



# -VOICE

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## HEADLINES

- Pg 1 >> E-LEARNING: EXPERTS AT NCS FORUM CALL FOR MORE TECH ADOPTION IN EDUCATION**
- PG 4 >> OKEBUKOLA: DIGITAL SKILLS, LOCAL CONTENT DEVELOPMENT KEY TO ECONOMIC GROWTH**
- PG 6>> NCS ABUJA CHAPTER ORGANIZED FIRST FELLOWS' INTERACTIVE SESSION ON JANUARY 20**
- PG 9>> COMMUNIQUÉ ISSUED AT THE E-LEARNING/IT EDUCATION FORUM**
- PG 12>> REPORT OF NCS KADUNA/ NACOS MEMBERSHIP DRIVE AND PARTNERSHIP INITIATIVE**
- PG 13>> NIGERIA'S TWITTER BAN LIFTING -GOOD NEWS!**
- PG 17>> UPCOMING EVENTS**

## E-LEARNING: EXPERTS AT NCS FORUM CALL FOR MORE TECH ADOPTION IN EDUCATION

In and lecture halls and classrooms, lessons have increasingly been complemented by digital tools and platforms, and this has been pushed further by the outbreak of Coronavirus Pandemic.



In other words, technology can and must be used to provide opportunities for all and bring about a future that is better and brighter than today as the rapid shift to digital teaching and learning during the COVID-19 pandemic has provided a lot of opportunities for innovation and creativity. This isn't to downplay experiences of disruption and hardship, but the acceleration of technology and the rise of digital learning have brought positive changes within education. Thus, the government through relevant agencies, must work with stakeholders in the education and technology space such as the Nigeria Computer Society (NCS), to achieve robust policies and programmes to prepare teachers for the technological advancements meant for the classrooms.

These are more and views shared by stakeholders at a Virtual E-Learning/IT Education Forum organised by the Education and Manpower Development Committee of the Nigeria Computer Society on Wednesday, January 19, 2022.

Setting the ball rolling, Prof Adesina Sodiya, president, Nigeria Computer Society, said the Forum which centered on a theme: 'Advancing Technology-based Learning in Nigeria: Prospects, Challenges and Strategies', is the first major event of the Society in the New Year as they consider Education principal on advancing innovation and the economy at large.

He referred to the NCS' Forum as the unifying platform for all stakeholders and interest groups in Nigeria with a common interest in moving education forward.

"NCS is the voice of IT experts in the country," he said. "Its goal is to enhance education and computer development, bring experts together to discuss the way forward in adoption of technology for the enhancement of the country's growth, deliberate, and strategize on how technology can be leveraged for educational growth, enhancing the quality.

According to Prof. Sodiya, NCS remains

resolute in its pursuit of the advancement and promotion of computing/information technology education and practice for the benefit of everyone.

Also speaking at the Forum, which drew attention of experts from within and outside the country, Mallam Adamu Adamu, the minister of Education, represented by Muhammad Lamud, expressed delight with the works of NCS over time, adding that the results are there to see across sectors of the economy, especially in the education sector

He thanked the Body for involving for its resilience in promoting technology advancements in the country, particularly in the education sector.

The representative of the Teachers' Registration Council of Nigeria, Ugo-Ali Lawrence described the timing of the programme as apt especially with the impact of COVID 19 pandemic on the sector, and the fact that Nigeria needs to meet up with other advanced countries.

"With the support of UNICEF and several bodies, digital literacy programmes, e-learning training and others have been organised to improve teachers efficiency.

"The Teachers' Registration Council of

Nigeria recognises that young teachers are the future of digital education and are doing everything possible to enable them bring their knowledge and competencies and is willing to work closely with Nigerian teachers to enhance their digital skills.

Kole Jagun, president/chairman of Council, Computer Professionals (Registration council) of Nigeria (CPN) noted that the advent and persistence of the pandemic changed the face of education across Nigeria, and globally, over 1.2 million students are now out of class rooms. "The education system is susceptible to external dangers," he said.

"Nigeria needs notable addition of e-learning in order not to lag behind, solutions and outcomes from the workshop will help review qualitative impact across the nation."

He concluded that the Computer Professional Regulation body in Nigeria will continue to work with NCS through the process.

Edidiong Lawrence Moses, head of Administration Technology, representing the Secretary General, Prof Yakubu said NCS has been critical in education enhancement in Nigeria and it is improving education quality in the country.

"The organisation is proud to identify with you in all your endeavors."

Prof Paulinus Okwelle reiterated that e-learning focus of this kind resonates with the current developments brought about by the pandemic.

"There is a compulsory computer course for all NCE students who must be proficient in IT and more programmes to enhance teachers' digital skills should be put in place", Okwelle said. "Mandate is observatory of quality educational practice across the world.

Earlier, Dr Mrs Florence Babalola, chairman of Education and Manpower Development Committee, explained that the workshop was initiated to provide direction to all stakeholders to the right path for the advancement and benefits of technology in education in Africa's most populous nation.

Prof Isa Ali Pantami, the minister of Communications and Digital Economy was represented by Dr Femi Adedoye while Kashifu Inuwa Abdullahi, DG of NITDA was represented by Dr Lawan Aminu.

