commissioner, Ministry of Higher

Education, Sokoto State, Nigeria. (Inclusive and Equitable Quality Education and Lifelong Learning Opportunities for all (SDG 4) - The Role of Researchers.)

09:30-10:00 Q&A

PLENARY SESSION 1 (10:00-12:10)

ZOOM Link:

<https://us02web.zoom.us/j/81491864925?pwd=Vk5lNGFiSThwYUZXcFFoN0EybTAvZz09>

Chairperson: **Professor Samuel Sackey, Kwame Nkrumah University of Science and Technology, Ghana.**

- 10:00-10:10 Nigerian Undergraduate Students' Perception of Cyber Ethical Issues- *Janet O. Adekannbi*
- 10:10-10:20 Assessment of the Effects of ICT on Supply Chain Management Practices in Public Institutions in Tanzania – A Case Study at a Utility Company in Tanzania- Aikaruwa Pascal Matay and Emanuel Amaniel Mjema
- 10:20-10:30 Deep Learning For Automatic Parasitemia Identification From Peripheral Blood Smear Images- A. U. Rufai and J.O. Enikuomihin
- 10:30-10:40 Transforming the e-waste management sector in Ghana: Progress on regulatory and institutional strengthening- Eric Awere, Alessandra Bonoli
- 10:40-10:50 Online Marketing Strategies in Creating Loyalty among ALAF LTD Customers in Tanzania- Zuberi T. Lweno and Robert Galan Mashenene
- 10:50-11:00 Implementation of Design Thinking and Innovation Strategies by Ghanaian Companies: A Case of CPC- Okai-Mensah, C. K., Howard, E. K. and Osei, M. A.
- 11:00-11:10 Sustainable Design Approach in The Ghanaian Textile Industry – A Case Study of
Volta Star-Sophia Panarkie Pardie , Divine Gbevedor & Ebenezer K. Howard
- 11:10-12:10 **Q& A**

PLENARY SESSION 2 (10:00-12:10)

ZOOM Link:

<https://us02web.zoom.us/j/81491864925?pwd=Vk5lNGFiSThwYUZXcFFoN0EybTAvZz09>

Chairperson: **Dr. Gabriel Nani, Kwame Nkrumah University of Science and Technology, Ghana.**

- 10:00-10:10 Economic Burden of Non-communicable Diseases and Poverty in Nigeria: A cross-sectional Study- Ibukun, C.O., and Adebayo, A.A.
- 10:10-10:20 International Capital Inflow And Sub-Saharan African Economy: Does Capital Inflow Lead Growth? Ajisafe Adebayo and Okunade Solomon
- 10:20-10:30 The determinants of Non-Performing Loans in commercial banks- Dickson Pastory
- 10:30-10:40 Prediction of Financial Distress of Listed Commercial Banks In Tanzania And

- Kenya: A Comparative Study- Omary J. Ally and Kembo M. Bwana
- 10:40-10:50 External Factors influencing the Performance of Listed Firms on Dar es Salaam Stock Exchange- Beny Mwenda^{1*}, Benson Otieno Ndiege² and Dickson Pastory³
- 10:50-11:00 Adoption of Employment and Labour Relation Act (ELRA) No. 6 of 2004 by private organizations – in Mwanza City Council, Tanzania- Dismas K. Nziku¹ and John Meku Lelo²
- 11:00-11:10 Assessment Of Some Management Strategies In Resolving Labour Dispute In Colleges Of Education In The North-West Nigeria- Magaji Muhammad and Musa Haruna Jadda
- 11:10-12:10 **Q& A**

CLOSING SESSION (12:00-13:10)

ZOOM Link:

<https://us02.web.zoom.us/j/89739291975?pwd=eWgyWIRHYzBKTHIrRnFXUWVGd1lyZz09>

- 12:10-12:30 Conference summary- Chairman of Scientific Committee
- 12:30-12:40 Reading of Communiqué
- 12:40-13:00 Information on the proceedings by Springer Nature- Editor
- 13:00-13:05 ARCA 2021 Announcement- ARCA Coordinator
- 13:05-13:10 Closing Prayer

DETERMINANTS OF AIRLINE SELECTION AT NNAMDI AZIKWE INTERNATIONAL AIRPORT, ABUJA-NIGERIA- A RESEARCHERS' PERSPECTIVE

Oluwole, M.S.¹, Ojekunle, J.A.², Adindu, C.C.³, Nwaogbe, R.O.⁴; and Muhammed, A.I.⁵

ABSTRACT

The overall contribution of air transport industry to the world economy in year 2016 exceeded USD \$7.6 trillion and this accounts for over 10% of global gross domestic product. It is projected that between 2018-2027, the value of the overall travel industry will grow at an annual compound rate of 3.9% reaching USD \$11.5 trillion and representing more than 11% of global GDP. At the continental level, aviation sector contributes about USD \$10 billion to the African economy. Furthermore, about 2000 airline operators with over 23,000 aircrafts are known to serve over 3,700 airports across the world. These developments continually stimulate airline operators towards increasing their market share on the global air transport landscape. Arising from these, this study therefore, examines the factors that determine passenger's airline selection decision taking at the Nnamdi Azikiwe International Airport, Abuja, Federal Capital Territory of Nigeria. The methodology of study involved structured questionnaire in which data was collected on passengers' attributes and airline service qualities suggested by Ajzen theory of planned behavior. Descriptive statistics and regression method were used in data analysis. Result of the study showed that passenger attitude and perceived behavioural scales were the most significant variables that influence passengers' choice of airlines. The study recommends improvement of airline operation in the critical areas of ticket pricing, service quality, safety, reliability and strong public image to enhance current customer attraction, retention and sustained patronage.

Keywords: Airline, Passengers, Pricing, Safety, Service Quality

¹talkmatthew272@gmail.com

Oluwole, M.S.¹; Ojekunle, J.A.²; Adindu, C.C.³; Nwaogbe, R.O.⁴; and Muhammed, A.I.⁵ (2020) Determinants Of Airline Selection At Nnamdi Azikiwe International Airport, Abuja-Nigeria- A Researchers' Perspective In: Mojekwu, J. N., Thwala, W. D., Aigbavboa, C.; Atepor, L. and Sackey, S. (Eds) Procs 9th Applied Research Conference in Africa. (ARCA), 24-27 August 2020, University of Cape Coast, Cape Coast, Ghana. ARCA Academic Publisher, Registered Member Ghana Publishers Association.