



# NIGERCON

2024 IEEE INTERNATIONAL CONFERENCE ON  
ELECTRO-COMPUTING FOR SUSTAINABLE DEVELOPMENT

**THEME**

**EMPOWERING HUMANITY:  
THE FUTURE OF ELECTRO-COMPUTING  
TECHNOLOGIES**



 26TH – 28TH NOVEMBER 2024

 AFE BABALOLA UNIVERSITY, ADO-EKITI, EKITI STATE.

<https://attend.ieee.org/nigercon-2024/>



IEEE  
COMPUTER  
SOCIETY



IEEE

# NATIONAL ANTHEM



Nigeria we hail thee  
Our own dear native land  
Though tribes and tongue may differ  
In brotherhood we stand  
Nigerians all, are proud to serve  
Our sovereign Motherland.

Our flag shall be a symbol  
That truth and justice reign  
In peace or battle honour'd,  
And this we count as gain,  
To hand on to our children  
A banner without stain.

O God of all creation  
Grant this our one request.  
Help us to build a nation  
Where no man is oppressed  
And so with peace and plenty  
Nigeria shall be blessed.

## NATIONAL PLEDGE

I pledge to Nigeria my country  
To be faithful, loyal and honest  
To serve Nigeria with all my strength  
To defend her unity  
And uphold her honour and glory  
So help me God.

## ABUAD ANTHEM

ABUAD we come, oh ABUAD we come  
Founded by Afe Babalola, a believer in industry and determination  
A unique environment with aesthetic structures,  
A beacon in University, delivery unequalled;  
Design for high quality education;  
To mould character and infuse knowledge;  
Out to lead others;  
Proud of ABUAD, the launching pad to excellence  
With determination, and faith in ABUAD, philosophy of industry,  
service and character;  
Our future for greatness and excellence is assured.

