## 2023 IEEE Multi-conference on **Natural and Engineering Sciences** for Sahel's Sustainable **Development (MNE3SD 2023)**

**Bobo-Dioulasso**, Burkina Faso 23-25 February 2023



**IEEE Catalog Number: CFP23BF2-POD** 

**ISBN**: 979-8-3503-1181-5

### Copyright © 2023 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP23BF2-POD

 ISBN (Print-On-Demand):
 979-8-3503-1181-5

 ISBN (Online):
 979-8-3503-1180-8

#### **Additional Copies of This Publication Are Available From:**

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com



# 2023 IEEE Multi-conference on Natural and Engineering Sciences for Sahel's Sustainable Development (MNE3SD'23)

### **Authors index**

N°	Title	Track name	Authors
1	Contribution to the construction of an ontology for the phytosanitary surveillance of cotton in Côte d'Ivoire1	Big data and IoT for sustainable development	kouaho n'guessan narcisse Tehia, sadouanouan Malo, Appoh Kouamé, Malanno Kouakou, Kouadio Kra Norbert Bini, Germain Ochou Ochou
2	Lightweight and robust MQTT protocol authentication model suitable for connected portals9	Big data and IoT for sustainable development	Tiguiane Yélémou, Elisée Toé, Doliere Francis Somé
3	Application of Machine Learning in Software Quality: a Mini-review16	Big data and IoT for sustainable development	Ozias Bombiri, Pasteur Poda, Tounwendyam Frédéric Ouédraogo
4	Passive Remote Sensing Studies of a Phantom Insect23	Energy and Applied Physic for sustainable Development	Moussa Sougoti, Sié Zacharie Kam, Sidiki Zongo, Antoine Béré
5	Commercial microwave link networks for rainfall monitoring in Burkina Faso: First results from a dense network in Ouagadougou31	Energy and Applied Physic for sustainable Development	Moumouni Djibo, Christian Chwala, Wend Yam Serge Boris Ouédraogo, Ali Doumounia, Serge Roland Sanou, Moumouni Sawadogo, Harald Kunstmann, François Zougmoré
6	Performance Evaluation of Fault Detection Algorithm Applied on a Photovoltaic Generator38	Energy and Applied Physic for sustainable Development	Ousmane Wendpuiré Compaoré, Ghaleb Hoblos, Zacharie Koalaga