# OKEBUKOLA: DIGITAL SKILLS, LOCAL CONTENT DEVELOPMENT KEY TO ECONOMIC GROWTH

The former Executive Secretary, National University Commission (NUC), Prof. Peter Okebukola has stressed the need for digital skills development among professionals of Computer Science and the need for the adoption of local content tools in any learning environment.

Citing the 2020 report on the state of university in Nigeria, Okebukola said the report further urged professors of Computer Science to regularly upscale their digital skills.

Okebukola gave the advice recently, while presenting a keynote paper at a webinar organised by the Nigeria Computer Society (NCS).

According to Okebukola, teachers in the universities would need to improve on their digital literacy skills.

“There is therefore urgent need to revise the university curriculum

and re-focus it on digital literacy. I am happy that the Teachers’ Registration Council of Nigeria (TRCN) is organising training programmes for university teachers to enhance their digital literacy skills. NUC has come up with a new curriculum and digital literacy is the major component of the new curriculum.

This is important because the acquisition of digital literacy skills is very important to every student, irrespective of their disciplines.”

Speaking about the importance of the new curriculum for schools, Okebukola said the digital literacy aspect of the new curriculum, made it a good trigger for the acquisition of relevant educational skills in schools. He equally stressed the need for refresher courses for teachers at all levels of education, including university education, adding that the professors at the universities

need to update their digital skills.

Okebukola also stressed the need for local content development across all learning centres, adding that the use of local contents in teaching and learning, will make the students learn faster with high level of retention on what have been thought. "I hate to see images and learning tools that are alien being displayed on power point presentations, because such will not impart good knowledge on the students. Teachers should be innovative enough in today's digital era to use indigenous contents for their teaching aids and tools," Okebukola said.

The Minister of Education, Mallam Adamu Adamu, who was represented by Mohammed Mahmud, said the Federal Ministry of Education would continue to place priority on Information Technology (IT) in education and e-learning.

Other speakers who made presentations at the NCS organised conference, spoke on

how to reinforce virtual learning environment in a digital era, as well as the new waves of innovation in computing and information technology training.

In his welcome address, the President of NCS, Prof. Adesina Sodiya, called on Nigerians to embrace digital education and to make use of technology to drive Nigeria's educational system and the economy.

# NCS ABUJA CHAPTER ORGANIZED FIRST FELLOWS' INTERACTIVE SESSION ON JANUARY 20, 2022.

As part of the annual programs of the Nigeria Computer Society (NCS) Abuja Chapter, for the first time in history, a Fellows' Interactive Session was successfully organized with the chapter's executives on January 20, 2022 at Pearls Learning Hub, Garki Area 1, Abuja and the

Fellows of the chapter cheerfully participated in the hybrid event.

According to the

Chapter Chairman, Mr. Olusegun Sunday Alabi, the purpose of the meeting was to enhance the relationship among the elders of the society, solicit for their support, ideas, knowledge and connections and more to help the Chapter in achieving its goals as well as sensitizing them on how to get involved in the Chapters activities, especially the Partnership



Program Initiative (PPI).

The National President, Prof. Simon Adesina Sodiya expressed his happiness with the level of participation at the meeting by interacting with all the participants and gave a thumb-up to the chapter executives for always coming up with

laudable initiatives, setting the pace for others. He then encouraged the Fellows to use their

experiences and resources to support the chapter's executives to move the society at large forward.

Two National Executive Council (NEC) members who are also members of the NCS Abuja Chapter, Mr. Ayodeji Rex Abitogun (Chairman Conferences Committee) and Mr. Bayo Mohammed Onimode (Ex-Officio,

North-Central Region) graced the occasion physically and admonished the Fellows to freely interact and be readily available when the chapter calls on them in whatever capacity and create time and resources to mentor the younger ones.

The Chapter Chairman presented the chapter's 2022 Annual Programs to the participants and sought for their involvement and participation with their wealth of experience to collaborate at every stage.

During the interactive session, the following recommendations and resolutions among others were made:

a. The Fellows' Interactive Session should be sustained to enhance relationship with the chapter executives.

b. The Fellows promised to be available for mentorship programs for younger professionals and be involved in the Partnership Program Initiative (PPI).

c. It is noted that Fellowship comes with responsibilities and Fellows pledge their support to sponsor

chapter's activities and members to the annual conferences.

d. Young IT Practitioners should be encouraged to take up roles in the Chapter's activities.

e. The Fellows also promised to get involved and support in the leadership roles of the chapter.

f. Reception programs should be organized for the corps members with IT related disciplines who serve in Abuja and the chapter can assist in their posting to work with some fellows, to get more members.

g. Chapter members should be encouraged to showcase their talents especially during Annual Conferences.

h. The CPN Registrar, Mr. Muhammad Bello Aliyu also promised to support the Chapter in his capacity as a member.



# THE INTERNATIONAL JOURNALS OF THE NIGERIA COMPUTER SOCIETY (NCS)

Submission of original research Manuscripts that have not been submitted for publication in another journal or already copyrighted are invited for publication in the following Nigeria Computer Society (NCS) Journals:

1. **Journal of Computer Science and Its Applications (JCSA):** The Journal covers the fields of Computer Science, Information and Communication Technologies.
2. **Journal of Information Security, Privacy and Digital Forensics (JISPDF):** The Journal accept articles from areas of Cyber and Information Security, Privacy, and Digital Forensics.

