

FACULTY VITAE

1. Name: Farah Kandah

2. Education

Degree	Discipline	Institution	Year
B.S.	Computer Science	Hashemite University	2002
M.S.	Computer Science	University of Jordan	2005
Ph.D.	Computer Science	North Dakota State University	2012

3. Academic experience

Institution	Rank	Dates Held	FT/PT
Hashemite University	Lecturer	2005 - 2008	FT
North Dakota State University	Teaching assistant	2011 - 2012	PT
University of Tennessee at Chattanooga	Assistant Professor	2012 – Present	FT

4. Non-academic experience

Organization	Title	Duties	Dates	FT/PT

5. Certifications or professional registrations

N/A

6. Membership in professional organization

- IEEE Member (2010 – Present)
- IEEE Communication Society (ComSoc) member (2010 – Present)
- IEEE Computer Society (2010 – Present)
- ACM Member (2014 – Present)

7. Honors and awards

UC Foundation Professorship, University of Tennessee at Chattanooga, 2014.

North Dakota State University, 2010 grant to attend and participate in the Consumer Communications and Networking Conference (CCNC 2010) in Las Vegas, NV (USA).
Tuition waiver and research/teaching assistantship to pursue Ph.D. of Computer Science at North Dakota State University (2008).

8. Service activities

Chairing:

- Network and Information Security Symposium (Co-Chair), International Conference on Communications and Networking in China (ChinaCom 2012)

Guest-Editor:

- IEEE Multimedia Communications Technical Committee (MMTC), “Special Issue: Multimedia Communication in Future Wireless Networks”, Nov 2013

TPC Member:

- International Conference on Computing in Mechanical Engineering (ICCME) 2015
- IEEE International Conference on Communications (ICC) 2015
- IEEE Wireless Communications and Networking Conference (WCNC) 2013-2015
- IEEE / ACM International Conference on Connected Vehicles and Expo (ICCVE) 2012-2015
- IEEE Global Communication Conference (Globecom) 2011-2013
- IEEE International Conference on Computing, Networking and Communications (ICNC) 2012
- IEEE INFOCOM Machine-to-Machine Communications and Networking (M2MCN) 2011

Journal Reviewer:

- IEEE Sensor Journal
- WILEY's Security and Communication Networks (SCN) Journal
- International Journal of Information Processing and Management (IJIPM)
- Journal of Computer Systems, Networks and Communications (JCSNC)

Conference Reviewer:

- IEEE International Conference on Communications (ICC) 2011
- IEEE Symposium on Computer Communications (ISCC) 2011
- Work in Progress Workshop (WIP) of PerCom 2011
- IEEE Global Communication Conference (Globecom) 2010
- International workshop on Quality of Service (IWQoS) 2010
- IEEE INFOCOM 2010 (Student Workshop)

9. Publications and presentation from past five years

[J-6] Farah Kandah, Yashaswi Singh, and Weiyi Zhang, “Mitigating Colluding Injected Attack using Monitoring Verification in Mobile Ad-hoc Networks”, Security and Communication Networks (SCN), Wiley, vol 6, No 4 (2013), 539-547, April 2013.