## Special Guest of Honour

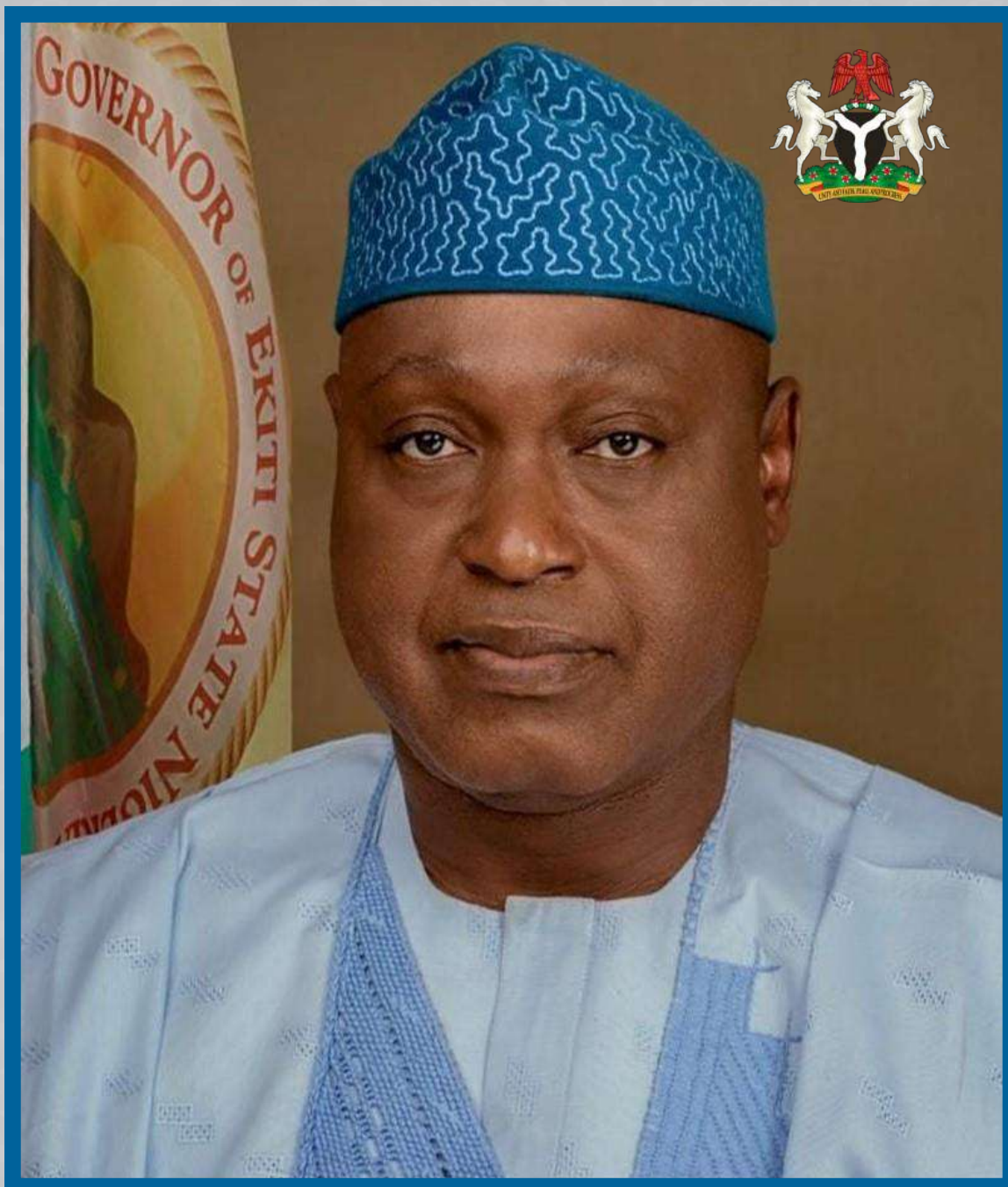


His Excellency

**Senator Bola Ahmed Tinubu** GCFR

President and Commander -in- Chief of the Armed Forces,  
Federal Republic of Nigeria

## Special Guest



His Excellency  
**Mr. Biodun Abayomi Oyebanji**  
Executive Governor, Ekiti State, Nigeria

