



Vahid Heydari

Assistant Professor
Computer Science

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Education:

BS (Computer Engineering), University of Science & Culture

MS (Computer Engineering), Payame Noor University

MS (Cybersecurity), University of Alabama at Huntsville

PhD (Computer Engineering), University of Alabama at Huntsville

Research Expertise:

Moving Target Defenses | Networks Security | Networks Analysis and Simulation

Dr. Heydari's research interests lie within Wireless Ad Hoc Networks Security and Moving Target Defenses (MTDs) to prevent remote cyber-attacks. He has worked on detecting different attacks against Mobile Ad Hoc Networks (MANETs) and reliability of data collection in Wireless Sensor Networks (WSNs). He also proposed a queuing analysis for delay calculation in Wireless Ad Hoc Networks.

Honors and Awards:

2016 Best Student Poster Award (ICWS)

2016 Best Poster Award (CISSE)

2016-2017 Four NSF Funded Student Travel Awards

2016-2017 Real World Cryptography and IEEE Student Travel Awards

Member of:

ACM, IEEE, IEEE Communications Society, IEEE Computer Society, IEEE Cybersecurity Community, IEEE Technical Committee on Security and Privacy, IEEE Young Professionals

Recent Publications:

Heydari V (2017) IP Hopping by Mobile IPv6. Handbook of Cyber-Development, Cyber-Democracy and Cyber-Defense. Springer International Publishing.

Heydari V, Yoo SM (2017) Timeout period analysis to detect blackhole attack in multihop wireless ad hoc networks. International Journal of Wireless Information Networks.

Heydari V, Kim S, Yoo SM (2017) Scalable Anti-Censorship Framework using Moving Target Defense for Web Servers. IEEE Transactions on Information Forensics and Security. 12:1113-1124.

Heydari V, Yoo SM (2016) E2EACK: An End-to-End Acknowledgment-based Scheme against Collusion Black Hole and Slander Attacks in MANETs. Wireless Networks. 22:2259-2273.

Heydari V, Yoo SM, Kim S (2016) Secure VPN using Mobile IPv6 based Moving Target Defense. In Proc. IEEE Global Communications Conference. Washington, DC.