

Curriculum Vitae

Ali A Hammadi

College of Technological Studies

Shuwaikh, Jamal Abdunasser Street, Kuwait

aa.hammadi@paaet.edu.kw

Education

- Bachelor of Science in the field of Electrical Engineering from the University of North Carolina at Charlotte, USA, 1997-2001.
- Master of Science in Electrical Engineering with concentration on optical communication and integrated photonics from the University of North Carolina at Charlotte, USA, 2007-2009.
- PhD on Future Passive Optical Data Center Networks from the University of Leeds, UK, 2012-2016.

Academic experience

Assistant Professor at the Public Authority of applied Education and Training (PAAET)

Non-academic experience

Telecommunication Engineer, Kuwait National Petroleum Company (KNPC), 2001-2007

Certifications

- Cisco Certified Network Associate CCNA (2005)
- Network+ (2004)
- TIA Convergence Technology Professional CTP (2006)

Current membership

- Member of Kuwait Society of Engineers
- Member of Kuwait Information Technology Society

Honors and awards

Click or tap here to enter text/ none if Not Applicable.

Service activities

Click or tap here to enter text/ none if Not Applicable.

Publications and presentations

1. A. Hammadi and L. Mhamdi, "Review: A survey on architectures and energy efficiency in Data Centre Networks," *Computer Communication*. vol. 40, pp. 1-21, 2014".
2. J. M. H. Elmirghani, A. Hammadi, and El-Gorashi, T.E., "Passive optical based Data Centre Networks", Patent filed on 26 November 2014 and published on 2nd of June 2016.
3. A. Hammadi, T. E. H. El-Gorashi, and J.M.H. Elmirghani, "High Performance AWGR PONs in Data Centre Networks," *IEEE International Conference on Transparent Optical Networks*, Hungary, 2015.
4. A. Hammadi, T. E. H. El-Gorashi, and J.M.H. Elmirghani, "Energy-Efficient Software-Defined AWGR-Based PON Data Centre Network" *IEEE International Conference on Transparent Optical Network*, Italy, 2016.
5. A. Hammadi, Musa Mohammad, T. E. H. El-Gorashi, and J.M.H. Elmirghani, "Resource Provisioning for AWGR-Based PON Cloud Data Centre Network" *IEEE 21st European Conference on Network and Optical Communications (NOC)*, Portugal, 2016.
6. A. Hammadi, T. E. H. El-Gorashi, Musa Mohammad and J.M.H. Elmirghani, "Server-Centric PON Data Centre Network" *IEEE International Conference on Transparent Optical Network*, Italy, 2016.
7. A. Hammadi, (2017) *Mathematical Optimization Modelling for Fast-Switched and Delay Minimized Scheduling for Intra Cell Communication in an AWGR-Based PON Data Center*. *Int. J. Communications, Network and System Sciences*, 10, 13-29
8. R Alani, A Hammadi, TEH El-Gorashi, JMH Elmirghani, "PON Data Centre Design with AWGR and Server Based Routing" *IEEE International Conference on Transparent Optical Network*, Spain, 2017.

9. M. S. Bahbahani, E. Alsusa and A. Hammadi, "A Directional TDMA Protocol for High Throughput URLLC in mmWave Vehicular Networks," in *IEEE Transactions on Vehicular Technology*, 2022
10. Z. H. Nasralla, T. E. H. Elgorashi, A. Hammadi, M. O. I. Musa and J. M. H. Elmirghani, "Blackout Resilient Optical Core Network," in *IEEE/ACM Transactions on Networking*, vol. 30, no. 4, pp. 1795-1806, Aug. 2022

Professional development activities

Click or tap here to enter text/ none if Not Applicable..