- [J-5]** Farah Kandah, Yashaswi Singh, and Weiyi Zhang, “Mitigating Eavesdropping Attack using Secure Key Management Scheme in Wireless Mesh Networks”, *Journal of Communications (JCN, ISSN 1796-2021)*, vol 7, no 8 (2012), 596-605, Aug 2012.
- [J-4]** Farah Kandah, Yashaswi Singh, Weiyi Zhang, and Tie Wang, “A Misleading Active Routing Attack in Mobile Ad-hoc Networks”, *International Journal of Security and Networks (IJSN)*, vol.7, no.1 (2012), pp.17 - 29.
- [J-3]** Weiyi Zhang, Farah Kandah, Xiaojiang Du, and Chonggang Wang (2011), “Self-protecting Networking using Dynamic p-cycle Consideration with Link Capacity Constraint”, *Security and Communication Networks*, Wiley, issn 1939-0122, doi: 10.1002/sec.364.
- [J-2]** Farah Kandah, Weiyi Zhang, Chonggang Wang, and Juan Li (2011), “Diverse Path Routing with Interference and Reusability Consideration in Wireless Mesh Networks”, *Mobile Networks and Applications*, pp. 1-10, vol. , Issue 1383-469X, doi:10.1007/s11036-011-0301-y.
- [J-1]** Weiyi Zhang, Farah Kandah, Chonggang Wang, and Hongxiang Li (2011), “Dynamic Light Trail Routing in WDM Optical Networks”, *Photonic Network Communications*, pp. 78 – 89, vol. 21, Issue: 1, doi: 10.1007/s11107-010-0282-y.
- [C-9]** Farah Kandah, and Jesse Whitehead, “Energy-aware Multipath Provisioning in Wireless Mesh Networks”, *Consumer Communications and Networking Conference (CCNC 2015)* - Accepted for publication.
- [C-8]** Farah Kandah, and Adrain Powell, “Ultimate Control and Security Over Data Localization in the Cloud”, *International Conference on Computing, Networking and Communications (ICNC 2015)* - Accepted for publication.
- [C-7]** Farah Kandah, Yashaswi Singh, Weiyi Zhang and Yulu Ma, “Mitigating Misleading Routing Attack using Path Signature in Mobile Ad-Hoc Networks”, *Global Communications Conference (GLOBECOM)*, 2013 IEEE, vol., no., pp.617-622, 9-13 Dec. 2013. doi: 10.1109/GLOCOM.2013.6831140.
- [C-6]** Farah Kandah, Yashaswi Singh, Weiyi Zhang, and Tie Wang (2011), “MIRA: Misleading Routing Attack in Mobile Ad-hoc Networks”, *Global Telecommunications Conference (GLOBECOM 2011)*, IEEE, pp.1-5, doi: 10.1109/GLOCOM.2011.6134283.
- [C-5]** Farah Kandah, Weiyi Zhang, Xiaojiang Du, and Yashaswi Singh (2011), “A Secure Key Management Scheme in Wireless Mesh Networks”, *Communications (ICC)*, 2011 IEEE International Conference on, pp.1-5, 5-9 June 2011, doi: 10.1109/icc.2011.5962807.
- [C-4]** Farah Kandah, Yashaswi Singh, and Chonggang Wang (2011), “Colluding Injected Attack in Mobile Ad-hoc Networks”, *Computer Communications Workshops (INFOCOM WKSHPS)*, 2011 IEEE Conference on, vol., no., pp.235-240, 10-15 April 2011, doi: 10.1109/INFCOMW.2011.5928815.
- [C-3]** Yashaswi Singh, Farah Kandah, and Weiyi Zhang (2011), “A Secure Cost-effective Multi-Cloud Storage in Cloud Computing”, *Computer Communications Workshops (INFOCOM WKSHPS)*, 2011 IEEE Conference on, pp.619-624, 10-15 April 2011, doi: 10.1109/INFCOMW.2011.5928887.
- [C-2]** Farah Kandah, Weiyi Zhang, Yashaswi Singh, and Juan Li (2010), “Interference-aware Robust Wireless Mesh Network Design”, *GLOBECOM 2010*, 2010 IEEE Global Telecommunications Conference, vol., no., pp.1-5, 6-10 Dec. 2010, doi: 10.1109/GLOCOM.2010.5683887.
- [C-1]** Weiyi Zhang, Farah Kandah, Jian Tang, and Kendall Nygard (2010), “Interference-Aware Robust Topology Design in Multi-Channel Wireless Mesh Networks”, *Consumer*

Communications and Networking Conference (CCNC), 2010 7th IEEE, pp.1-5, doi: 10.1109/CCNC.2010.5421854.

10. Recent professional development activities

“Energy-aware Multipath Provisioning in Wireless Mesh Networks”, Consumer Communications and Networking Conference (CCNC 2015) - Accepted for publication.

“Ultimate Control and Security Over Data Localization in the Cloud”, International Conference on Computing, Networking and Communications (ICNC 2015) - Accepted for publication.

Served as a TPC member in IEEE ICC 2015, WCNC 2015, ACM/IEEE ICCVE 2015.

Served as a reviewer for IEEE Sensors Journal (2013) and Security and Communication Networks.