**Journal Editions:** June & December Every Year

### Submission of Manuscript:

Manuscripts should be written in English, double-spaced and single-sided, and should be numbered beginning with the title page. The first page of an article should contain the following:

1. Title of the paper (no more than 45 characters)
2. The name(s) of author(s) corresponding author should be indicated
3. Affiliation and address(es) of the author(s) including e-mail address(es).

An abstract not exceeding 200 words (formulae are not counted) should follow the title page on a separate sheet.

### Important Dates for Authors:

**June Edition:** March 31, 2022

**December Edition:** October 31, 2022

### Publication Dates:

**June Edition:** June 30, 2022

**December Edition:** December 31, 2022

### How to Submit:

All manuscripts should be submitted electronically as follows:

Journal of Computer Science and Its Applications: [jcsa@ncs.org.ng](mailto:jcsa@ncs.org.ng)

Journal of Information Security, Privacy and Digital Forensics: [jispdf@ncs.org.ng](mailto:jispdf@ncs.org.ng)

For further information, visit <https://library.ncs.org.ng/> or Contact:

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Plot 10, Otunba Jobi Fele Way, Central Business District, Alausa, Ikeja, Lagos State

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## **COMMUNIQUÉ ISSUED AT THE E-LEARNING/IT EDUCATION FORUM HELD VIRTUALLY, ON WEDNESDAY, 19<sup>TH</sup> JANUARY, 2022.**

### **1.0 Preamble**

Nigeria Computer Society (NCS), the umbrella body for all IT practitioners and interest groups, has a core mandate of promoting and developing computing education in Nigeria. NCS has renewed its commitment to this goal by introducing many strategies and programmes for improving the standard of education in Nigeria.

E-learning / Information Technology Education was conceived to accelerate the adoption of technology-based learning in our various schools and institutions. The theme of the Forum is *Advancing Technology-Based Learning in Nigeria: Prospects, Challenges, and Strategies*.

The paradigm shift in teaching and learning using technology resulting majorly from the advent of Covid-19 has compelled many educational institutions at all levels to switch forcefully to e-learning and all types of technology-based learning for effective teaching and learning delivery. NCS assembled stakeholders from academia, industry, and government to discuss and strategize for improved adoption of e-learning at all levels of the educational system in Nigeria. The forum also reviewed and assessed computing education in Nigeria for effective and qualitative impact in the nation. Participants were also exposed to the innovative ways of enhancing e-learning and computing education in Nigeria.

### **2.0 Attendance**

The Forum was well attended with over three hundred participants in attendance. The Forum was declared opened by the Chief Host, the President of NCS, **Professor Adesina Sodiya, FNCS**. In attendance were; the Honourable Minister of Education, ably represented by his technical assistant, Mal. Mohammed Mahmud, Mr. Kole Jagun **FNCS**, (President and Chairman in Council, Computer Professionals Registration Council of Nigeria), Captains of the industry, and Elders of the Profession.

Guest speakers at the forum were; **Prof. Peter Okebukola FNCS**, Chairman, Governing Council, National Open University of Nigeria; **Professor Don Passey**, Chairman, IFIP TC3, ICT and Education; **Chief Tim Akano FNCS**, MD/CEO New Horizon; **Dr. Abubakar Isah FNCS**, Director of ICT, Federal Ministry of Education; and **Dr. Michael O. Edeh**, HOD, Mathematics and Computer Science, Coal City University, Enugu.

Representatives from academia, government, policymakers, and corporate organisations in attendance includes; National Board of Technical Education (NBTE), The Executive

Secretary, Mr. Paulinus Okwelle, and Mr. Pius Okieghwo - National Commission for Colleges of Education (NCCE), Mr. Lawrence Ugo-Ali - Teachers Registration Council of Nigeria (TRCN), Mr. Eddidiong Moses Lawrence - Committee of Vice-Chancellors of Nigeria Universities (CVCNU), Mrs. Bekeere Amassoma - Oracle, Mrs. Stella Odessy - Odessy Educational Foundation, and Engr. Femi Williams - Chief Enabling Officer (CEO), New waves Ecosystem Limited.

### 3.0 Resolutions

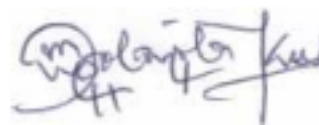
The forum examined the present and future (next five years) of e-learning infrastructure and tools, students' readiness, teachers' readiness, and deployment of e-learning. Based on the facts presented and discussed, the forum, therefore, affirms that:

- i.) Government should encourage international OEMs to build production plants in Nigeria to reduce the cost of digital devices.
- ii.) The telecom industries should support technology-based learning by creating separate educational data rates.
- iii.) Government should improve the supply of electricity across the nation for improved adoption of technology-based learning.
- iv.) Federal ministry of education, Teachers Registration Council of Nigeria (TRCN), and National Teachers' Institute (NTI) should work with Nigeria Computer Society (NCS) to develop and implement modern digital literacy and capacity building programmes for teachers and students.
- v.) Federal ministry of education should work in conjunction with NCS and CPN to revise school curricula with emphasis on digital literacy.
- vi.) Heads and chief executives of schools and tertiary institutions should pay attention to the maintenance of infrastructure that supports/enable technology-based learning.
- vii.) Federal Ministry of education should work with NCS and NITDA in developing indigenous content for e-learning.
- viii.) TETFUND, corporate organisations, and other stakeholders should encourage technology-based education by providing adequate funding.

