

## **Session Program**

**27–31 May 2024**



# **ICAWMSCS 2024: International Conference and Advanced Workshop on Modelling and Simulation of Complex Systems**

## ***Technical session 2***

OAU Campus, Ile-Ife, Nigeria, AFRIGIST, Main - Conference Hall  
Road 1, O.A.U Campus

## Tuesday 28 May

10:50

### Technical session 2: Technical Session 2

Session | Location: OAU Campus, Ile-Ife, Nigeria, AFRIGIST, Main - Conference Hall, Road 1, O.A.U Campus

10:50–11:00

#### A SYSTEMATIC LITERATURE REVIEW OF MACHINE LEARNING FOR MALWARE: METHODS, ALGORITHMS, PERFORMANCE, LIMITATIONS AND FUTURE RESEARCH DIRECTION

Speaker

Lawrence Emmanuel

11:00–11:10

#### Investigating the complexity in human mobility using information theory

Speaker

Oludairo Adetaju

11:10–11:20

#### STABILITY ANALYSIS OF EBOLA DYNAMICS TRANSMISSION

Speaker

Elizabeth Elijah

11:20–11:30

#### An Inventory Management for World Food Program (WFP) Beans Distribution to IDPs and Deteriorating Rate with Partial Backlogged Under Boko Haram Terrorists Caliphate in Nigeria.

Speaker

Mr Buba Hambagda

11:30–11:40

#### A Numerical Study of the effects of Fuel Injection timing on Engine Performance and Emission characteristics of Spark Ignition Direct Injection Engine

Speaker

Mr Abdulazeez B. Oni

11:40–11:50

#### TRANSMISSION DYNAMICS OF SCHISTOSOMIASIS-MALARIA DUAL INFECTION WITH OPTIMAL CONTROL

Speaker

Helen Olaronke Edogbanya

11:50–12:00

#### COMPUTATIONAL INVESTIGATION OF THE DYNAMICS OF PHYSICALLY BLOWN POLYURETHANE FOAM

Speaker

Sunday Opadiran

12:00–12:10

#### DYNAMICAL ANALYSIS OF DIPHTHERIA AND PERTUSIS CO-INFECTION WITH OPTIMAL CONTROL

Speaker

Helen Olaronke Edogbanya

12:10–12:20

#### RECYCLING OF MUNICIPAL SOLID WASTE: A DETERMINISTIC APPROACH.

**Speaker**

Nurat Olamide Abdurrahman

12:20–12:30

**Unraveling Complex Dynamics and Active Control of a Novel Multi-equilibrium Hyperchaotic Memristive-Based Variable-Boostable System**

**Speaker**

Emmanuel Olowoyo

12:30–12:40

**Angular Motion and Nonlinear Conservation Laws: A Study on the Flow of Eyring-Powell Hybrid Nanofluid over a Riga Plate**

**Speaker**

Mr Kazeem Kasali

12:40–12:50

**SOLUTION OF THE FRACTIONAL BURGER-HUXLEY EQUATION OF THE CAPUTO-FABRIZIO TYPE USING THE ABOODH TRANSFORM METHOD WITH THE REDUCED DIFFERENTIAL POLYNOMIALS**

**Speaker**

Adepeju Abimbola Oyewumi

12:50–13:00

**OPTIMAL ANALYSIS OF THE EFFECT OF D1 AND D2 VACCINES ON MEASLES VIRUS**

**Speakers**

Mr Matthew Ogunniran, Patience Adama

13:00