Name: Mingkui Wei Rank: Assistant Professor Department of Computer Science College of Science and Engineering Technology

Degrees Earned: Ph. D

Peer-Review Publications and Artistic Performances/Exhibitions

Articles

- Mingkui Wei, Zhuo Lu, Yufei Tang and Xiang Lu, "How Can Cyber-Physical Interdependence Affect the Mitigation of Cascading Power Failure?", in *Proc. of IEEE International Conference on Computer Communications (INFOCOM)*, Honolulu, HI, May 2018.
- Zhuo Lu, **Mingkui Wei** and Xiang Lu, "How They Interact? Understanding Cyber and Physical Interactions against Fault Propagation in Smart Grid", in *Proc. of IEEE International Conference on Computer Communications (INFOCOM)*, Atlanta, GA, May 2017.
- Mingkui Wei, Zhuo Lu and Wenye Wang, "Dominoes with Communications: On Characterizing the Progress of Cascading Failures in Smart Grid", in *Proc. of IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May. 2016.
- Mingkui Wei and Wenye Wang, "Safety can be Dangerous: Secure Communications Impair Smart Grid Stability Under Emergencies," in *Proc. of IEEE Globe Communications Conference* (*GLOBECOM*), San Diego, CA, Dec. 2015.
- Mingkui Wei, Xi Gong and Wenye Wang, "Claim What You Need: A Text-Mining Approach on Android Permission Request Authorization", in *Proc. of IEEE Globe Communications Conference (GLOBECOM)*, San Diego, CA, Dec. 2015.
- Zhuo Lu, Cliff Wang and **Mingkui Wei**, "On Detection and Concealment of Critical Roles in Tactical Wireless Networks," in *Proc. of IEEE Military Communications Conference (MILCOM)*, Tampa, FL, Oct. 2015, pp. 909 914.
- Mingkui Wei and Wenye Wang, "Combat the Disaster: Communication in Smart Grid Alleviate Cascading Failures," in *Proc. of IEEE High-capacity Optical Networks and Emerging/Enabling Technologies (HONET)*, Charlotte, NC, Dec. 2014, pp. 133 137.
- Mingkui Wei and Wenye Wang, "Greenbench: A Benchmark for Observing Power Grid Vulnerability Under Data-Centric Threats," in *Proc. of IEEE International Conference on Computer Communications (INFOCOM)*, Toronto, Canada, May. 2014, pp. 2625 2633.
- Mingkui Wei and Wenye Wang, "Toward Distributed Intelligent: A Case Study of Peer to Peer Communication in Smart Grid," in *Proc. of IEEE Globe Communications Conference (GLOBECOM)*, Atlanta, GA, Dec. 2013, pp. 2210 2216.
- Mingkui Wei, Zhuo Lu and Wenye Wang, "On Characterizing Information Dissemination During City-Wide Cascading Failures in Smart Grid," *IEEE Systems Journal*, 2018.
- Mingkui Wei and Wenye Wang, "Data-Centric Threats and Their Impacts to Real-Time Communications in Smart Grid," *Computer Networks* 104 (2016): 174-188.
- Mingkui Wei, "An Improved Min-Sum Decoding Algorithm for LDPC Codes," in *Telecom Market*, vol. 10, pp. 155 159, 2007.

Book Chapters

 Zhuo Lu, Cliff Wang and Mingkui Wei, "A Proactive and Deceptive Perspective for Role Detection and Concealment in Wireless Networks," *Cyber Deception*. Springer International Publishing, 2016. 99 – 116.

Patent

• Xiqi Gao, Wen Zhong and **Mingkui Wei**, "A Quantized Decoding Algorithm for Low Density Parity Check Codes," Chinese Patent ZL 2007 1 0133273.3, May 25, 2011.

Peer-Reviewed Presentations/Posters

- "How They Interact? Understanding Cyber and Physical Interactions against Fault Propagation in Smart Grid", *IEEE International Conference on Computer Communications (INFOCOM)*, Atlanta, GA, May 2017.
- "Safety can be Dangerous: Secure Communication Impair Smart Grid Stability Under Emergencies," *IEEE GLOBECOM*, San Diego, CA, Dec. 2015.
- "Claim What You Need: A Text-Mining Approach on Android Permission Request Authorization," *IEEE GLOBECOM*, San Diego, CA, Dec. 2015.
- "On Detection and Concealment of Critical Roles in Tactical Wireless Networks," *IEEE MILCOM*, Tampa, FL, Oct. 2015.
- "Greenbench: A Benchmark for Observing Power Grid Vulnerability Under Data-Centric Threats," *IEEE INFOCOM*, Toronto, Canada, May. 2014.
- "Toward Distributed Intelligent: A Case Study of Peer to Peer Communication in Smart Grid," *IEEE GLOBECOM*, Atlanta, GA, Dec. 2013.

Professional Services

- Member of Technical Program Committee (TPC), IEEE INFOCOM 2017, 2018.
- Reviewer, IEEE INFOCOM.
- Reviewer, IEEE GLOBECOM.
- Reviewer, IEEE MILCOM.
- Reviewer, IEEE SmartGridCom.
- Reviewer, IEEE ICNC.
- Reviewer, IEEE PIMRC.
- Reviewer, IEEE ISI.
- Reviewer, IJDSN.
- Reviewer, KSII TIIS.

Honors and Awards

- Winner of prestigious National Science Foundation (NSF) student travel grant (STG) to attend 2015 IEEE GlobeCom.
- Winner of student travel grant to attend 2015 IEEE MilCom.