

**2nd African Symposium on Big Data, Analytics and Machine Intelligence and 6thTYAN
International Thematic Workshop
“Data Science for Solution-driven and Sustainable Response to current developing
world challenges”
Updated Program (Time in GMT)**

Thursday (Day 1) 3rd Dec.	
7:00 – 7:30	Opening Ceremony Moderator – PRO FUTA
	Theme I – Data Science for COVID response and Impact Moderator – Dr. Selma Tekir Computer Engineering, Izmir Institute of Technology, Gulbahce Campus, 35430, Urla, Izmir Turkey Rapporteur – Dr. Oluwafemi Sarumi Department of Computer Science, Federal University of Technology, Akure, Nigeria
7:30 – 8:00	Keynote Presentation I – Prof. Olawande Daramola Faculty of Informatics and Design, Department of Information Technology, Cape Peninsula University of Technology, Cape Town, South Africa Topic: AI and Data Science for COVID Response in Resource-limited Settings: Affordances, Possibilities, and Challenges
8:00 – 8:15	Invited Sessions I. Dr. UtkuKose Suleyman Demirel University, Dept. of Computer Engineering, Faculty of Engineering, Isparta, Turkey Topic: Data SciencefortheWorld After COVID-19
8:15 – 8:30	II. Dr. BolanleOjokoh Dept. of Information Systems, Federal University of Technology, Akure, Nigeria Topic: Data Sciencefor COVID ImpactonAgriculture and Agro-allied in selected West AfricanCountries
8:30 – 8:40	Q&A
8:40 – 8:50	Oral Presentations I. Dr. ValereSalako Laboratory of Biomathematics and Forest Estimations, University of Abomey-Calavi, 04 BP 1525, Cotonou, Benin Topic: On the reliability of predictions on COVID-19 dynamics: a systematic and critical review of modelling techniques
8:50 – 9:00	II. Prof TulayYidrim Technical University, Faculty of Electrical and Electronics Engineering, Department of Electronics and Communications Engineering, Istanbul, Turkey Topic: Data Privacy Issues Arising with COVID-19
9:00 – 9:10	III. ProfOlatubosunOlabode DepartmentofInformationSystems, Federal UniversityofTechnology, Akure, Nigeria Topic: Ensemble Machine LearningClassificationalgorithmsfor Diagnosis and Predictionof COVID-19 severitylevel
9:10 – 9:20	IV. MrslyanuPelumiAdegun Federal University of Technology Akure Rufus Giwa Polytechnic, Owo, Nigeria Topic: Modelling and predicting the spread of COVID-19: a continental review and analysis

9:20 – 9:30	<p>V. MrOluwasegunSomefun Dept. of Computer Engineering, Federal University of Technology, Akure, Nigeria Topic: On the nlogistic-sigmoid modelling for complex growth processes: in application to the COVID-19 pandemic</p>
9:30 – 9:40	Q&A
9:40 – 10:00	Break/ Networking/Exhibition
	<p>Plenary Session I (Theoretical Concepts of Data Science and other Applications) Moderator – Dr. Bolanle Ojokoh Rapporteur – Dr. Arome Gabriel</p>
10:00 – 10:25	<p>I. Prof. Carlos Coello CINVESTAV-IPN, Departamento de Computacion, Mexico City, Mexico Topic: AnOverviewofEvolutionary Multi-ObjectiveOptimization</p>
10:25 – 10:50	<p>II. Prof. Fernando Buarque Computer Engineering Doctoral Program - School of Engineering - University of Pernambuco, RuaBenfica, 455 - Recife/Pernambuco, Brazil. Topic: Curbingthe data volume and combinatorialcomplexityon Gene Regulatory Networks withSwarmIntelligence</p>
10:50 – 11:15	<p>III. Prof. Ming Zhang School of Electronic Engineering and Computer Science, Peking University, Beijing, China Topic: Graph Representation Learning for Drug Discovery</p>
11:15 – 11:30	Break/ Networking/Exhibition
	<p>Theme II – DataScienceand Sustainability Issues Moderator – Dr. FrederickAdzitey University for Development Studies, Department of Food Scienceand Technology, Tamale, Ghana Rapporteur –Dr. Abimbola Afolayan Dept. of Information Systems, Federal University of Technology, Akure, Nigeria</p>
11:30 – 12:00	<p>Keynote Presentation II – Prof. TshilidziMarwala Vice-Chancellor and Principal, University of Johannesburg, South Africa Topic: Closingthe Gap: TheFourth Industrial Revolution in Africa</p>
12:00 – 12:15	<p>Invited Sessions I. Dr. Lipika Deka Faculty of Computing Engineering and Media, De Montfort University, Leicester, United Kingdom Topic: Data ScienceforSustainableAgriculturalPractices</p>
12:15 – 12:30	<p>II. Dr. Kehinde Ladipo Laboratory of Molecular Biology, Immunology and Bioinformatics, Department of Microbiology, Adeleke University, Ede, Osun State, Nigeria Topic: Developing a sustainableapproach and strategiesforembeddingtechnology and innovation in scienceeducation in Nigeria'stertiaryinstitutions</p>
12:30 – 12:40	Q&A
12:40 – 12:50	<p>Dr Oluwafemi A. Sarumi Department of Computer Science, Federal University of Technology, Akure, Nigeria Topic: Contact tracing technologies as a viable approach for alleviating the spread of COVID-19</p>

