



KALGHOUM ANOUAR

Laboratoire CRISTAL, Pôle Ramsis - ENSI

Short Biography

Anwer Kalghoum, Ph.D., is a researcher and educator specializing in computer science. He earned his doctorate from the National School of Computer Science (ENSI) in Tunisia. His research focuses on Software-Defined Networking (SDN), cybersecurity, information retrieval, Named Data Networking (NDN), artificial intelligence for network security, and cloud computing. Dr. Kalghoum has pioneered innovative architectures that enhance the NDN framework through SDN integration, driving advancements in network technologies. In addition to his research, he is deeply committed to education, inspiring and mentoring students to become future leaders in cybersecurity and networking while making significant contributions to both academia and industry.

Professional experiences

Maitre assistant

March 2023 - Here (3 years, 2 month)

Institut Supérieur d'Informatique du Kef, Le Kef

Diplomas

Doctorat en informatique

2020

Kind : Doctorat

École nationale des sciences de l'informatique (ENSI), La Manouba

Doctorat en informatique

Teachings

Sécurité et Cryptographie

March 2023 - Here (3 years, 2 month)

Institut Supérieur d'Informatique du Kef

Teaching stream(s) : MP-ASRI

Sécurité et Cryptographie

Research activities

Publications

- **"FPGA Implementation of Robust and Secure Transmission Cryptosystem for Satellite Images"**
*Rim Amdouni, Ramzi Guesmi, Mohamed Ali Hajjaji, **Anwer Kalghoum**, Haitham Alsaif, Attia Boudjemline, Badr M. Alshammari, Tawfik Guesmi*
IEEE Access 12: 115561-115587 (2024)
- **"A Novel Strong S-Box Design Using Quantum Crossover and Chaotic Boolean Functions for Symmetric Cryptosystems"**
*Haitham Alsaif, Ramzi Guesmi, **Anwer Kalghoum**, Badr M. Alshammari, Tawfik Guesmi*
Symmetry 15(4): 833 (2023)
- **"FFED: a novel strategy based on fast entropy to detect attacks against trust computing in cloud"**
*Houda Guesmi, **Anwer Kalghoum**, Cherif Ghazel, Leïla Azouz Saïdane*
Cluster Computing 24(3): 1945-1954 (2021)
- **"Leveraging Software-Defined Networking Approach for Future Information-Centric Networking Enhancement"**
*Tawfik Guesmi, **Anwer Kalghoum**, Badr M. Alshammari, Haitham Alsaif, Ahmed Alzamil*
Symmetry 13(3): 441 (2021)
- **"FCR-NS: a novel caching and forwarding strategy for Named Data Networking based on Software Defined Networking"**
***Anwer Kalghoum**, Leïla Azouz Saïdane*
Cluster Computing 22(3): 981-994 (2019)
- **"Towards a novel cache replacement strategy for Named Data Networking based on Software Defined Networking"**
***Anwer Kalghoum**, Sonia Mettali Gammar, Leïla Azouz Saïdane*
Computers & Electrical Engineering 66: 98-113 (2018)
- **"Towards a Novel Forwarding Strategy for Named Data Networking Based on SDN and Bloom Filter"**
***Anwer Kalghoum**, Sonia Mettali Gammar, Leïla Azouz Saïdane*
Proceedings of the 14th IEEE/ACS International Conference on Computer Systems and Applications (AICCSA), 2017, pp. 1198-1204
- **"Towards New Information Centric Networking Strategy Based on Software Defined Networking"**
***Anwer Kalghoum**, Sonia Mettali Gammar*
Proceedings of the 14th IEEE/ACS International Conference on Computer Systems and Applications (AICCSA), 2017, pp. 1-6
- **"Performance evaluation of interest traffic generation and forwarding strategy impact in ICN"**
***Anwer Kalghoum**, Sonia Mettali Gammar, Leïla Azouz Saïdane*
Proceedings of the 14th IEEE/ACS International Conference on Computer Systems and Applications (AICCSA), 2016, pp. 1-5

Specialties

Sécurité et Cryptographie

Sécurité et Cryptographie

