



4<sup>th</sup> International Conference on  
**Statistics for National Security and Socio-Economic Development**  
**PROFESSIONAL STATISTICIANS SOCIETY OF NIGERIA**

Promoting Professionalism in Statistical Research

April 20–23, 2020

**PROFESSIONAL STATISTICIANS SOCIETY OF NIGERIA (PSSN)**  
*Invitation & Call for Papers*  
 to the

**4<sup>th</sup> International Conference**

**THEME:**  
**STATISTICS IN NATIONAL SECURITY AND INDUSTRIAL REVOLUTION**

**SUB-THEMES:**

- Statistical Theories and Methods for Enhancing Social and Health Security.
- Statistical Modelling of Impacts of Industrial Revolution in Sustainable Development Goals (SDGs)
- Statistics for Industrial Revolution and Food Security.
- Big Data Analytics for National Security

**VENUE:** Main Auditorium, University of Ilorin, Ilorin, Nigeria.  
**DATE:** 20th - 23rd April, 2020

**Ilorin 2020**

**PRE-CONFERENCE WORKSHOP**  
**THEME:** Spatio-Geoadaptive Regression Modelling: Methods and Applications Using R and Bayes-X Software  
**DATE:** 20th April, 2020 **VENUE:** Al-Hikmah University, Adeta, Ilorin, Nigeria

**KEYNOTE ADDRESS SPEAKERS:**

**CHIEF ASIWAJU BOLA AHMED TINUBU**  
 The Jagaban of Borgu & Former Executive Governor of Lagos State, Nigeria.

**ALHAJI ALIKO DANGOTE, GCN**  
 Chariman & CEO Dangote Group Corporate Head Office, Union Marble House, Falomo, Ikoyi, Lagos, Nigeria

**ALHAJI CHIEF KAMAR ABIOYE**  
 CEO/Managing Director, KAM Industries Nig. LTD. No.1, New Yidi Road, Ilorin, Kwara State

**LEAD PAPERS PRESENTERS:**

**PROFESSOR BAYO H. LAWAL**  
 Department of Statistics and Mathematical Sciences, Kwara State University, Malete, Kwara State, Nigeria.

**PROFESSOR DAUD K. SANGODOYIN**  
 Oyo State Commissioner for Education, Science & Technology, Oyo State, Nigeria.

**DR. OYELOLA A. ADEGBOYE**  
 Australian Institute of Tropical Health & Medicine, James Cook University, Australia.  
**TOPIC: LET THE DATA TALK: VISUALIZING GLOBAL HEALTH BURDEN**

**DR. ABDULLATEEF BELLO**, Islamic Development Bank, Jeddah, Kingdom of Saudi Arabia.

**CHIEF HOST**  
 His Excellency **MALLAM ABDULRAHMAN ABDULRAZAQ**  
 Executive Governor of Kwara State, Nigeria

**HOST**  
**PROFESSOR SULYMAN AGE ABDULKAREEM**  
 Vice-Chancellor University of Ilorin, Ilorin, Nigeria.

**ROYAL FATHER OF THE DAY**  
 His Royal Highness **ALH. (DR.) IBRAHIM ZULKARNAINI GAMBARI**  
 The Emir of Ilorin & Chairman, Kwara State Traditional Council

**CALL FOR PAPERS**

All intending participants who wish to present papers at the conference are cordially requested to submit their abstracts online by creating account (for new users) or login (for existing users) into their portals on our webpage at [www.pssng.org](http://www.pssng.org). Alternatively, abstracts can be submitted into the following e-mail address: [pssnginfo@gmail.com](mailto:pssnginfo@gmail.com). Please note that all conference participants must register through the PSSN portal at [www.pssng.org](http://www.pssng.org) for ease of access to their conference certificates.

Note that your abstract must contain the following features: Title, Name(s) of Author(s), Affiliation(s), e-mail address of the corresponding author, body of the abstract and maximum of five keywords. The deadline for the submission of abstracts is 31<sup>st</sup> March 2020.