## Chief Host

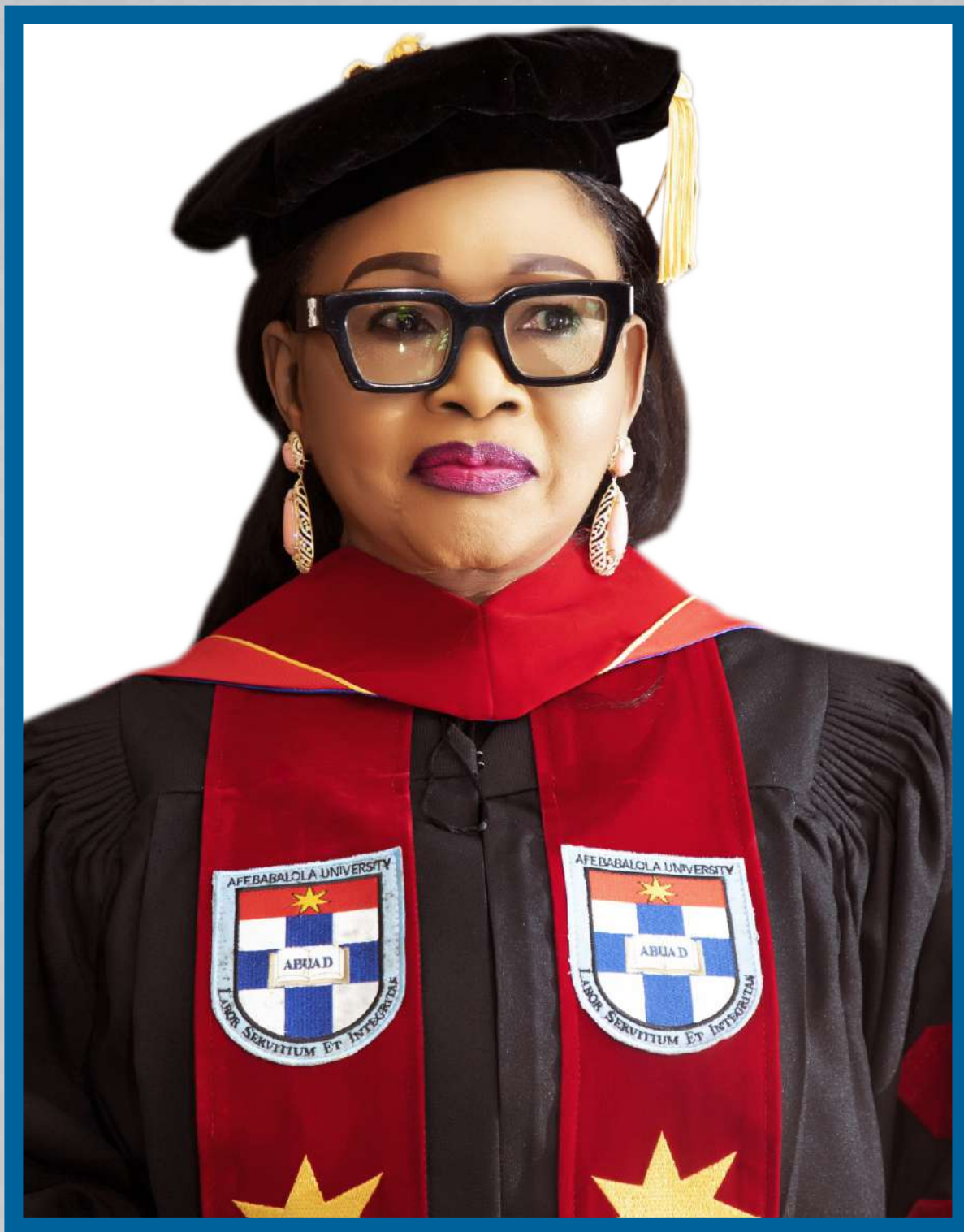


### **Aare Afe Babalola**

OFR, CON, SAN, FNIALS, LL.D (London), LL.D (UNILAG), FCIArb,  
D.Lit (NDA), FKC (London)

**FOUNDER & CHANCELLOR**

Afe Babalola University, Ado Ekiti, Nigeria



**Yeye Aare Modupe Babalola,**

FSM, FNIMN, FPPA

**CHIEF EXECUTIVE**  
ABUAD Ventures

## Host



**Professor E. Smaranda Olarinde**, FCArb, FCAI  
Vice Chancellor,  
Afe Babalola University, Ado-Ekiti, Nigeria.

## Host



### **Prof. (Mrs) Ifeyinwa Eucharía Achumba**

BSc. (Nig.), MEng (Nig.), PhD, Post Doc (Portsmouth, UK)

MNCS, MNSE, COREN Reg, CPN Reg, FFTF Fellow.

Chair, IEEE Nigeria Section



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Olufemi Balogun  
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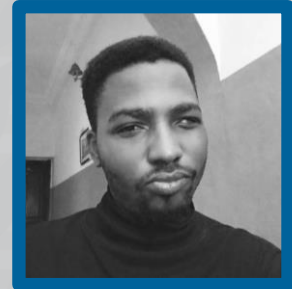
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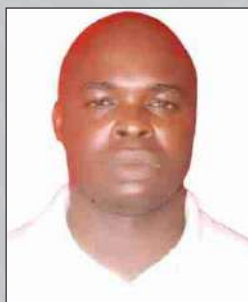
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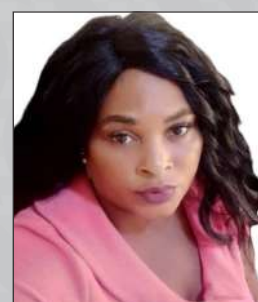
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## About 2024 IEEE NIGERCON



The 5th IEEE Nigercon conference with theme “Empowering Humanity: The Future of Electro-Computing Technologies” at Afe Babalola University, Ado-Ekiti, Nigeria from 26-28 November, 2024, focuses on the transformative impact of advanced electro-computing technologies on society. It emphasizes how innovations in fields such as artificial intelligence, machine learning, robotics, and IoT can drive progress across various sectors, including healthcare, education, industry, and communication.