- ix.) Government should develop technology-based education techniques for the nomadic to reduce the security challenges the country is currently facing.
- x.) Corporate organisations providing e-learning services should work with NCS and CPN to further promote their products and services.
- xi.) There should be enhanced collaboration between government agencies and NCS for efficient delivery of e-learning in Nigeria.
- xii.) Government should develop sustainable strategies for enhancing students' participation in technology-based learning especially in the rural areas
- xiii.) There is a need for massive investment in computer education and e-learning in Nigeria. Government and corporate organisations should brace up and give adequate attention to this.
- xiv.) Government should increase the budget for education in Nigeria for technology-based learning to be properly developed in Nigeria.
- xv.) Private sectors should heavily support the provision and deployment of e-learning in our various institutions, as government cannot do it alone.
- xvi.) Lecturers of tertiary institutions and teachers should be provided with regular technological training and technical support needed for efficient e-learning delivery.
- xvii.) All teachers of Computer Education in primary and secondary school, and all lecturers of computing in tertiary institutions must register with NCS and CPN to promote professionalism.
- xviii.) Rapid national growth can be achieved through computing/Information Technology education and government at all levels must be committed to its development



Prof Adesina S. Sodiya FNCS  
President, NCS



Mr. Iyiola Ayoola  
Executive Secretary, NCS

# REPORT OF NCS KADUNA/NACOS MEMBERSHIP DRIVE AND PARTNERSHIP INITIATIVE

The Smart NCS Kaduna Chapter Version 2.0 Chairman Sheikh Musa Rahama alongside the Chairman membership Committee Mr Mohammad Ibrahim Yakubu, Chairman Education Committee Mr. Attans Kenneth Kayock and others had a synergy meeting with NACOS Kaduna Polytechnic and Kaduna State University, KASU. The meeting which was aimed at reviving other Chapters of NACOS, registering with NCS and the benefits of being a member.

Fruitful discussion was made on how to revive and register Institutions like ABU, FCE Kaduna, Nuhu Bamali Polytechnic, NDA Computer Science Cadets and Federal Cooperative College Kaduna to be part of NACOS as well as register as students' members with NCS.

Mr. Abdulraheem Bashir KASU NACOS President/ North West Coordinator appreciated the leadership of NCS Kaduna chapter, and further said that he has been working tirelessly to ensure that other institutions are registered with NACOS and NCS as well, he also promised to go round alongside the President of NACOS Kaduna Polytechnic to the institutions in question for sensitization.

The North West Coordinator, ably



represented by Mr. Olabanji Banwo FNCS, assured his readiness and support to NACOS and NCS at anytime, he went further to encourage the leadership of NACOS present.

Other members present spoke towards archiving the same goal, which is membership drive, support as well as benefits of being a member.

In conclusion, the NCS Chairman charged for action and not for long grammar, he also applauded Kadpoly NACOS Chapter and her President Mr. Habibu Abdurashheed for her performance at the last Hackathorn competition and charged all NACOS chapters in the state to seat up for the attendance of the upcoming:

1. NCS PANTAMI Hackathorn for Digital Economy in Abuja by February 23rd to 24th
2. AI Exhibition at the AI Submit in Nasarawa March 23rd to 25th
3. Up coming training, Workshop and Courses.

# NIGERIA'S TWITTER BAN LIFTING -GOOD NEWS!

**G**reat news it is, the announcement and opening of Twitter platform to Nigerian today, January 13, 2022!

It has not been easy over six months, for IT practitioners, especially those that run businesses on the social media platform but all the same, we are good now. No doubts, that business opportunities, incomes, collaborations, employment and others were lost during the period. It is important to note that Nigeria needs to regulate the cyberspace as new opportunities emerge and this needs to be done with care.

Although reactions to emerging issues are required to nip in the bud, unforeseen occurrences, we need to be proactive in our approach and this is a call on the Federal Government of Nigeria (FGN) in managing digital affairs with involvement of IT Professional bodies like Nigeria Computer Society (NCS), Computer Professionals (Registration Council of) Nigeria, Information Technology Association of Nigeria (ITAN), Indigenous Software Developers and Practitioners in Nigeria (ISPON), Nigerian Information Technology Professionals in the Civil Service (NITPCS) and so on.

Some of the conditions met to lift the Twitter ban include legal registration of its operations in Nigeria, Taxation, and managing prohibited publications in line with Nigerian laws. Good and better deal! This means in part, more money for the country through agreements with various social media platforms. This will also create opportunities for legal means to perform social media jobs. Thereby, getting the teaming youths doing legal businesses.

