

# IEEE Multi-conference on Natural and Engineering Sciences for Sahel's Sustainable Development (MNE3SD)

24-26 Feb 2022, Ouagadougou, Burkina Faso



## **General Chairs**

Pr Cheikh Ahmadou Bamba GUEYE  
*University of Cheikh Anta Diop, Senegal*

## **Conference Co-chairs**

Dr Bernard ZOUMA  
*University of Joseph KI-ZERBO, Burkina Faso*  
Dr Hamadoun TALL  
*University of Nazi BONI, Burkina Faso*

## **Honorary Co-chairs**

Pr François ZOUGMORE  
*University of Joseph KI-ZERBO, Burkina Faso*  
Pr Théodore M. Y. TAPSOBA  
*University of Nazi BONI, Burkina Faso*  
Pr Oumarou SIE  
*University of Aube Nouvelle, Burkina Faso*  
Pr Michel MISSON  
*University of Clermont Auvergne, France*

## **Technical Programm Co-chairs**

Pr Zackarie KOALAGA  
*University of Joseph KI-ZERBO, Burkina Faso*  
Dr Tiguiane YELEMOU  
*University of Nazi BONI, Burkina Faso*  
Dr Gérard CHALHOUB  
*University of Clermont Auvergne, France*  
Pr Brayima DAKYO  
*University of Le Havre Normandie, France*  
Dr Telesphore TIENDREBEOGO  
*University of Nazi BONI, Burkina Faso*  
Pr Nadir HAKEM  
*University of Quebec Abitibi Temiscamingue, Canada*

## **Patronage & Sponsors Chair**

Mme Lydie KONE/TAPSOBA  
*University of Joseph KI-ZERBO, Burkina Faso*

## **Local Organizing Committee Chair**

Dr Mesmin DANDJINOU  
*University of Nazi BONI, Burkina Faso*

## **Registration Committee Chair**

Dr Ferdinand GUINKO  
*University of Joseph KI-ZERBO, Burkina Faso*

## **Publication Committee Chair**

Dr Ing. Emmanuel W. RAMDE  
*Kwame Nkrumah University of Science and  
Technology, Ghana*

## **Web Committee Chair**

Mr Aboul Aziz KINDO  
*University of Nazi BONI, Burkina Faso*

## **Publicity Committee Co-Chairs**

Dr Pasteur PODA  
*University of Nazi BONI, Burkina Faso*  
Pr Bamba GUEYE  
*University of Cheikh Anta Diop, Senegal*  
Dr Franklin TCHAKOUNTE  
*University of Ngaoundéré, Cameroun*  
Mr Sylvestre Der SIDIBE  
*University of Clermont Auvergne, France*  
Dr Aïda OUANGRAOUA  
*University of Sherbrooke, Canada*  
Dr Walid FAHS  
*Islamic University of Lebanon, Lebanon*

## **Best Paper Committee Chair**

Pr Issa ZERBO  
*University of Joseph KI-ZERBO, Burkina Faso*

## **PhD Students Competition Committee Chair**

Dr Dimitri OUATTARA,  
*University of Joseph KI-ZERBO, Burkina Faso*

Sub-Saharan countries are facing scarcity of water and vegetation resources. Temperatures are very high and drought is gaining ground every year destroying the efforts of these countries to achieve food self-sufficiency. In addition to these natural constraints, few years ago, the insecurity due to terrorism limited the production and investment actions. In this context, reflection efforts are conducted to find innovative technologies or to adapt emerging technologies to this challenging context.

MNE3SD aims to be a framework where researchers and experts will meet to discuss development issues in this region. We want big data, IoT and AI technologies to be investigated to find original solutions able to mitigate the scarcity of the resources in this region of the world.

The MNE3SD conference is an international meeting for the exchange of experience and knowledge among researchers and developers concerned with technologies for sahel's sustainable development. For the second year, the International MNE3SD conference will provide opportunities for researchers to interact, share new results and discuss emerging directions in Big data and IoT for sustainable development and also energy and applied physic for sustainable development.

### **MNE3SD 2022 will take place in Ouagadougou, Burkina Faso, February 24-26 2022**

MNE3SD 2022 is soliciting high quality technical papers addressing research challenges in the areas of big data, and IoT on societal and environmental application, Energy and Applied physic. Papers should present original work validated via analysis, simulation or experimentation. Practical experiences and Testbed trials also are welcome.

MNE3SD 2022 will host two parallel tracks, including but not limited to the following topics:

#### **Track 1 : Big data and IoT for sustainable Development**

- Applications dedicated for sustainable and societal development
- Big data managements techniques for sustainable and societal development
- Privacy issues related to IoT and big data dedicated to sustainable and societal development
- Network protocols for IoT dedicated for sustainable and societal development
- Innovations in the edge/fog/cloud architectures for sustainable and societal development
- Green communications in IoT
- Data mining for sustainable and societal development
- Machine learning, deep learning, reinforcement learning dedicated for sustainable and societal development
- Impact of big data on sustainable and societal development
- Impact of IoT on sustainable and societal development

#### **Track 2 : Energy and Applied Physic for sustainable Development**

- Alternative Sustainable Energy
- Energies vectors and technologies for Smart cities
- Energy harvesting and storage technologies
- Biomass and biofuel power sources
- Integration of renewable energy sources to Smart grid
- Measurement, Sensor technology and Signal processing for data collection
- Applied Physic and Climate change

### **IMPORTANT DATES**

Submission Deadline: **September 30, 2021**

Notification of Acceptance: **December 30, 2021**

Camera ready Date: **January 15, 2022**

Registration date : **January 15, 2022**

Conference start : **February 24, 2022**

Conference end : **February 26, 2022**

## **INSTRUCTIONS FOR PAPER SUBMISSION**

Authors are required to submit fully formatted, original papers (PDF), with graphs, images, and other special areas arranged as intended for the final publication.

Papers should be written in English conforming to the IEEE standard conference format (two-column, 10 pt font, etc., including figures, tables, and references).

The review submissions are limited to six pages, with two additional pages for final papers (additional charges may apply for additional pages).

Conference content will be submitted for inclusion into IEEE Xplore as well as other Abstracting and Indexing (A&I) databases.

Each accepted paper must be presented at the conference by one of the co-authors or a third party, otherwise it will not be indexed and archived through IEEE Xplore.

Only timely submissions through EDAS will be accepted.

For more details, please visit the MNE3SD'2022 official website (<http://iee-bf.org/>).

## **ACCEPTED PAPERS**

All accepted papers will be published in the conference proceedings and presented for inclusion in IEEE Xplore Digital Library.

## **CONTACTS**

tallhamadoun@gmail.com

afoussatous0@gmail.com

tinto.jean@titinto.net

kindoazize@yahoo.fr