The conference aims to explore cutting-edge research, foster collaborations, and discuss practical applications that enhance human capabilities, improve quality of life, and address global challenges. By bringing together experts, researchers, and practitioners, the event seeks to chart a course for the future development and integration of these technologies to benefit humanity. The interface between Engineering and Computing technologies would also be explored under the following thematic areas:

- Track 1: Artificial Intelligence and Machine Learning
- Track 2: Internet of Things (IoT) and Smart Systems
- Track 3: Robotics, Automation, Big Data & Analytics
- Track 4: Cybersecurity and Privacy
- Track 5: Healthcare Technologies
- Track 6: Telecommunications & Sustainable Technologies
- Track 7: Engineering Education, Safety & Humanitarian Activities
- Track 8: Power Generation, Transmission & Distribution, Renewable Energy and Management

## Message from the Organizing Committee

Dear Attendees,

Welcome to the IEEE 5th International Conference on Electro-Computing Technologies for Humanity, NIGERCON 2024! We are delighted to have you here at Afe Babalola University, Ado-Ekiti, Nigeria, for what promises to be a dynamic gathering of innovators, researchers, and industry leaders from around the globe.

Our theme, "Empowering Humanity: The Future of Electro-Computing Technologies," reflects our mission to explore impactful applications and groundbreaking advancements across fields such as AI, IoT, robotics, and sustainable systems. This event provides a unique platform for interdisciplinary collaboration, where academic and industry perspectives unite to shape a future empowered by technology.

The organizing committee has prepared a rich program, including technical sessions, keynotes, and workshops, designed to foster deep insights, productive exchanges, and networking opportunities. We hope each of you will take this opportunity to learn, share, and build lasting connections.

Thank you for being part of NIGERCON 2024. Together, let's drive the future of electro-computing technologies for the benefit of humanity.

Warm regards,

### Conference General Chairs



Engr John Funso-Adebayo  
Chair, 2024 IEEE NIGERCON



Engr Dr Reginald Ekene Ogu  
Co-Chair, 2024 IEEE NIGERCON

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Chair, Local Organizing Committee



Engr James Nmezi  
Chair, Publicity Committee



Prince Ikenna Ibe  
Chair, International Advisory Committee

## Speaker



### **Prof Mousmi Ajay Chaurasia**

- Mousmi Ajay Chaurasia is working as a Professor in the Department of Computer Science and Engineering at Koneru Lakshmaiah Education Foundation, Hyderabad. She is a Senior Member of IEEE and serves in different capacities in the IEEE section, region, and global level. She is a recipient of the 2020 Significant Volunteer Award from the IEEE Hyderabad Section. She has 30 research publications and six patents to her name.
- She has worked in South Korea and Saudi Arabia and handled various projects funded by respective governments. She has been part of several International Conferences and Workshops. Her research interests are Artificial Intelligence, Big Data, and Agricultural applications .

# Speaker



**Chukwudi Okpalajiaku** PhD

Chukwudi Okpalajiaku is a seasoned energy consultant with an extensive academic background in electrical engineering and energy economics . His expertise spans strategic advisory, project management, and financial analysis for energy and power assets .

He has successfully spearheaded large-scale projects, driven innovative solutions, and facilitated complex cross-border transactions within the energy and power sectors. He is an active member of distinguished professional bodies, including the IEEE.



# Speaker



## Rupal Jain

Rupal Jain is an accomplished leader and innovator in the semiconductor and electronics industry, with extensive experience managing global teams across ASEAN, the USA, Singapore, and Taiwan. A Senior IEEE Member and Honorary Member of Sigma Xi, Rupal brings expertise in quality management, AI applications, and operational strategy, making her a sought-after expert in chip manufacturing. Her qualifications include PMP, CSM, and Lean Six Sigma Black Belt certifications, underscoring her commitment to excellence in project and quality management.