12:50 – 13:00	<p>Mr Timothy Ogunleye Department of Statistics, University of Ilorin, Nigeria Topic: The Fight against COVID-19 Pandemic in Nigeria: A Situational Analysis of the Most Affected Zone</p>
13:00 – 13:10	<p>Mr Sola Babalola Elizade University, Ilara-Mokin, Nigeria Topic: Anti-vaxxers: an approach to identify and balance views using news analytics and scientometrics</p>
13:10 – 13:20	<p>Dr. Olatunji Omisore Research Center for Medical Robotics and MIS Devices, Shenzhen Institutes of Advanced Technology, CAS, Shenzhen, China. Topic: Flexible Snake-like Robotics Control: Motion and Trajectory Planning</p>
13:20 – 13:25	<p>Mr. Olanrewaju Victor Johnson Department of Computer Science, Federal Polytechnic, Ile-Oluji, Ondo State, Nigeria Title: p-Agriculture: Improving Weather Predictability Using Ensemble Learning Techniques toward Sustainable Agriculture</p>
13:25 – 13:30	<p>Dr. Olorunshogo Jacob Mebawondu Computer Science Dept, School of Information Technology, Nasarawa, Nasarawa State Topic: Modeling of Nigerian Service Providers' Audio Quality of Service using Supervised Machine Learning</p>
13:30 – 13:40	Q&A
13:40 – 13:50	Break/ Networking/Exhibition
13:50 – 14:40	<p>Poster Session Moderator – Dr. Emile Chimusa University of Cape Town, Research & Innovation, South Africa Division of Human Genetics, Department of Pathology, Institute of Infectious Disease and Molecular Medicine, Faculty of Health Sciences, University of Cape Town, South Africa. Rapporteur – Dr. Abiola Ezekiel Department of Chemical Engineering, Faculty of Engineering, Landmark University, Omu-Aran, Nigeria</p> <p>1. Dr Monday Osagie Adenomom Department of Statistics, Nasarawa State University, Keffi, Keffi, Nigeria Title: Curbing the trend of covid-19 in Nigeria using non- pharmaceutical Interventions and Mathematical models</p> <p>2. Mr Felix Akintola Federal University of Technology, Akure, Nigeria Title: Data Science and Lassa Fever</p> <p>3. Mr Olatunde Akintoye Department of Computer Science, Federal University of Technology Akure, Nigeria. Title: A Web Based Career Recommender System for Pre- University Students using Fuzzy Logic</p> <p>4. Miss Asegunloluwa Eunice Babalola Anchor University, Lagos, Nigeria</p>

Title: Personalized Health Monitoring Diet Recommender System for Adults Using Anthropometric Indices