**NOTE:** All fees should be paid online into the PSSN account through the payer's portal on the PSSN webpage at [www.pssng.org](http://www.pssng.org)

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**PROFESSIONAL STATISTICIANS SOCIETY OF NIGERIA (PSSN) 1<sup>st</sup> VIRTUAL CONFERENCE**  
**Monday 24<sup>th</sup> – Wednesday 26<sup>th</sup> August 2020**  
**TABLE OF ABSTRACTS / SCHEDULE FOR PRESENTATIONS**

Time	ITEM		
<b>Day 1: Monday, 24 August, 2020</b>			
10.00 – 10.20	<b>Meet and Greet on Zoom by Participants</b>		
10.20 – 11.00	<b>Opening Speech and Keynote Address I by Professor Sulyman Age AbdulKareem Vice-Chancellor, University of Ilorin, Nigeria</b>		
11.00 – 12.00	<b>LEAD PAPER PRESENTATION I BY Professor Bayo H. Lawal Department of Statistics and Mathematical Sciences, Kwara State University, Malete</b>		
12.00 – 12.10	<b>Break-up into Parallel Sessions (Zoom Rooms)</b>		
	<b>Group 1</b>	<b>Group 2</b>	<b>Group 3</b>
<b>Chairman</b>	<b>Prof. W. B. Yahya</b>	<b>Dr. S. O. Oyamakin</b>	<b>Dr. M. K. Garba</b>
12.10 – 15.00	<b>A1</b> A Sufficient Dimension Reduction Selection of Core Relevant Predictive Variables and Classification of University Students' Academic Class of Degrees <i>Oloredo, K. O. and Babalola, M.</i>	<b>B1</b> ARIMA Model Selection for Count Data with Outliers <i>Akeyede, I., Saleh, I. M., Bello, A. J. and Abubakar, M. B.</i>	<b>C1</b> On the Quasi-Transmuted Mukherjee-Islam Distribution <i>Osoyole, O. I., Izunobi, C. H. and Nwaka, R.</i>

<b>A20</b> Econometric Analysis of the Effects of Some Major Foreign Currencies on Nigeria Naira using Toda-Yamamoto Techniques <i>Garba, M. K., Akanni, S. B., Yahya, W. B. and Banjoko, A. W.</i>	<b>B20</b> A Method of Profiling a Heterogeneous Mixed Population's Dynamics: A Statistical and Informatics Framework <i>Bello, A.O., Yaun Chang li and Oguntolu, F. A.</i>	<b>C20</b> A Model of the Mean-Variance (Risk and Expected Return in Investment) <i>Imande, I. I., Mohammed, A. G., Abubakar, M. and Aondoakaa, J.</i>
<b>A21</b> Barinaadaa-Didi(B-D) Distribution: Statistical Properties and Applications <i>B. J. Nwikpe and I. Didi Essi</i>	<b>B21</b> A Mixture Model Approach for the Analysis of Zero-Inflated Data <i>Isa, A. M.</i>	<b>C21</b> Application of Linear Programming Techniques for Profit Maximization (A Case Study of Jejelaiye Bakery Firm, Igbo-Ora, Oyo State, Nigeria) <i>Fatoki, O., Hassan, F. A. and Ilo, H. O.</i>
<b>A22</b> Evolution of Population Growth Models and their Predictive Potentials in Population Projection <i>Oyamakin, S. O. and Wale-Orojo, O.</i>	<b>B22</b> Applications of Two Non-Central Hypergeometric Distributions of Biased Sampling Statistical Models <i>Adetunji, K. O., Alanamu, T., Adefila, E. J. and Muhammed, K. A.</i>	<b>C22</b> An Analysis of Latest CD4 Counts of HIV Infected Patients Using Logistic Regression Approach <i>Arum, K. C., Alokam, D. O., Oranye, H. E. and Ugah, T. E.</i>
<b>A23</b> On Appropriate Threshold Model for Modeling and Forecasting Exchange Rate of Some Selected Countries <i>Akintunde, M.O., Amusan, A.S., Alabison, R.M. and Masopa, A.N.</i>	<b>B23</b> Generalized Poisson-Gamma Empirical Bayes Model for Detection of Crime Hotspots in Nigeria <i>Mbata U. A., Adeleke, I. A., Olalude, G. A. and Amusan, A. S.</i>	<b>C23</b> Assessment of Some Demographic Variables on Academic Needs Achievement Among Undergraduate Students of Two Nigerian Universities: Implications for Sociologists of Education <i><sup>1</sup>Saba, M. D. and <sup>2</sup>Adetunji, K. O.</i>



