ATTA
Amanvon Ferdinand

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single without children

Professional Experience

since 10/2024 **Head of Master's Program of Cybersecurity and IoT** , *Université Virtuelle de Côte d'Ivoire.*

since 2024 **Member of the SCHC Working Group** , *IETF.*
- Contribution to technical discussions, drafts, and proposals to enhance the SCHC.

since 07/2022 **Assistant Professor**, *Université Virtuelle de Côte d'Ivoire.*

2020 - 2021 **Doctoral stage**, *Institut de Recherche en Informatique et Systèmes Aléatoires (IRISA) de Rennes, France*, From November 2020 to January 2021),
Topic : A set of pairs of light-trees reconfiguration in Spare Wavelength Converter Network.

2019 - 2020 **Doctoral stage**, *Institut de Recherche en Informatique et Systèmes Aléatoires (IRISA) de Rennes, France*, (from July 2019 to January 2020),
Topic : A pair of light-trees reconfiguration in Spare Wavelength Converter Network.

2017-2019 **E-coach**, *Université Virtuelle de Côte d'Ivoire.*

Education

2017-2021 **PhD in Computer Science**, *Ecole Doctorale Polytechnique(EDP)*, Institut National Polytechnique Félix Houphouët Boigny(INP-HB), Côte d'Ivoire.

2014-2016 **Master's Degree in computer science engineering**, *Université Nangui Abrogoua*, Côte d'Ivoire.

2010-2014 **Bachelor's degree in computer science**, *Université Nangui Abrogoua*, Côte d'Ivoire.

2008-2009 **High school baccalaureate**, *Lycée Moderne de Bouaflé*, Côte d'Ivoire.

Research Interests

My research interests include:
- Routing and spectrum allocations, failure protection, multicast in Optical Networks
- Optical Networks reconfiguration
- Localisation in Wireless Sensor Networks
- Artificial Intelligence applied to Computer Networks(e.g, IoT, Optical Networks)
- Artificial Intelligence applied to cloud/fog computing
- IoT protocol design

Committee Service

2024 **Technical Program Committee Member**, 2^{nd} *International Conference on Artificial Immune and Intelligent systems* , Shah Alam, Malaysia.

2023 **Technical Program Committee Member**, 1^{st} *International Conference on Artificial Immune and Intelligent systems*, Shah Alam, Malaysia.

2023 **Program Committee Member**, *International Conference on IoT and Related Technologies*, Abidjan, Côte d'Ivoire.

Publications

Journal papers

1. A. A. J. KANDA, A. F. ATTA, Z. F. O. TREY, M. BABRI, A. D. KORA, 'Anchor-Based Method for Inter-Domain Mobility Management in Software-Defined Networking', *Algorithms*, vol. 14, no.12, 2024.
2. A. A. J. KANDA, A. F. ATTA, M. BABRI, A. D. KORA, 'Mobility Management in a Cross-Domain SDN Architecture Leveraging the IPV6 Mobile Proxy', *International Journal of Advanced Research*, vol. 11, no.2, 2023.
3. A. C. Aka AKA, A. F. ATTA, G. A. KEUPONDJO SATCHOU, S. OUMTANAGA, 'An Efficient Anchor-Free Localization Algorithm for all Cluster Topologies in a Wireless Sensor Network', *International Journal of Computers Communications & Control*, vol. 18, no.3, 2023.
4. A. F. ATTA, B. COUSIN, J. C. ADÉPO, S. OUMTANAGA, 'Light-tree Reconfiguration in Sparse Wavelength Converter Network', *International Journal of Communication Networks and Distributed Systems*, vol. 28, no.1, pp. 1-26, 2022.
5. A. F. ATTA, G. A. KEUPONDJO SATCHOU, J. C. ADÉPO, S. OUMTANAGA, 'Minimize Penalty Fees During Reconfiguration of a Set of Light-Tree Pairs in an All-Optical WDM Network', *Communications in Computer and Information Science*, Volume 1417, Springer, octobre 2021.
6. A. F. ATTA, J. C. ADÉPO, B. COUSIN, S. OUMTANAGA, 'Sub-tree-based Approach for Reconfiguration of a Light-tree Pair without Flow Interruption in Sparse Wavelength Converter Network', *Information*, vol. 12, no. 5, pp. 211-230, 2021.
7. A. F. ATTA, J. C. ADÉPO, B. COUSIN, S. OUMTANAGA, 'Minimize Flow Interruptions during Reconfiguration of a set of Light-trees in All-optical WDM Network', *IJCSNS*, vol.20, No.7, Jul.2020, pp 77-85. `http://paper.ijcsns.org/07_book/202007/20200711.pdf`

Conference Papers

1. A. F. ATTA, G. A. KEUPONDJO SATCHOU, J. C. ADÉPO, S. OUMTANAGA, 'Minimize Penalty Fees During Reconfiguration of a Set of Light-Tree Pairs in an All-Optical WDM Network', *6th International Conference on Information, Communication & Computing Technologies*, New Delhi, May.2021.
2. G. A. KEUPONDJO SATCHOU, N. G. ANOH, A. F. ATTA and S. OUMTANAGA, 'Optimization of proactive routing with latency minimization in SDN networks', *EAI International Conference on Technology, R&D, Education and Economy for Africa*, Abidjan, Mar.2018, `https://eudl.eu/doi/10.4108/eai.21-3-2018.2277821`
3. G. K. PANDRY, A. F. ATTA, G. A. KEUPONDJO SATCHOU, and N. OUATTARA, 'Algorithme de gestion du trafic multimédia basé sur les SDNs dans les NRENs', *WACREN Conference*, Abidjan, Mar.2017, `https://indico.wacren.net/event/46/contributions/347/contribution.pdf`

Pre-print papers

1. A. F. ATTA, B. COUSIN, J. C. ADÉPO, and S. OUMTANAGA, *Sub-tree Pair Selection for Reconfiguration of a Light-tree Pair*, Nov.2019, `https://hal.archives-ouvertes.fr/hal-02374828`

Reviewing Papers

To date, I have reviewed (see my orcid profile via the link in the next page) over twenty research papers (from various scientific journals) such as:

1. B. Li, J. Wang, X. Zhu, J. You, J. You, L. Hu 'An Adaptive Hierarchical Hybrid Multicast Based on Information-Centric Networking', *Electronics*, vol 10, no. 23, 2021.
2. A. T. Azar, M. S. Elgendy, M. A. Salam, K. M. Fouad, 'Rough sets hybridization with mayfly optimization technique for feature selection and dimensionality reduction', *Applied Sciences*.
3. J. Katongole, O. S. Eyobu, P. Kasyoka, T. J. Oyana, 'A Link Fabrication Attack Mitigation Approach (LiFAMA) for Software Defined Networks ', *Electronics*, vol 11, no.10, 2022.

Teaching

Since 2022 **Lecturer**, *list of courses: Algorithm Design and Analysis; Network Programming with Python; System Programming; Cloud Computing; Cloud Computing & IoT*, at Université Virtuelle de Côte d'Ivoire.

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: https://scholar.google.com/citations?user=_-C8nggAAAAJ&hl=fr&oi=ao
: https://www.researchgate.net/profile/Ferdinand-Atta