5. Mr Babatunde Disu

Elizade University, Ilara-Mokin, Nigeria

6. Mrs Olametanmi Josephine Mebawondu

Computer Science Dept, School of Information Technology, Nasarawa, Nigeria

Title: Classification of Multi-Class and Binary-Class Analysis using C4.5 and Naive Bayes Algorithms

7. Mr Feyi Oluwasanmi

Gaspert Trust Technical Services Ltd, Akure, Ondo State, Nigeria

Title: Optimizing solid waste generation and management techniques in Nigeria: a case study of Akure Metropolis

8. Mrs Fadekemi Adediwura Adetoye

Unique Choice Computer and information Technology, Akure. Nigeria

Title: Intrusion Detection using Association Rule and Support Vector Machine

9. Miss Olutoroti Jane Mebawondu

Electrical Electronic Engineering Dept, Federal University of Technology Akure, Nigeria , Nigeria

Title: Obstacle Detection using Ultrasonic Sensor and Location Based Component in a Microcontroller System

10. Mr Oluwafemi Joshua Adebile

Department of Computer Science, Federal University of Technology Akure, Nigeria.

Title: Online Recommender System

11. Dr Israel Ropo Orimoloye

Centre for Environmental Management University of the Free State Bloemfontein, South Africa

Title: Facilitating agricultural drought disaster risk management through space-based information

12. Prof Eman Nossier

Al-Azhar University, Faculty of Pharmacy (Girls), Pharmaceutical Medicinal Chemistry Department, Cairo, Egypt

Title: Design, Synthesis, Cytotoxic Activity and Molecular Docking of Novel Triazole-Thienopyrimidine Hybrid Glycosides Targeting EGFR

13. Mr Oluwaseun Jinadu

Directorate of Procurement Naval Headquarters, Area 8, Garki, Abuja, Nigeria

Title: The Use of Divide and Conquer Classification Models and other Optimized Techniques Towards Real- Time Data Analytics: a case study of sentiment analysis of COVID -19 Related Tweets

14. Dr Frederick Adzitey

University for Development Studies, Department of Food Science and Technology,

Box TL 1882, Tamale, Ghana

Title: Impact of COVID-19 on butchers in Ghana: A case study in Tamale

15. Dr Kouanou Aurelle Tchagna

College of Technology-University of Buea- Cameroon

Title: Biomedical Image Classification for Corona Virus Detection using Spark Framework with Deep Learning

16. Mr Mahmoud Ahmed Warda Warda

33 El Bohouth St. El Dokki , Giza National Research Center of Egypt

17. Mr Nnaemeka Success Esiobu

Department of Agricultural Economics, Imo State University Owerri, Nigeria

Title: How Does COVID-19 Pandemic Affect Rice Yield? Lessons from, Southeast Nigeria

18. Dr Godwin Ubi

Department of Genetics and Biotechnology, Faculty of Biological Sciences, University of Calabar, Calabar, Nigeria

Title: Data science for health related applications using bioinformatics and genome sequencing

19. Dr Ramia Al Bakain

The University of Jordan, Department of Chemistry, Jordan

Title: Comprehensive chromatographic profiling of cannabis from 23 USA States marketed for medical purposes

20. Dr Bukola Badeji-Ajisafe

University of Medical Sciences, Ondo, Nigeria

Title: Fertility Analysis based on Data Mining Techniques

21. Dr. Mrs. Folasayo Titilola Fayose

Department of Agricultural and Bioresources Engineering, Federal University Oye-Ekiti, Nigeria

Title: Stage for Precision Agriculture Technologies for African Small Holders

22. Mr Diana MacKay

Aga Khan University, Canada

Title: Getting Started in Data Science -- Faculty and Administration Collaboration

23. Mr Lameck Agasa

Kisii University, Kenya

24. Mrs Yemi Fatokun

Osun State University, Osogbo, Nigeria.

