



Editorial paper for special issues on the proceedings of the annual Imhotep seminar on functional empirical and residual processes and their applications.

Tchilabalo Abozou Kpanzou ^(1,3,*) , **Gane Samb Lo** ^(2,3,4)

⁽¹⁾ LaMMASD, University of Kara, Togo

⁽²⁾ LERSTAD, Gaston Berger University, Saint-Louis, Sénégal

⁽³⁾ Imhotep International Mathematical Center (imh-imc), <https://imhotepsciences.org/>

⁽⁴⁾ Affiliated to : LSTA, Pierre and Marie Curie University, Paris VI, France.

AUST - African University of Sciences and Technology, Abuja, Nigeria

Received on January 01, 2023; Accepted on July 1, 2023; Published on September 01, 2024

Copyright © 2023, Afrika Statistika and The Statistics and Probability African Society (SPAS). All rights reserved

Abstract We briefly introduce this special issue of Afrika Statistika on the proceedings of the annual Imhotep seminar on functional empirical and residual processes and their applications.

Résumé. Nous présentons brièvement ce numéro spécial de Afrika Statistika sur les actes du séminaire annuel de Imhotep sur les processus empiriques fonctionnels et processus résiduels et leurs applications.

Key words: seminar; proceedings; mathematical statistics; Imhotep Center; Journal Afrika statistika.

AMS 2010 Mathematics Subject Classification Objects : 62-06

(*) Correspondance Author: Tchilabalo Abozou Kpanzou (t.kpanzou@univkara.net, kpanzout@gmail.com),
Gane Samb Lo: ganesamblo@ganesamblo.net

1. Introduction

1.1. Publication of Proceedings

The journal *Afrika Statistika* has previously published the proceedings of several notable conferences held across the African continent. These include: 1. The International Workshop on Multivariate Risks and Copulas (IWMRC 2010), Biskra, Algeria, April 12-15, 2010 (see [editorial] [Necir et al. \(2010\)](#)); 2. The Conference on Advanced Applied Statistics (CSAA 2014), Constantine, Algeria, 2014 (see [editorial] [Lo et al. \(2014\)](#)); 3. The East African Conference on Mathematical Statistics with Applications (EACMSA 2017), Kigali, Rwanda, June 14-16, 2017 (see [editorial] [Singull et al. \(2014\)](#)).

For each of these conferences, the organizing committees are required to propose a special guest editor and establish a steering committee composed of renowned scholars. This committee undertakes the task of selecting the most deserving papers based on journal standards, managing the peer-review process, and finalizing the list of accepted papers. The ultimate approval rests with the journal's editor-in-chief and the editorial board. We remain committed to continuing this practice for future conferences and encourage organizers to collaborate with us in advancing scientific dissemination across Africa.

In addition to these efforts, we are expanding our scope to include the publication of research outcomes from regional working groups.

1.2. Publication of Regional Working Group Research

We invite regional working groups to embark on ambitious research projects that engage their members in producing significant, innovative findings. Our journal is prepared to assist in disseminating these results, adhering to the rigorous standards applied to conference proceedings.

The Imhotep International Mathematical Center (IMHO-ICM) is the first to initiate such a collaboration, presenting its 2023 research project findings in this issue. These projects focus on statistical applications related to the **fep** and **lrfe** indices and their applications to nonparametric estimation.

The research outcomes are published in Volume 18, Issue 3 of this journal.

We believe that initiatives of this nature have the potential to significantly enhance research activities in Africa. By fostering collaboration on large-scale projects that include Ph.D. theses, we aim to promote research training and, in turn, increase scientific output across the continent. Our goal is to work closely with research

networks to ensure the highest standards of academic quality.

2. Current Proceedings of the IMHO-ICM Working Group Research

This special issue features seven papers, which have been finalized and accepted following a rigorous peer-review process overseen by the special editorial board. The first paper provides a comprehensive introduction to the general methods used. Two subsequent papers delve into specific contributions related to five classes of indices, accompanied by extensive simulation studies and real-world applications. The seventh and final paper synthesizes the findings of the working group.

The editorial process has been overseen by the following guest editorial board:

Editor: Prof. Tchilabalo Abozou Kpanzou.

Associate editors: Prof. Moumouni Diallo, Prof. Harouna Sangare, Prof. Gane Samb Lo, Prof. Soumaila Dembele, Dr. Adja Mbarka Fall, and Dr. Diam Ba.

We hope you find the articles in this issue enlightening and thought-provoking.

3. Conclusion and Call to Action

In conclusion, we present two key initiatives for further consideration. First, we strongly encourage researchers to establish and strengthen international networks based in Africa. Second, these networks should, beyond their regular activities, organize research workshops. We invite them to consider publishing the results of these workshops as special issues in our journals, provided that the research meets the high standards of quality required by our editorial board.

Professor Tchilabalo Abozou Kpanzou, Special Guest Editor

Associate Editor, SPAS Journals

References

- Lo G.S., Rahmani F.L. and Shangodoyin D.K. (2014). Special issue of Afrika Statistika on peer-reviewed selected papers from the Conference on Advanced Applied Statistics (CSAA 2014), Constantine, Algeria, 2014, Afrika Statistika, 10 (1), pp.627-728.
- Necir A., Hocine F., Lo G.S., Rahmani F.L. and Shangodoyin D.K. (2014). Special issue of the international workshop on multivariate risks and copulas, (Biskra, April 12-15, Algeria) Afrika Statistika, 5 (1), pp.195-196.
- Singull M., Rachdi M. and Lo G.S. (2014). Editorial Paper of the Special Issue 13 (1) of Afrika Statistika on Selected papers presented to EACSAM 2017, Afrika Statistika, 13 (1), pp.1495-1497.