

Ousmane THIARE, PhD.

FULL PROFESSOR IN COMPUTER SCIENCE

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LANGUAGES

French : advanced
English : fluency

CURRENT POSITIONS

- 2018- Date **Vice-Chancellor (Rector), President of University Assembly** UNIVERSITY GASTON BERGER OF SAINT-LOUIS SENEGAL
- 2015- Date **Full Professor in Computer Science (GAMES/LAFPT 2015)** UFR SAT - UNIVERSITY GASTON BERGER OF SAINT-LOUIS SENEGAL
- 2018- Date **Scientific and Technical Director** EUROPEAN RESEARCH PROJECT (ID: 780229 - H2020-ICT-2017-1)
WAZIHUB: Accelerating Open IoT and Big Data Innovation in Africa
- 2016- Date **Expert evaluator ANAQ-Sup** MINISTRY OF HIGHER EDUCATION RESEARCH AND INNOVATION SENEGAL
- 2013- Date **Researcher at UMMISCO** Mathematical and Computer Modelling Unit of COmplex Systems
- 2015- Date **International expert in institutional assessment of training courses and / or research programs** GAMES (AFRICAN AND MALAGASY COUNCIL FOR HIGHER EDUCATION)
- 2013- Date **Associate Professor in Computer science** AFRICAN UNIVERSITY OF SCIENCE AND TECHNOLOGY
AUST Abuja Campus Nigeria
- 2009- Date **Member of ACSAL-Science Board of Directors** UNIVERSITY OF LUXEMBOURG

PAST POSITIONS

- 2017-2020 **Director of ACE-MITIC** UNIVERSITY GASTON BERGER OF SAINT-LOUIS SENEGAL
- 2010-2015 **Associate Professor in Computer Science (GAMES/LAFMC Cote A)** UFR SAT - UNIVERSITY GASTON BERGER OF SAINT-LOUIS SENEGAL
- 2014-2019 **Member of the Scientific and Pedagogical Council of the Doctoral School Sciences and Technologies** UNIVERSITY GASTON BERGER OF SAINT-LOUIS SENEGAL
- 2016-2019 **Scientific and Technical Director** EUROPEAN RESEARCH PROJECT (ID: 687607 - H2020-ICT-2015)
WAZIUP: Open Innovation Platform for IoT-Big Data in Sub-Sahara Africa
- 2013-2018 **Coordinator of the Faculty of Basic and Applied sciences at USSEIN** UNIVERSITY OF SINE-SALOUM EL HADJI IBRAHIM NIASS OF KAOLACK (USSEIN) SENEGAL
- 2013-2016 **Director of the IT Computing Center** UNIVERSITY GASTON BERGER OF SAINT-LOUIS SENEGAL
- 2012-2014 **Coordinator of the MSc. in Computer Science** UFR SAT - DEPT. OF COMPUTER SCIENCE - UNIVERSITY GASTON BERGER OF SAINT-LOUIS SENEGAL

- 2007-2009 **Head of the Computer Science department** UFR SAT - DEPT. OF COMPUTER SCIENCE - UNIVERSITY GASTON BERGER OF SAINT-LOUIS SENEGAL
- 2008-2010 **Assistant Professor in Computer Science (CAMES/LAFMA Cote A)** UFR SAT - DEPT. OF COMPUTER SCIENCE - UNIVERSITY GASTON BERGER OF SAINT-LOUIS SENEGAL
- 2005-2008 **Assistant Lecture (Tenure) in Computer Science** UFR SAT - DEPT. OF COMPUTER SCIENCE - UNIVERSITY GASTON BERGER OF SAINT-LOUIS SENEGAL
- 2002-2005 **Assistant Lecturer in Computer Science** UFR SAT - DEPT. OF COMPUTER SCIENCE - UNIVERSITY GASTON BERGER OF SAINT-LOUIS SENEGAL

EDUCATION

- 2003-2007 **Ph.D. in Computer Science** DEPARTMENT OF COMPUTER SCIENCE
University of Cergy-Pontoise - Paris-France
- 2001-2002 **Post-Graduate (DEA) in Computer Science** POLYTECH' TOURS
University François Rabelais of Tours, France
- 1999-2000 **Post-Graduate (DEA) in Applied Mathematics** UFR MAI
University Gaston Berger of Saint-Louis Senegal
- 1998-1999 **Graduate (AEA) in Applied Mathematics** UFR MAI
University Gaston Berger of Saint-Louis Senegal
- 1997-1998 **M.Sc. (Maîtrise) in Applied Mathematics** UFR MAI
University Gaston Berger of Saint-Louis Senegal