Title: Development of a Health Cloud Big Data Security Model using Lattice Cryptography

25. Mr Adegboyega Adebayo

Computer Science Department, Federal University of Technology, Akure, Nigeria

Title: An improved Epidemiological Surveillance System using Big Data Analytics and Complex Adaptive Models

26. Dr Md. Anwar Hossain

Bangladesh Council of Scientific and Industrial Research, Dhanmondi, Bangladesh

27. Mr Abdulwahab Isiaka

Federal College of Agriculture, Akure, Nigeria

Title: An ANN model for Predicting distance learning student performance

28. Dr Oluyemi Adetoyi

Department of Electrical and Electronic Engineering, University of Ibadan, Nigeria

Title: Hardware Implementation of Intelligent Wireless Surveillance

29. Mr Chiedu Edoamodu

House 46, Old Hogsback Ring Road, UFH Campus, South Africa

Title: Molecular identification of Bacteria laccase producers

30. Miss Tolulope Adebayo

Department of Computer Science, Federal University of Technology, Akure, Ondo State, Nigeria

Title: Prescriptive Analytics for Publication Venue Recommendation

31. Dr Abiola Ezekiel Taiwo

Department of Chemical Engineering, Faculty of Engineering, Landmark University, Omu-Aran, Nigeria

Title: Data Science for Health-Tech Solution: Response To Covid-19

32. Mr Taiwo Olatunde

Department of Computer Science, Federal University of Technology, Akure, Ondo State, Nigeria

Title: Nigeria Paper Currency Serial Number Pattern Recognition System for Crimes Control

33. Mr Abayomi Olawumi

Federal University of Technology, Akure, Nigeria

Title: Classification of Electricity Consumers into Bands using Energy Data and Exogenous Variables in Nigeria

34. Dr Halleluyah Aworinde

College of Computing & Communication Studies, Bowen University, Iwo, Nigeria

Title: Increasing Agricultural Productivity in Africa using Discriminative Deep Learning Models for farmland Bird Invasion Identification and Dispersal System

35. Dr Ebenezer Ajayi

Instituto Ferreyra, Av Velez Sarsfield, Cordoba, Argentina

Title: Antileishmanial efficacy of 4 African vegetal extracts

	<p>36. Dr Adeyinka Abiodun Bowen University Iwo, Iwo Osun State Nigeria.</p> <p>37. Mrs Sadura Akinrinwa Computer Science Department, Federal University of Technology Akure, Nigeria Title: A study on Breast Histopathology Images Multi-Classification with Ensembles of Deep Convolutional Neural Networks</p> <p>38. Eng. Blessing Olatunde Abisoye 39. Dr. Mrs. Opeyemi Abisoye Computer Science Dept., Federal University of Technology,, Nigeria Title: Ensemble Feed-Forward Neural Network and Support Vector Machine for Prediction of Multiclass Malaria Infection</p> <p>40. Mr Oluwatobi Shadrach Akanji Federal University of Technology, Minna, Nigeria Title: Mitigating Slow Hypertext Transfer Protocol Distributed Denial of Service in Software-Defined Networks</p> <p>41. Mr Olubusade Adedayo 1, Jare Alade street Jericho/Idi-Ishin Ibadan, Nigeria Title: A Fuzzy Logic Control of Automated Irrigation System</p> <p>42. Mr Taiwo Fele Computer Science Department, Federal University of Technology, Akure, Nigeria Title: Digital Signal Classification using Spectral and Statistical Features in Wireless Communication and Cognitive Radio Network</p>
14.40 – 15:40	<p>Workshop I – Young Scientists’ Collaboration and Interaction: Way Forward (3 Break-out Sessions) Moderators – Group 1: Moderator - Prof. Sok Ching Cheong Head and Neck Cancer Research Group, Cancer Research Malaysia (510087-M), 2nd Floor, Outpatient Centre, Subang Jaya Medical Centre, 1, Jalan SS12/1A, 47500 Subang Jaya, Selangor, Malaysia Rapporteur: Dr. Olatunji Omisore Research Center for Medical Robotics and MIS Devices, Shenzhen Institutes of Advanced Technology, CAS, Shenzhen, China Group 2: Moderator - Prof. Collet Dandara University of Cape town, South Africa Rapporteur: Dr. Folasadelsinkaye Department of Computer Science, Ekiti State University, Ado-Ekiti, Nigeria Group 3: Moderator Dr. Olaniyi Fawole Department of Botany and Plant Biotechnology, Faculty of Science, University of Johannesburg, South Africa. Rapporteur: Dr. Oluwarotimi Samuel Research Center for Medical Robotics and MIS Devices, Shenzhen Institutes of Advanced Technology, CAS, Shenzhen, China</p>
15:40 – 15:50	Break /Networking/Exhibition
15:50 – 16:50	Exhibition/Hackathon