Rupal has been recognized with multiple prestigious awards, for Excellence in Quality Management and Operation Strategy. Her influence extends through board roles as an industry mentor with organizations such as the Adani Institute (AIDTM) and IEEE India Council, as well as her role as an Executive Ambassador for ISSIP. A published author, her work on semiconductor industry advancements has garnered media attention in outlets like EE Times and EPS News. Known for her thought leadership, Rupal frequently serves as a jury member for global competitions and is deeply invested in mentoring, shaping the next generation of industry professionals.

# Speaker



## **Prof Marwan Al-Akaidi**

Ag. Vice Chancellor, Wigwe University, Isiokpo

Professor Marwan Al-Akaidi is a distinguished leader in Computer Science and Engineering with a transformative impact on academic and research institutions across Europe and the Middle East. With an educational foundation in Electrical and Electronic Engineering (BSc, MSc, and PhD) from the UK, he holds esteemed professional accreditations including Chartered Engineer (CEng), Chartered IT Professional (CITP), and Fellowships with the IET, BCS, and IAP.

Throughout his career, Professor Al-Akaidi has held influential leadership roles, fostering institutional innovation and spearheading pioneering academic programs. As the Head of a major School of Engineering & Technology in the UK, he established renowned media and creative technology programs in partnership with the BBC, enhancing the institution's leadership in media technology. His tenure as Vice President of Academic Affairs at a regional open university saw significant expansion of fully accredited programs across MENA, alongside the launch of international academic journals, MOOCs, and blended learning initiatives. In Dubai, he served as Vice President for Research and Dean of a College of Computer & Information Technology, where he founded a Blockchain Centre in collaboration with Dubai Blockchain and hosted high-profile international conferences, positioning the university as a leader in blockchain and emerging technologies.

# Speaker



**Joseph Eaton**

Joseph Eaton is a seasoned Data Scientist with a passion for leveraging data-driven insights to empower organizations and drive economic growth. With extensive experience in database and data warehouse design and implementation, business intelligence, research, data products, data engineering and analytics, Joseph has held various roles across different industries. While in Nigeria, he supported the development and implementation of the health workforce registry in the Federal Ministry of Health and across many state health ministries, worked in health and social welfare systems strengthening projects funded by USAID, CDC, Ford Foundation, Global Fund and UNICEF. He also worked with various federal and states ministries parastatals including Nigerian Universities commission, National Population Commission, National Bureau of Statistics, and National Identity Management Commission. His broad expertise encompasses cloud solutions (AWS, Microsoft Azure, and GCP), database design, ETL processes, and analytics, skills that he has harnessed to make a positive impact across both public and private sectors.

With a Master's degree in Applied Data Science from the University of Sunderland, Joseph's academic background is complemented by hands-on experience in creating data-driven solutions, from analysing research data to developing analytical frameworks for SMEs. His recent work has focused on the growth potential of SMEs through data awareness and generation, advocating for the power of data to unlock new opportunities and economic growth sustainability.

Currently based in the UK, and has worked in various organisations like Eon Next Energy Limited, Solihull Council, Sensmart Limited, Hexis Lab and Pylalink Innovation Ltd as a data analyst and data engineer. Joseph actively shares his knowledge with the tech community. His GitHub and LinkedIn profiles reflect his commitment to transparency and collaboration within the field, as well as his contributions to innovative projects like yapilli and MiliaPay. He volunteers with St. John's Ambulance, Your Voice Count and other charity organisations and holds memberships in IEEE, British Computer Society, Data Council and Operational Research Society.

Whether mentoring, presenting, or innovating, Joseph remains dedicated to advancing data science practices that enable organizations to adapt and thrive in an increasingly data-centric world.