This is a welcome idea and we hope that Federal Government of Nigeria (FGN) will see this as an opportunity to gather the stakeholders in the IT industry for IT strategic plan and implementation for national development. Nigeria Computer Society (NCS) is always ready to partner with the Federal Government in ensuring that Nigeria is not short-changed in the ever-growing digital world. Prevention is better than cure!

**Olusegun Sunday ALABI**

Chairman, NCS Abuja Chapter



## YEAR 2022 EVENT PLANNER

S/N	EVENT TYPE	PROPOSED VENUE	PROPOSED DATE
1	IT Education/eLearning Forum	Virtual	January 19, 2022
2	NCS-Pantami Hackathon for Digital Economy	Abuja	February 23 <sup>rd</sup> & 24 <sup>th</sup> , 2022
3	Artificial Intelligence (AI) Summit	Nasarawa State	March 23 <sup>rd</sup> – 25 <sup>th</sup> , 2022
4	CISCO/ORACLE Training	Lagos	April 5 <sup>th</sup> to 7 <sup>th</sup> & April 18 <sup>th</sup> to 20 <sup>th</sup> , 2022
5	Research & Development Workshop	Enugu	May 2 <sup>nd</sup> to 4 <sup>th</sup> , 2022
6	Information Technology Professionals' Assembly (Computer Professionals Registration Council of Nigeria)	Abuja	May 18 <sup>th</sup> - 19 <sup>th</sup> , 2022
7	Cyber Security Forum & Workshop	Abuja	June 8 <sup>th</sup> – 10 <sup>th</sup> , 2022
8	Information Technology Business Forum	Virtual	June 28 <sup>th</sup> , 2022
9	Annual International Conference	Abeokuta, Ogun State	August 2 <sup>nd</sup> – 4 <sup>th</sup> , 2022
10	Grand Finale of the National IT Competition for Tertiary and Secondary Schools	Abeokuta, Ogun State	August 3 <sup>rd</sup> – 4 <sup>th</sup> , 2022
11	E-Health Forum and Workshop	Lagos State	September 12 <sup>th</sup> to 14 <sup>th</sup> , 2022
12	Workshop: Business Perspectives to Data Sciences and Artificial Intelligence	Kaduna State	October 4 <sup>th</sup> – 9 <sup>th</sup> , 2021
13	National Information Technology Merit Awards (NITMA) & Fellowship Conferment	Lagos State	November 17 <sup>th</sup> , 2022
14	National Information Technology Exhibition (NITEX) and Innovation Show	Lagos State	December 6 <sup>th</sup> – 8 <sup>th</sup> , 2022

**For Participation, Advertisement & Sponsorship of any of the Events, please contact:**

**National Secretariat:** Plot 10, Otunba Jobi Fele Way, Behind MKO Abiola Gardens,  
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# BECOME A MEMBER OF THE NIGERIA COMPUTER SOCIETY (NCS)

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## OUR MISSION

Advancement and Promotion of Computing/Information Technology Education and Practice for the benefit of all.

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- Mentorship
- International collaboration and partnerships
- Internships
- Supports for startups and young innovators
- Research and innovation funding
- Professional recognitions
- Exhibition of products and services of members
- Local content development
- And many more

To register, visit [www.ncs-portal.org.ng](http://www.ncs-portal.org.ng)  
For further information, visit [www.ncs.org.ng](http://www.ncs.org.ng)

**Come, Let us promote IT together in Nigeria.**

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# NCS INTERNATIONAL CONFERENCE 2022

The theme for the conference is Smart, Secure, and Sustainable Nation (S3N 2022)

## Sub-themes:

The thematic areas for this conference fall into three main areas: Smart, Secure, and Sustainable Nation. Authors are encouraged to align their submissions accordingly.

### 1. Smart Nation- Focus will be on design, regulatory, security, and auditing issues. Key thematic areas are

- Intelligent Cities- Design and Regulatory Framework
- e-Governance And Policy Framework
- e-Health and Smart Healthcare
- Precision and Intelligence Agriculture
- Regulation and Digital Consumer Privacy
- Smart Security and Surveillance System
- Software Systems and Architectures
- Applications and Tools
- Big Data Analytics and Applications
- Artificial Intelligence and Applications
- Computer Networks, Mobility and Pervasive Systems

### 2. Secure Nation - The focus here will be on the deployment of ICT solutions that handle issues relating to system security

- Critical National Infrastructure
- Intelligent and Decision Support Systems
- Cyber Security
- Call Tracking & Counter-Terrorism
- Computer Forensics & Information Auditing
- IT Governance and Ethics (Suggestion)
- Virus/Antivirus
- 5g Technology and Industrial Revolution

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International Conference on  
**Smart, Secure and Sustainable Nation**  
**(S3N 2022)**

2nd - 4th August, 2022

June 12 Cultural Centre,  
Abeokuta, Ogun State, Nigeria

**CALL FOR PAPERS**

<https://www.ncs.org.ng/event/international-conference>

### 3. Sustainable Nation - The focus here is on digital inclusiveness

- Citizen Engagement: Security, Privacy, and Trust
- Digital Economy and Technopreneur
- ICT in Education - The Future of Learning
- Future of Work: Ergonomics and Smart Culture
- Innovative Skills, Youth Innovation and Sustainable Productivity
- ICT Regulation
- Media, Applied Technology, and Communication
- Social Computing/Interactions

### Important Dates

Full Paper Submission Deadline - March 31, 2022

Notification of Acceptance - April 30, 2022

Final Manuscript & Registration - June 15, 2022

Conference Date - August 02-04, 2022



# STAY SAFE: PROTECT YOURSELF AND THOSE AROUND YOU

## THE COVID-19: WE WANT YOU TO STAY ALIVE

Dear professional colleagues, Nigeria Computer Society (NCS) as a Professional body in Nigeria are not oblivious of the pandemic ravaging the world called 'COVID-19'.