Friday (Day 2) 4th Dec	
7:00 – 7:20	SDG Session – Dr. Max Paoli Topic: Global Challenges and Sustainable Development: the Need for a Change of Mindset Moderator – Dr. Bolanle Ojokoh Rapporteur – Dr. Arome Gabriel
	Theme III – Data Science for Health related applications Moderator – Dr. Emile Chimusa University of Cape Town, Research & Innovation, South Africa Division of Human Genetics, Department of Pathology, Institute of Infectious Disease and Molecular Medicine, Faculty of Health Sciences, University of Cape Town, South Africa Rapporteur – Dr. Folasadelsinkaye Computer Science, Ekiti State University, Ado-Ekiti, Nigeria
7:20 – 7:50	Keynote Presentation III – Dr. Jacques Ludik Cortex Logic, South Africa Topic: AI-enabled, ultra-personalized health wellness
7:50 – 8:05	Invited Sessions I. Dr. Mustafa Ozuysal Izmir Institute of Technology, Department of Computer Engineering D129, 35430 Urla/Izmir, Turkey Topic: Diagnosing Scaphoid Fractures on Direct Radiography with Deep Learning
8:05 – 8:20	II. Dr. Oghenejokpeme Orhobor Department of Chemical Engineering and Biotechnology, University of Cambridge, Cambridge, United Kingdom Topic: Generating Explainable and Effective Data Descriptors using Relational Learning: Application to Cancer Biology
8:20 – 8:35	III. Dr. Emile Chimusa University of Cape Town, Research & Innovation, South Africa Division of Human Genetics, Department of Pathology, Institute of Infectious Disease and Molecular Medicine, Faculty of Health Sciences, University of Cape Town, South Africa Topic: Tantalizing Dilemma in Health Prediction from Genome-Wide Association Studies
8:35 – 8:45	Q&A
8:45 – 8:55	Mr Olayinka Ayodele Jongbo Ekiti State University, Ado-Ekiti, Nigeria Topic: Diabetes Mellitus Prediction Using Information Gain and Logistic Regression
8:55 – 9:05	Mr Akeem Babatunde Sikiru Department of Animal Production, Federal University of Technology, Minna, Nigeria Topic: Application of big-data for understanding the toxicogenomics of