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<b>A6</b> On a Comparative Analysis of Robust Estimation Methods in Linear Regression <i>Odiar, K. A. and Ekerikevwe, K. I.</i>	<b>B6</b> Modeling Geospatial Autocorrelations of Open Defecation Indicators in Nigeria <i>Ajao, I. O., Odeyemi, C. A. and Obafemi, O. S.</i>	<b>C6</b> Compulsory Industrial Training among Undergraduates: Statistical Review of Purposes, Prospects and Problems <i>Ikegwu, E. M., Ayodeji, A. A., Etisioro, C. O. and Muhammad, I. A.</i>
<b>A7</b> The Exponentiated Half-Logistic Skew-t Distribution with Application to Inflation rates in Nigeria <i>Adubisi, O. D., Abdulkadir, A. &amp; Chiroma, H.</i>	<b>B7</b> Generalization of Rayleigh distribution' with its Properties and Application <i>Abdulsalam, H. A. and Yahaya, A.</i>	<b>C7</b> Regression Analysis of Exponentiated Gumbel Type-2 Life time Model: Bayesian Approach <i>Ogunde, A. A., Chukwu, A. U. and Ajayi, B.</i>
<b>A8</b> On Statistical Modeling the Population Distribution of Heamophilia using Gene Sequencing Data for Enhancing Social and Health Security. <i>Omokaro B. and Nwanunu P.</i>	<b>B8</b> Comparison of Classical ARIMAX and ARIMAX with Lognormal Error Model <i>Shittu, O. I. and Bello, A. O.</i>	<b>C8</b> Stochastic Modelling of Infectious Diseases in a Constant Population <i>Olawuwo J. G., Ayansola O. A. and Olajide, J. T.</i>
<b>A9</b> Influence of Social Media Accessibility on the Academic Performance of Students in Federal Polytechnic Bauchi, Nigeria <i>Nenlat, R.R., Pam, D.D., Sa'ad, M. &amp; Ahisia, J. I.</i>	<b>B9</b> Application of Time Series Analysis to Federal Budgetary Allocations for Nigerian Education Sector <i>Eze, N. M., Yahya, W. B., Asogwa, O. C., Eze, C. M and Okonkwo, C. I.</i>	<b>C9</b> Statistical Properties of Cubic Transmuted Generalized Exponentiated Distribution and Applications to Life time data <i>Eziche, O. N., Ogunde, A. A, Ajayi, B. and Omosigho, D. O.</i>
<b>A10</b> Analysis of Classification Methods Applied to Coronary Heart Disease Patients <i>Egbo, I.</i>	<b>B10</b> A Note on Exponential-Exponentiated Odd Generalized Uniform Distribution <i>Yahaya, A. and Doguwa, S. I.</i>	<b>C10</b> Box-Jenkins Modeling of Unemployment Rates in Nigeria <i>Agog, N. S., Bako, S. S., Bamanga, M. A. and Peter, M. and Yahaya, J. K.</i>

Day 2: Tuesday, 25 August, 2020

and **Bello, A. O.** (2020).” Comparison of Classical ARIMAX and ARIMAX with Lognormal Error Model” Professional Statisticians Society of Nigeria (PSSN) 1st Virtual Conference Monday 24th – Wednesday 26th August 2020