We care for our members. Therefore, we wish to inform our precious and distinguished members of the need to pay utter attention to basic preventive measures against COVID-19.

Stay aware of the latest information on the COVID-19 outbreak, available on the WHO website and through your national and local public health authority. Most people who become infected experience mild illness and recover, but it can be more severe for others.

Take care of your health and protect others by:

- a. Constantly getting basic preventive measures and current updates from WHO (<https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public>). Kindly always follow the guidelines as outlined
- b. Paying attention to national and international information on COVID-19
- c. Being an health ambassador by helping to sensitise the public on preventive measures against the virus
- d. Ensuring you always take advice from healthcare professionals
- e. Taking general measures to improve your health conditions

Nigeria Computer Society (NCS) wants our members to always be strong and healthy. Together we shall continue to build strong and virile IT Profession.

Stay Alive!!!

**Executive Secretary**  
NIGERIA COMPUTER SOCIETY (NCS)  
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<p><b>STAY AT HOME IF YOU ARE UNWELL</b></p>	
<p><b>WASH YOUR HANDS REGULARLY</b></p>	
<p><b>COVER COUGHS AND SNEEZES WITH FACE MASK OR DISPOSABLE PAPER TISSUES</b></p>	
<p><b>STAY 1.5 METRES AWAY FROM PEOPLE WHO ARE COUGHING OR SNEEZING</b></p>	
<p><b>AVOID TOUCHING YOUR FACE, NOSE AND MOUTH WITH UNCLEAR HANDS</b></p>	



[www.ncs.org.ng](http://www.ncs.org.ng)

# PANTAMI

## HACKATHON FOR DIGITAL ECONOMY

Organised by  
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www.ncs.org.ng

# International Conference on Smart, Secure and Sustainable Nation (S3N 2022) Call for Papers

**2nd-4th August 2022** **June 12 Cultural Centre, Abeokuta, Ogun State**

## Preamble

The emergence of connected cities and data-driven nations is making planning and decision-making easier at the global level. Different studies have ranked Africa low in adopting technology to build a safe, secure, and sustainable economy. At the heart of the technology driving innovation is data and citizens engagement. In transforming our nation to meet future demand, we must use technology to create a more sustainable and liveable present and secure future for our citizens. We must change our approach and challenge the status quo. Our quest for innovation leveraging research and development must increase. We must develop effective strategies to achieve a **Smart, Secure, and Sustainable Nation**.

The government, the citizens, and the business environment must invest in relevant technologies to compete in the global space. This approach requires the right team with new mindsets and skills. The 2022 International conference on "Smart, Secure, and Sustainable Nation (S3N'22)" will bring together policymakers within the government, business leaders, members of academia, professionals, and practitioners to deliberate on broad social, economic, and technology trends relevant to the development and sustainability of our nation.

## Scopes and Topics

We, therefore, welcome authors and speakers to be part of the S3N'22 - The 2022 International Conference on Smart, Secure and Sustainable Nation, scheduled to hold from the 2nd to 4th of August 2022 at the June 12 Cultural Centre, Kuto, Abeokuta, Ogun State Nigeria. Authors can now submit articles that present research results, innovative projects, literature surveys, and industrial experiences that describe the significant strategy in developing the next-generation digital economy relating to the theme and sub-themes.

## Sub Themes

The thematic areas for this conference fall into three main areas: **Smart, Secure, and Sustainable Nation**. Authors are encouraged to align their submissions accordingly.

### 1. Smart Nation- Focus will be on design, regulatory, security, and auditing issues.

Key thematic areas are

- Intelligent Cities- Design and Regulatory Framework
- e-Governance And Policy Framework
- e-Health and Smart Healthcare
- Precision and Intelligence Agriculture
- Regulation and Digital Consumer Privacy
- Smart Security and Surveillance System
- Software Systems and Architectures
- Applications and Tools
- Big Data Analytics and Applications
- Artificial Intelligence and Applications
- Computer Networks, Mobility and Pervasive Systems

### 2. Secure Nation - The focus here will be on the deployment of ICT solutions that handle issues relating to system security

- Critical National Infrastructure
- Intelligent and Decision Support Systems
- Cyber Security
- Call Tracking & Counter-Terrorism
- Computer Forensics & Information Auditing
- IT Governance and Ethics (Suggestion)
- Virus/Antivirus
- 5G Technology and industrial revolution