	Aflatoxin B1 in animals and humans for promotion
9:05 – 9:15	Mr Samson Adebawale Abosede Topic: A fog computing based healthcare delivery system for hemorrhagic stroke patients
9:15 – 9:20	Mrs Afoussatou Amadou Research Unit in Applied Microbiology and pharmacology of naturals substances (URMAPHA), Benin Topic: Food contamination by mycotoxins: Major associated impacts and detoxifications actions
9:20 – 9:25	Dr.OluyemiGbadamosi Department of Fisheries and Aquaculture, Federal University of Technology. Akure, Nigeria Topic: Effects of dietary <i>Moringaoleifera</i> on zootechnical performance and expression of Heat Shock Protein Genes in African catfish
9:25 – 9:30	Q&A
9:30 – 9:40	Break /Networking/Exhibition
	Plenary and Invited Sessions (Data Science: Multidisciplinary view) Moderator – Dr. Bolanle Ojokoh Rapporteur – Dr. Abiola Taiwo Department of Chemical Engineering, Faculty of Engineering, Landmark University, Omu-Aran, Nigeria.
9:40 – 10:05	Plenary Session I. Prof. Virgilio Almeida Federal University of Mina Gerais (UFMG) Brazil Topic: Social and Ethical Impacts of Algorithms
10:05 – 10:30	II. Prof. Hesham El-Askary Center of Excellence in Earth Systems Modeling and Observations, Schmid College of Science and Technology, United States Topic: EarthObservationSolutionsaddressingSDGs in supportofkeyenvironmentalchallenges
10:30 – 10:45	Invited Session I. Dr. Enzo Ferrantes Research Institute for Signals, Systems and Computational Intelligence, CONICET, Universidad Nacional del Litoral Ciudad Universitaria UNL, Piso, Argentina Topic: Fairness in AI forhealthcare: Genderimbalance in medical imagingdatasets produces biasedclassifiersforcomputer-aided diagnosis
10:45 – 11:00	II. Prof. Aman Dekebo Department of Applied Chemistry, Adama Science and Technology University, P.O.Box 1888, Ethiopia Topic: Establishment of Natural Product Bank ofBioactivecompounds
11:00 – 11:10	Q&A
11:10 – 11:30	Break /Networking/Exhibition
	Theme IV- Data Analytics for Solution-oriented results Moderator – Dr. Selma Tekir Rapporteur – Dr. Oluwafemi Sarumi Federal University of Technology, Akure, Nigeria
11:30 – 12:00	Keynote Presentation IV – Dr. Ruth Lennon LetterkennyInstituteofTechnology (LYIT), Port Road, Letterkenny, Co. Donegal, Ireland

	Topic: DevOps for Security Analytics
12:00 – 12:15	Invited Sessions I. Dr. Selma Tekir Izmir Institute of Technology, Dept. of Computer Engineering, Gulbahce Campus, 35430, Urla, Izmir Turkey Topic: Text Analytics for Credibility Assessment: A Case Study of Grey Literature
12:15 – 12:30	II. Dr. Waseem Haider COMSATS University Islamabad (CUI), Pakistan Topic: Data Science for Bioinformatics and Genome Sequencing
12:30 – 12:40	Q&A
12:40 – 12:50	Prof Hassane Bouzahir National Engineering School of Applied Science, Ibn Zohr University, Morocco Topic: Impact study of loss function on the adversarial attacks methods
12:50 – 13:00	Dr John Oredo University of Nairobi, Nairobi, Kenya Topic: Predicting Users' Intention to Migrate from Freemium to Premium Cloud Storage Services: A Comparison of Machine Learning Classification Models
13:00 – 13:10	Eng. Castro Hounmenou BP1525 Cotonou Topic: A formalism of the mathematical expression of neural networks with multiple hidden layers and multivariate outputs
13:10 – 13:20	Dr Olufunso Alowolodu Department of CyberSecurity Science, Federal University of Technology, Akure, Nigeria Topic: Cloud Computing in Developing Economies: A Case Study of Nigeria
13:20 – 13:30	Mr Olawale Adeboje Federal University of Technology, Akure, Nigeria Topic: An adaptive negotiation multi agent system for e commerce system using Artificial Neural Networks
13:30 – 13:40	Q&A
13.40 – 13.50	Break /Networking/Exhibition
13:50 – 14.50	Workshop II – Advancing Science for Sustainability in the Developing World (3 Break-out Sessions) Moderators – Group 1: Moderator Dr. Rolando Gittens Center for Drug Discovery and Biodiversity, INDICASAT AIP, Panama Rapporteur: Dr. Olatunji Omisore Group 2: Moderator Dr. Yraima Cordeiro Federal University of Rio de Janeiro, UFRJ, Faculty of Pharmacy, Av. Carlos Chagas Filho, Rio de Janeiro, RJ, Brazil Rapporteur: Dr. Oluwarotimi Samuel Group 3: Moderator Dr. Franco Cabrerizo National University of San Martín (UNSAM), Argentina. Rapporteur: Dr. Arome Gabriel Department of CyberSecurity Science, Federal University of Technology, Akure,

	Nigeria.
14.50 – 15:50	Closing and Award Ceremony

