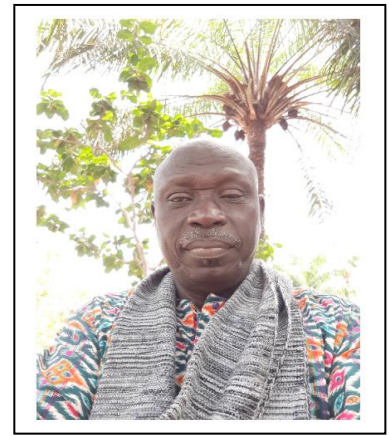


Soussou SAMBOU

My major scientific competence

Hydraulics and hydrological modeling for water resources management

Time series of hydrological and climatic variables analysis for climate change and variability



My academic institution

Cheikh Anta DIOP University. Faculty of Science and Technology. Department of Physics
DAKAR SENEGAL www.ucad.sn

My contact address

Home : Cité HAMO 6, villa S/361 Guédiawaye. DAKAR SENEGAL

Professional: Cheikh Anta DIOP University. Faculty of Science and Technics Departement of Physics PO: DAKAR SENEGAL

Some details about your scientific skills

1. My disciplinary domain

Hydraulics and hydrologic modelling

2. My main themes of research

- Statistical analysis of time series of hydrological and climatic variables (1-5)
- Stochastic modelling and ensemble streamflow modelling for water resources management (6)
- Hydrological modeling using GR4J and GR2M in Senegal and Gambia river (7)
- Hydrological modelling using SWAT for water resources management (1)
- Hydraulic modelling (8-10)

3. The method I implement

- KHRONOSTAT tool for time series analysis (test for randomness, shift and trend test)
- MAKESENS tool for trend and linear trend checking
- GR4J and GR2M hydrological model
- SWAT distributed physically based hydrological model
- HEC RAS 1D-2D hydraulic model
- MUSKINGUM Method for flood forecasting

4. Your academic responsibilities

- Head of the Doctoral Training 'Hydraulic' at the Doctoral School 'Water, Quality and Water Use' of the Cheikh Anta DIOP University. DAKAR/SENEGAL
- Head of the Laboratory 'Hydraulic and Fluids Mechanics'. Faculty of Science and Technics at the Physics Department of the Cheikh Anta DIOP University. DAKAR/SENEGAL
- Hydrology, Hydraulics, Fluid Mechanics and Physics teachings

The links already existing with other ARID members

I plan to work with some ARID members in the area of time series analysis for climate change assessment and impact of climate in water resources

Some bibliographic references if you think it useful

1. M. L. SANE, **S. SAMBOU**, S. DIATTA, D. M. NDIONE, I. LEYE¹, et S. KANE, M. L. BADJI (2019) Trends and shifts in time series of climate data generated by GCM from 2006 to 2090
2. Didier Maria Ndione, **Soussou Sambou**, Moussé Landing Sané, Seydou Kane, Issa Leye, Seni Tamba, Mohamed Talla Cisse (2017). Statistical Analysis for Assessing Randomness, Shift and Trend in Rainfall Time Series under Climate Variability and Change : Case of Senegal. *Journal of Geosciences and Environmental Protection*, 2017, 5, 31-53. <http://www.scirp.org/journal/gep>. ISSN/ inline 2327-4344. ISSN Print 2327-4336. DOI:10.4236/gep.2017.513003 Dec 2017.
3. Vieux Boukhaly Traoré, **Soussou SAMBOU**, Mouhamed Talla CISSE, Séni TAMBA, Sidy FALL, Amadou Tahirou DIAW, Hyacinthe SAMBOU; Malanda Edmond Nimy (2014) *Trends and Shifts in Time Series of Rainfall and Runoff in the Gambia River Watershed*. *International Journal of Environmental Protection and Policy*. Vol 2 No 4, 2014, pp: 138-146. Doi: 10.11648/j.ijepp.20140204.13
4. Moussé Landing SANE, **Soussou SAMBOU**, Didier Maria NDIONE, Issa LEYE, Seidou KANE et Mamadou Lamine BADJI (2017) Analyse et traitement des débits annuels et mensuels sur le fleuve Sénégal en amont du barrage de Manantali : cas des stations de Bafing Makana et Dakka Saidou. *Revue Ivoirienne des Sciences et Technologies*, 30(2017) 102-120. ISSN 1813-3290, <http://www.revist.ci>
5. Mohamed Talla CISSE, **Soussou SAMBOU**, Yaya Diémé, Clément DIATTA et Mamadou BOP (2014) Analyse des écoulements dans le bassin du fleuve Sénégal de 1960 à 2008. *Revue des Sciences de l'Eau* 27(2), 167-187. Doi.10.7202/1025566ar
6. Ndione D.M., **Sambou S.**, Sane M.L., Kane S., Leye I., Tamba S., Diedhiou R., Cissé M.T. and Ngom I. (2018) Modelling ensemble streamflow : Application to the Senegal River upper Manantali Dam. *African Journal of Environmental Science and Technology* Vol 12(12) pp469-479. December 2018. DOI: 10. 5897/AJEST2018.2567. Article Number : 854CDDF59399. ISSN1996-0786
7. Vieux Boukhaly Traoré, **Soussou SAMBOU**, Séni TAMBA, Sidy FALL, Amadou Tahirou DIAW, Mohamed Talla CISSE. (2014). Calibrating the Rainfall-Runoff Model GR4J and GR2M on the Koulountou river Basin, a tributary of the Gambia river. *American Journal of Environmental Protection*. Vol 3, No. 1, pp36-44. Doi: 10.11648/j.ajep.20140301.15
8. Moussé Landing SANE, **Soussou SAMBOU**, Issa LEYE, Didier Maria NDIONE, Seidou KANE, Séni TAMBA, Malang DIATTA (2018) A New Approach of the Estimation of the Parameters of the Linear Muskingum Model for River Flow Simulation: Application to Bafing, Senegal River Tributary between Dakka Saidou and Bafing Makana Gauges Stations. *International Journal of Engineering Research and Application*. ISSN: 2218-9622. Vol. 8, Issue 8 (Part – II). Aug 2018. pp 20-27. 10.9790/9622-0808022027. DOI: 10-9790/9622-0808022027

9. Vieux Boukhaly TRAORE, **Soussou SAMBOU**, Hyacinthe SAMBOU, Amadou Tahir DIAW (2015) Steady flow simulation in Anambe river basin using HEC RAS. International Journal of Development Research. Vol 5, Issue 07, pp.4968-4979, July 2015. Available On line at <http://www.journalijdr.com>. ISSN:2230-9926

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<https://doi.org/10.4236/cwee.2017.63020>. <http://www.scirp.org/journal/cwee>. ISSN Online:2168-1570 ISSN Print: 2168-1562

Your web page, your ORCID number (or SCOPUS or ResearcherID), your LinkedIn page, etc.