### 3. Sustainable Nation - the focus here is on digital inclusiveness

- Citizen Engagement: Security, Privacy, and Trust
- Digital Economy and Technopreneur
- ICT in Education- The Future of Learning
- Future of Work: Ergonomics and Smart Culture
- Innovative Skills, Youth Innovation and Sustainable Productivity
- ICT Regulation
- Media, Applied Technology, and Communication
- Social Computing/Interactions

## Participation Fee

	Early Bird March 1 - May 30, 2022	Mid Bird June 01 - July 15, 2022	Venue
NCS Member	₦50,000	₦55,000	₦65,000
Non Member	₦60,000	₦65,000	₦75,000
Student Member (NACOS) NCS-Registered	₦15,000	₦20,000	₦25,000
Student Non NCS Member	₦20,000	₦25,000	₦30,000
Virtual Participants	₦40,000	₦40,000	-
Authors	₦70,000	₦75,000	-
International Authors	\$200	\$250	-

## Instructions to Authors:

- Authors are to submit full papers in English on original work intended for presentation at the conference. Only full papers submitted through [easychair](https://easychair.org/cfp/S3N2022) will be considered. Please use the link <https://easychair.org/cfp/S3N2022> to submit your paper.
- Paper submission must include full details of authors (names, addresses, and e-mails) and their affiliations.
- All Papers should not be more than 4,000 words, single-spaced in Times New Roman with 12 point font size using the American Psychological Association (APA) referencing style 7<sup>th</sup> Edition
- Where there are multiple authors, at least one author must pre-register to qualify for inclusion of the paper in conference proceedings.
- Selected papers may be considered for publication in International Journals, including the Journal of Computer Science and Its Applications; and the International Journal of Information Security, Privacy and Digital forensics published biannually by Nigeria Computer Society.
- All approved papers for presentation will be in NCS supported PowerPoint (.ppt) presentation format which will be communicated to Authors of approved papers.
- All submitted papers will be peer-reviewed by qualified reviewers. The authors are requested to submit their original and unpublished work in full not later than March 31, 2022
- Authors are advised to employ the IMRaD (Introduction, Methodology, Results and Discussion) format for their papers.
- Authors are also advised to check the plagiarism status of their papers before submission. Note that the maximum acceptable similarity index for the papers in this Conference is 15%.

All submitted papers must be previously unpublished and may not be considered for review or publication somewhere else during the period at which such articles are undergoing NCS review.

All accepted and registered papers will be published in the Proceedings by Springer in a book of the Lecture Notes in Networks and Systems, will be submitted for indexing by SCOPUS, WoS, Google Scholar, SCImago, among others, and will be available in the

## Important Dates

Full Paper Submission Deadline	March 31, 2022
Notification of Acceptance	April 30, 2022
Final Manuscript & Registration	June 15, 2022
Conference Date	August 02-04, 2022

## Enquiries, adverts and Sponsorship:

Taiwo: +234-809-864-7348; Goke: +234 803 347 5299

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[www.conferences.ncs.org.ng](http://www.conferences.ncs.org.ng)

NCS National Secretariat

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Lagos State



For More Enquiries:  
Visit: [www.ncs.org.ng](http://www.ncs.org.ng) or Email: [ncs@ncs.org.ng](mailto:ncs@ncs.org.ng)  
or Call 08097744600, 09038353783



## TECH-INNOVATION DEVELOPMENT PROGRAMME

*(Transforming Ideas Into Innovative tech solutions)*

[www.techinnovation.ncs.org.ng](http://www.techinnovation.ncs.org.ng)



### ABOUT TIDP

The Tech-Innovation Development Programme (TIDP) is to provide support for the development of innovative solutions, tools and technologies for enhancing the national growth. The Tech-Innovation Development Programme (TIDP) shall be funded through a special fund, the Tech-Innovation Development Fund.

### Mission

- ✔ To develop and sustain technological innovations for the acceleration of creative entrepreneurship and rapid economic growth of the nation.

### Vision

- ✔ To transform Nigeria through digital innovations

### Note:

- ✔ Only Team Registration is allowed
- ✔ NCS Membership is Required



### THEMATIC AREAS

- ✔ Cybersecurity/Critical Infrastructure protection
- ✔ Financial Technologies (FinTech)
- ✔ Electoral systems
- ✔ E-government/ Digital Economy
- ✔ Smart cities
- ✔ Intelligent systems and robotics
- ✔ Teleworking & e-Platforms
- ✔ Industry 5.0
- ✔ Digital Games
- ✔ Messaging Platforms

### Participation

- ✔ Do you have any Tech Idea?
- ✔ Can you initiate and develop tech solutions for enhancing National Development?
- ✔ Can you develop world class tech solutions?