## Opening Speech by the Chair, IEEE Nigeria Section at NIGERCON 2024 Conference



Good morning, distinguished guests, esteemed colleagues, and honored participants, On behalf of the IEEE Nigeria Section, I am delighted to welcome you to the 5th IEEE International Conference on Electro-Computing Technologies for Humanity—NIGERCON 2024. It is a privilege to stand before such a distinguished gathering of innovators, researchers, industry leaders, and thought pioneers, all united by a common purpose: to explore and advance technologies shaping our future.

This year's theme, "Empowering Humanity: The Future of Electro-Computing Technologies," is both timely and ambitious. It underscores the transformative role of emerging technologies—artificial intelligence, the Internet of Things, robotics, and sustainable systems—in reshaping society. What was once the realm of science fiction is now an integral part of our daily lives, driving progress in healthcare, education, industry, and beyond. As members of IEEE and participants in this conference, we find ourselves at the forefront of this technological evolution, harnessing electro-computing to address some of the world's most pressing challenges.

As we convene here at Afe Babalola University (ABUAD), let us not only focus on advancing technology but also on ensuring that these innovations are inclusive, ethical, and impactful for all. Every presentation, discussion, and collaboration during this conference is a vital step toward this goal. Whether it is developing cybersecurity solutions to safeguard personal data, or creating sustainable telecommunications systems that bridge the digital divide, the work being presented here has the potential to effect lasting, positive change across communities worldwide.

NIGERCON has long been a platform where academia and industry converge to exchange knowledge, discuss practical applications, and inspire one another toward groundbreaking solutions. This year, we are pleased to offer an array of tracks covering AI and machine learning, healthcare technologies, power systems, and engineering education. These sessions are designed to foster dialogue, promote collaboration, and contribute to the shaping of the technological landscape, not only in Nigeria but globally.

As you engage in the discussions and sessions over the coming days, I encourage you to keep in mind our collective mission: to leverage technology for the greater good of humanity. Let us build lasting partnerships, share insights, and continue to push the boundaries of possibility. Together, we have the power to empower humanity through the transformative potential of technology.

Thank you for being here, and I wish you all a successful, inspiring, and impactful conference.

**Prof. (Mrs) Ifeyinwa Eucharía Achumba**  
*BSc. (Nig.), MEng (Nig.), PhD, PostDoc (Portsmouth, UK)*  
MNCS, MNSE, COREN Reg, CPN Reg, FFTF Fellow.  
Chair, IEEE Nigeria Section

