



# ICAWMSCS 2025: International Conference and Advanced Workshop on Modelling and Simulation of Complex Systems

## Tuesday, 22 July 2025

### Contributed talk: Room-2 (Statistics, Biostatistics and Epidemiology) - UI Campus/0-0 - Digital Park (10:25 - 11:25)

time	[id] title	presenter
10:25	[3] Hybrid Analytical Approach to Solving a Typhoid Fever Model: Laplace-Adomian Decomposition with Sensitivity Analysis	AGBATA, Benedict Celestine
10:40	[4] Harnessing mathematical modeling and simulation for epidemiology and public health for African development and advancement	MANIRU GIGANE, Aliyu
10:55	[5] ON THE ADVANCED PREDICTIVE MODELLING FOR CERVICAL CANCER DIAGNOSIS USING SUPPORT VECTOR MACHINE	OLADOJA, Oladapo
11:10	[6] Dynamics, Control and Stability of a Deterministic Avian Influenza Model	AKINGBADE, AKINSUYI JAMES

### Contributed talk: Room-2 (Statistics, Biostatistics and Epidemiology) - UI Campus/0-0 - Digital Park (12:00 - 13:00)

time	[id] title	presenter
12:00	[13] BRIDGING THEORY AND EPIDEMIOLOGY: A NEXT-GENERATION MATHEMATICAL MODEL FOR MALARIA ELIMINATION STRATEGIES.	Mrs AYEBBUSI, Florence Dammy
12:15	[14] An Ensemble Machine-Learning based Approach to predict Cervical High-risk Human Papillomavirus among women in Ibadan, Nigeria	Mrs OKE, Deborah
12:30	[48] Pairwise Network Models in Epidemiology: A Review of Approximations, Dynamics, and Applications	AREMU, Kazeem Olalekan
12:45	[41] MORPHO-ANATOMICAL STUDIES OF EIGHT SPECIES OF IXORA L. (RUBIACEAE) IN SOUTHWESTERN NIGERIA	SOLANKE, Temitope

### Contributed talk: Room-2 (Statistics, Biostatistics and Epidemiology) - UI Campus/0-0 - Digital Park (14:00 - 15:00)

time	[id] title	presenter
14:00	[9] A Comparative Analysis of Traditional and Structured Allometry Growth Models with Machine Learning Intergration	OKE, Samuel
14:15	[12] CONFIRMATORY ANALYSIS OF FACTORS AFFECTING RETENTION OF FEMALE STUDENTS IN TERTIARY INSTITUTIONS USING BAYESIAN LOGISTIC REGRESSION MODEL	OGUNDEJI, ROTIMI
14:30	[56] The Interplay of Gender on the Prevalence and Correlates of Depression Among Young People Living with HIV (YPLHIV) in Nigeria.	OGUNDIPE, Oluwatosin
14:45	[25] Predictive Mass and Volume Models for African Star Apple Based on the Geometrical Attributes	Dr OYEFESO, Babatunde AJAYI, Peace

### Contributed talk: Room-2 (Statistics, Biostatistics and Epidemiology) - UI Campus/0-0 - Digital Park (15:15 - 15:30)

time	[id] title	presenter
15:15	[55] Comparative analysis of maize cob-derived biochar on selected vegetables raised on dumpsite soil	OLUKOYEJO, Hannah