Then Register for the 2022 NCS Tech-Innovation Development Programme (TIDP)

**Registration Deadline: February 25, 2022.**

visit [www.techinnovation.ncs.org.ng](http://www.techinnovation.ncs.org.ng) for partnership, participation and enquiries

NCS National Secretariat

ADDRESS: Plot 10 Otunba Jobi Fele Way, Alausa, Ikeja, Lagos State



For More Enquiries:

Visit: [www.ncs.org.ng](http://www.ncs.org.ng) or Email: [ncs@ncs.org.ng](mailto:ncs@ncs.org.ng) or Call 08097744600, 09038353783



# Artificial Intelligence Summit

[www.aisummit.ncs.org.ng](http://www.aisummit.ncs.org.ng)



## About the Summit

Artificial intelligence, which involves the development of digital systems and technologies that mimic human capabilities and capacities in problem-solving and decision-making, has become a prime technology today. Artificial intelligence is currently presenting tremendous opportunities, leading to breakthroughs in all spheres of live. Artificial intelligence (AI) is transforming every segment of global economy.

## Summit Objectives

- ✦ A platform for gathering of Big-Tech, Start-ups, Investors and relevant organisations
- ✦ Opportunity to leverage on global advances in AI for National development
- ✦ Opportunity to Network with International Organisations
- ✦ A platform for increasing AI adoption in public and private organisations
- ✦ Development of talents in AI
- ✦ Showcasing indigenous skills in AI
- ✦ Promote AI education and research
- ✦ Explore opportunities in AI
- ✦ Exchange of innovative ideas in AI technologies

## Call for Experts

- ✦ Technical Resource Persons
- ✦ Workshop Organisers
- ✦ Demonstrators

Interested individuals or groups can contact the Secretariat

## Summit Tracks

- ✦ Technical Sessions
- ✦ AI Workshops
- ✦ Exhibitions and Demonstrations
- ✦ AI Challenge
- ✦ Discussion forum on AI4D

## AI Challenge

- ✦ Present and Demonstrate AI Driven Applications and Technologies
- ✦ For the Youth, Students in Tertiary Institutions, Young Innovators and Startups
- ✦ Selected Teams will be fully sponsored to the summit.
- ✦ Attractive Prizes
- ✦ Register to participate

## Participating Fees

- ✦ Member: N10,000
- ✦ Non-Member: N20,000
- ✦ Student: N5,000
- ✦ Virtual: N15,000
- ✦ **Note:** Registration at the venue attracts additional 50% charges

*"A platform for robust interactions with AI experts across the globe"*

**23rd-25th**  
March 2022

**Nasarawa**  
State, Nigeria.

SPONSOR:



Visit [www.aisummit.ncs.org.ng](http://www.aisummit.ncs.org.ng)  
for Partnership, Participation and Enquiries  
**Contacts:** taiwo@ncs.org.ng | 08098647348  
ljeoma@ncs.org.ng | 08037213920



**COMPUTER PROFESSIONALS**  
(REGISTRATION COUNCIL OF NIGERIA)  
[Established by Act No. 49 of 1993]

p r e s e n t s

# 2022 INFORMATION TECHNOLOGY PROFESSIONALS' ASSEMBLY



**THEME: LEVERAGING IT FOR NATIONAL SECURITY AND ECONOMIC STABILITY**



Wednesday 18th - Thursday 19th  
**May 2022**



NAF Conference Center, Abuja.



### REGISTRATION FEES:

Virtual = N 25,000.00  
Physical = N 65,000.00

**Quick Call: 08033588145, 07035437642**



## 2022 NCS INFORMATION TECHNOLOGY WHIZKIDS COMPETITION

### • Introduction:

The National IT Whizkids Competition is to stimulate the interest and passion of young minds in Information Technology. The competition is organized by Nigeria Computer Society and other partners for Secondary school students. Entrants are expected to participate in the competition which is fully on IT related subject matter.

### • Eligibility:

The Competition is open to all SS 1 and SS 2 students in any secondary school (Private and Public) in Nigeria. The entry application must be filled and submitted online via Nigeria Computer Society website [www.ncs.org.ng](http://www.ncs.org.ng)

### • Quiz Coverage:

Computer Studies Curriculum as approved by the Federal Government of Nigeria and emerging trend in technology.

### • Rules and Important Dates:

- a. To enter, interested applicants must currently be enrolled in any secondary school across the Nation.
- b. Each school should register two (2) candidates to represent the school in the competition with a non-refundable fee of N2,000.
- c. Entry applicants must fill the competition application form on NCS Website
- d. Application Portal Opens- 10th January, 2022 and closes, 10th of April, 2022.
- e. Quiz at State level will be held from May 2nd - 4th, 2022.
- f. Quiz at Zonal level will be held from June 13th - 15, 2022.
- g. Quiz at National level will be held from July 5th, 2022 and the results will be announced that same day.
- h. Peradventures there is a tie in the scores; another quiz will be fixed to determine the winners.
- i. Winners will be officially recognized and awarded during the NCS Annual Conference.

### Enquiries: (National Secretariat)

**Ijeoma:** 08037213920 || **Lilian:** 07066992199 || **e-mail:** [educomm@ncs.org.ng](mailto:educomm@ncs.org.ng)





# *International Conference*

## **SMART, SECURE AND SUSTAINABLE NATION (S3N ' 2022)**




**Tuesday, August 2nd - 4th, 2022**




**Cultural Centre Kuto,  
Abeokuta, Ogun State**

*For sponsorship, participation and enquiries*

 08098647348, 08057323870

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 [www.conferences.ncs.org.ng](http://www.conferences.ncs.org.ng)

*Save the Date*



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