# Program of Event



2024 IEEE NIGERCON Conference - November 26-28, 2024 - Afe Babalola University (ABUAD), Nigeria

Local Time (GMT+1)						
Activity	Start	End	Duration	Activity Title		
<b>Day 1</b>						
Day 1: Tuesday, 26 Nov	Setting-up	8:00	10:00	2 hrs	Arrival and Registration	
	Opening Ceremony	10:00	10:20	20mins	Official Opening - IEEE NIGERCON Conference 2024 (Venue: Alfa Begore Hall)	
		10:20	10:50	30mins	Speech: Prof OLARINDE Elisabeta Smaranda ABUAD VC (Venue: Alfa Begore Hall)	
		10:50	11:10	20mins	Opening Remarks: Engr Prof Ifeyinwa E. Achumba (Chair, IEEE Nigeria Section)	
		11:10	11:40	30mins	Opening of NIGERCON 2024: Aare Afe Babalola FOUNDER & CHANCELLOR Afe Babalola University, Ado Ekiti, Nigeria	
	Keynote	11:40	12:25	45mins	Keynote 1 - Next Generation Smart City - Prof Marwan Al-Akaidi (Venue: Alfa Begore Hall / Bogoro Building)	
	Refreshment	12:45	1:45	1hr	Lunch break	
	Keynote	1:45	2:30	45mins	Keynote 2 - Prof Mousmi Ajay Chaurasia - Sustainable Agriculture: Innovations for a Resilient Future (Venue: Alfa Begore Hall)	
	Breakout Paper Sessions	2:30	4:00	1hr 30mins	PAPER SESSIONS 1 (Ten Venues: Eng. board room (C34), Eng. conference room (A39), NI Lab (E15), FESTO lab, Computer Software Lab (B04), MHS Auditorium, Law Auditorium, Bogoro Building, SMS, Sciences Boardroom) - See paper Presentation Schedules	
Keynote	4:00	4:30	30mins	Keynote 3: Jupal Jain (Venue: Alfa Begore Hall)		
<b>DAY 2</b>						
Day 2: Wednesday, 27 Nov	Plenary	8:00	8:45	45mins	Keynote 4 - Analysis of Distributed Renewable Generation (DRG), Network Interconnection, and Optimization Strategies for the Global South - Chukwudi Okpalajiaku, PhD (Venue: Alfa Begore Hall)	
		8:45	9:30	45mins	Keynote 5 - Unlocking Nigerian SME Growth through Data Awareness and Generation - Joseph Eton (Venue: Alfa Begore Hall / Bogoro Building)	
		9:30	10:15	45mins	PELS, CS & GRSS/Sensors Council Panel Session: Benefits of IEEE Membership (Venue: Alfa Begore Hall / Bogoro Building)	
	Breakout Paper Sessions	10:15	11:45	1hr 30mins	PAPER SESSIONS 2 (Ten Venues: Eng. board room (C34), Eng. conference room (A39), NI Lab (E15), FESTO lab, Computer Software Lab (B04)MHS Auditorium, Law Auditorium, Bogoro Building, SMS, Sciences Boardroom) ) - See paper Presentation Schedules	
		11:45	1:15	1hr 30mins	PAPER SESSIONS 3 (Ten Venues: Eng. board room (C34), Eng. conference room (A39), NI Lab (E15), FESTO lab, Computer Software Lab (B04)MHS Auditorium, Law Auditorium, Bogoro Building, SMS, Sciences Boardroom) ) - See paper Presentation Schedules	
	Lunch	1:15	2:00	45mins	Lunch break	
	Breakout Paper Sessions	2:00	3:30	1hr 30mins	PAPER SESSIONS 4 (Ten Venues: Eng. board room (C34), Eng. conference room (A39), NI Lab (E15), FESTO lab, Computer Software Lab (B04)MHS Auditorium, Law Auditorium, Bogoro Building, SMS, Sciences Boardroom) ) - See paper Presentation Schedules	
	Breakout Paper Sessions	3:30	5:00	1hr 30mins	PAPER SESSIONS 5 (Ten Venues: Eng. board room (C34), Eng. conference room (A39), NI Lab (E15), FESTO lab, Computer Software Lab (B04)MHS Auditorium, Law Auditorium, Bogoro Building, SMS, Sciences Boardroom) ) - See paper Presentation Schedules	
<b>Day 3</b>						
Day 3: Thursday, November 28, 2024	Breakout Paper Sessions	8:00	9:30	1hr 30mins	PAPER SESSIONS 6 (Ten Venues: Eng. board room (C34), Eng. conference room (A39), NI Lab (E15), FESTO lab, Computer Software Lab (B04)MHS Auditorium, Law Auditorium, Bogoro Building, SMS, Sciences Boardroom) ) - See paper Presentation Schedules	
	Breakout Paper Sessions	9:30	11:00	1hr 30mins	PAPER SESSIONS 7 (Ten Venues: Eng. board room (C34), Eng. conference room (A39), NI Lab (E15), FESTO lab, Computer Software Lab (B04)MHS Auditorium, Law Auditorium, Bogoro Building, SMS, Sciences Boardroom) ) - See paper Presentation Schedules	
	Breakout Paper Sessions	11:00	1:30	1hr 30mins	PAPER SESSIONS 8 (Ten Venues: Eng. board room (C34), Eng. conference room (A39), NI Lab (E15), FESTO lab, Computer Software Lab (B04)MHS Auditorium, Law Auditorium, Bogoro Building, SMS, Sciences Boardroom) ) - See paper Presentation Schedules	
	Lunch	1:30	2:15	45mins	Lunch Break	
	Closing Ceremony	2:15	3:15	1hr	Closing Ceremony (Venue: Alfa Begore Hall / Bogoro Building)	