PUBLICATIONS

INTERNATIONAL JOURNAL PUBLICATIONS

1. **F.Y. Dtissibe, A.A.A. Ari, C. Titouna, O. Thiare, A.M. Gueroui**, "Flood forecasting based on an artificial neural network scheme", *Natural Hazards, Springer Nature B.V.* 2020, 27 pages, August 2020.
2. **A.A.A. Ari, A.C. Djedouboum, A.M. Gueroui, O. Thiare, A. Mohamadou and Z. Aliouat**, "A Three-tier architecture of large-scale wireless sensor networks for big data collection", *Applied Sciences (MDPI)*, 10(15), 5382, 21 pages, August 2020.
3. **O.K. Ngangmo, A.A.A. Ari, A.M. Gueroui, A. Mohamadou, O. Thiare and K. Kolyang**, "Differential Privacy Guarantees in the Cloud of Things: A Multilevel Data Publication Scheme", *submitted to International Journal of Communication Systems (IJCS)*, John Wiley & Sons Ltd, June 2020.
4. **A.C. Djedouboum, A.A.A. Ari, A.M. Gueroui, A. Mohamadou, O. Thiare and Z. Aliouat**, "A Framework of Modeling Large-Scale Wireless Sensor Networks for Big Data collection", *Special Issue Symmetry and Complexity 2020 (MDPI)*, 12(7), 1113, 23 pages, June 2020.
5. **E. Effah and O. Thiare**, "Realistic Cluster-based Energy Efficient and Fault-Tolerant (RCEEFT) Routing Protocol for Wireless Sensor Networks (WSNs)", *In: Arai K., Kapoor S., Bhatia R. (eds) Advances in Information and Communication. Advances in Intelligent Systems and Computing*, vol 1129. Springer, Cham, pp. 320-337, February 2020.
6. **J.E.Z. GbadouBissa, A.A.A. Ari, C. Titouna, A.M. Gueroui and O. Thiare**, "HGC: HyperGraph based Clustering Scheme for Power aware Wireless Sensor Networks", *Future Generation Computer Systems (ELSEVIER)*, vol. 105 (2020), pp. 175-183, December 2019.

7. A.A.A. Ari, A.M. Gueroui, C. Titouna, **O. Thiare** and Z. Aliouat, "Resource Allocation Scheme for 5G C-RAN: a Swarm Intelligence based approach", *Computer Networks (ELSEVIER)*, vol. 165 (2019) 106957, 20 pages, December 2019.
8. A.A.A. Ari, O.K. Ngangmo, C. Titouna, **O. Thiare**, K. Kolyang, A. Mohamadou and A.M. Gueroui, "Enabling Privacy and Security in Cloud of Things: architecture, applications, security & privacy challenges", *Applied Computing and Informatics (ELSEVIER)*, 12 pages, November 2019.
9. E. Effah and **O. Thiare**, "Estimation of Optimal number of Clusters : A New Approach to Minimizing Intra-Cluster Communication Cost in WSNs", *International Journal of Innovative Technology and Exploring Engineering (IJITEE), Scopus Journal, ISSN: 2278-3075, Volume-8 Issue-7S2, pp. 521-524, May 2019.*
10. M. Diop, C. Pham, and **O. Thiare**, "A 2-hop LoRa Approach based on smart and Transparent Relay-Device", *Springer Nature Switzerland AG 2019. Book Title "e-Infrastructure and e-Services for Developing Countries" LNICST 275, pp. 24-34, February 2019.*
11. E. Effah and **O. Thiare**, "Survey: Faults, Fault Detection and Fault Tolerance Techniques in Wireless Sensor Networks", *International Journal of Computer Science and Information Security (IJCSIS)*, vol. 16, no. 10, pp. 1-14, October 2018.
12. O. Dieng, C. Pham and **O. Thiare**, "Comparing and Adapting Propagation Models for LoRa Networks", *16th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (IEEE/WIMOB'20)*, pp. 1-7, October 2020.
13. E. Effah, **O. Thiare** and A. Wyglinski, "Energy-Efficient Multihop Routing Framework for Cluster-based Agricultural Internet of Things (CA-IoT) Networks", in *The 2020 IEEE 92nd Vehicular Technology Conference (IEEE VTC2020-Fall)*, in *IEEE Proceedings*, PP. 1-5, May 2021.
14. E. Effah, **O. Thiare** and A. Wyglinski, "Multi-Objective Optimization Modeling of Clustering-Based Agricultural Internet of Things", in *The 2020 IEEE 92nd Vehicular Technology Conference (IEEE VTC2020-Fall)*, in *IEEE Proceedings*, pp. 1-5, May 2021.
15. O. Dieng, C. Pham and **O. Thiare**, "Outdoor Localization and Distance Estimation Based on Dynamic RSSI Measurements in LoRa Networks: Application to Cattle Rustling Prevention", *15th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (IEEE/WIMOB'19)*, in *IEEE Proceedings*, DOI: 10.1109/WIMOB.2019.8923542, pp. 1-6, December 2019.
16. C. Dupont, A. Wussah, M. Sadouanouan, **O. Thiare**, F. Niass, C. Pham, S. Dupont, F. Le Gall and P. Cousin, "Low-cost IoT solutions for fish farmers in Africa", *IEEE Proceedings of IST Africa 2018*, ISSN: 2576-8581, pp. 1-8, May 2018.
17. C. Pham, F. Ferrero, M. Diop, L. Lizzi, O. Dieng and **O. Thiare**, "Low-cost Antenna Technology for LPWAN IoT in Rural Applications", *IEEE 7th International Workshop on Advances in Sensors and Interfaces (IEEE/IWASI 2017)*, pp. 121-126, DOI: 10.1109/IWASI.2017.7974231, June 2017.
18. P. Cousin, C. Dupont, S. Fatnassi, C. Pham, **O. Thiare**, A. Wussah and S. Koffi, "IoT, an affordable technology to empower African addressing needs in Africa", *IST Africa 2017*, published in *IEEE Proceedings*, DOI: 10.23919/ISTAFRICA.2017.8102347, pp. 1-8, November 2017.
19. O. Dieng, B. Diop, **O. Thiare** and C. Pham, "A Study on IoT Solutions for Preventing Cattle Rustling in African Context", *2nd ACM International Conference on Internet of Things, Data and Cloud computing (ACM/ICC'17)*, Published in *ACM Proceedings Article n°160*, pp. 1-11, DOI : 10.1145/3018896.3036396, March 2017.
20. M. Traore, L. Escalade, **O. Thiare** and B. Pottier, "Life dynamics cellular modelling and simulation", *Proceedings of the 6th IASTED International Conference on Modelling, Simulation and Identification (MSI 2016)*, pp. 134-140, August 2016.