## Paper Presentation Venues and Details

### SESSION CHAIRS FOR IEEE NIGERCON CONFERENCE PRESENTATIONS

S/N	Venue	Track	Session Chairs
1.	Sciences Boardroom	Track 1: Artificial Intelligence and Machine Learning	<b>Chair:</b> Dr. Josephine Mebawondu <b>Co-Chair 1:</b> Dr. Olanike Christianah Akinduyite <b>Co-Chair 2:</b> Gbemisola Babalola
2.	Computer Software Lab (B04)	Track 2: Internet of Things (IoT) and Smart Systems	<b>Chair:</b> Engr. Dr. B.S. Adejumobi <b>Co-Chair 1:</b> Opani A. Aweh <b>Co-Chair 2:</b> Dr. P. Alase
3.	SMS PG Seminar Room (3 <sup>rd</sup> Floor)	Track 3: Robotics, Automation, Big Data & Analytics	<b>Chair:</b> Dr. A.T. Ogundele <b>Co-Chair 1:</b> Dr. Bosede Awoyemi <b>Co-Chair 2:</b> Dr. N.O. Omogbai
4.	College of Law Board Room	Track 4: Cybersecurity & Privacy	<b>Chair:</b> Dr. Udosen Jacob Idem <b>Co-Chair 1:</b> Dr. A. Akindipe <b>Co-Chair 2:</b> Dr. T.M. Azeez
5.	MHS Seminar Room (H44)	Track 5: Healthcare Technologies	<b>Chair:</b> Prof. Oghenerobor B. Akpor <b>Co-Chair 1:</b> Dr. Bukola Badeji-Ajisafe <b>Co-Chair 2:</b> Dr. O.L. Rominiyi
6.	Bogoro Building	Track 6: Telecommunications & Sustainable Technologies	<b>Chair:</b> Dr A.T. Adeniyi <b>Co-Chair 1:</b> Dr. Joseph Akinwumi <b>Co-Chair 2:</b> Mr. A.O. Adeniran (DVC office)
7.	Engineering Conference Room (A39)	Track 7: Engineering Education, Safety & Humanitarian Activities	<b>Chair:</b> Engr. Dr. Oluwadare Joshua Oyebode <b>Co-Chair 1:</b> Dr. I.P. Okokpujie <b>Co-Chair 2:</b> Dr. S.I. Monye
8.	Engineering Board Room (C34)	Track 8: Power Generation, Transmission & Distribution, Renewable Energy and Management	<b>Chair:</b> Engr. Dr. O. Osaloni <b>Co-Chair 1:</b> Dr. Oladapo Ibitoye <b>Co-Chair 2:</b> Babafemi J. Laoye
9.	FESTO Lab	Virtual	<b>Chair:</b> Dr. Afolabi Olakune Bamikole <b>Co-Chair 1:</b> Tope-Oke Adebusola <b>Co-Chair 2:</b> Engr. O. Agunbiade
10.	NI Lab (E15)	Virtual	<b>Chair:</b> Dr. Stephen Eyitayo Obamiyi, <b>Co-Chair 1:</b> Abimbola E. Fadugba <b>Co-Chair 2:</b> Engr. A. Itamakinde,

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- Engr. Dr Reginald Ogu – FUT, Owerri (Co-chair)

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- Engr. O. Imahé
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- Engr. Dr. O.J. Oyebode
- Engr. Dr. T.O. Ejidokun
- Engr. B.C. Finbarrs-Ezema
- Engr. Dr. M. A. Lala
- Engr. A.A. Avwunketa
- Engr. Dr. J.F. Orimolade
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- Engr. Dr. O.T. Ibitoye

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- Prof. Ifeyinwa Achumba, FUT, Owerri (Co-Chair)
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- **Registration Committee**

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- Engr. Chukwuemeka Okafor

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- Debora Otene – FU, Lafia
- Yusuf Mshelia – Nile University, Abuja
- Anointed Duru – FUT, Owerri

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- Prince Ibe (Chair)

# Notes





