Shuai Hao

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Assistant Professor Department of Computer Science Old Dominion University $www.cs.odu.edu/{\sim}haos$ 4700 Elkhorn Ave Room 3111, Norfolk, VA 23529 Research **Networking and Security**

Kesearcn	Applying measurement, empirical study, and data-driven approach to (1) study practice security phenomena on the Internet and Networked Systems and (2) facilitate the protocol an system design that makes the Internet more robust and secure		
	 Internet-Wide Vulnerability and Security Internet Infrastructure (DNS, CDN, etc) Internet Routing and Topology 	Network Attack and DefenseWeb Security and PrivacyCybercrime	
Education	Ph.D. in Computer Science · 2011 - 2017 College of William and Mary		
	M.S. in Computer Science · 2007 - 2010		
	Beijing University of Posts and Telecommunications Beijing		
	B.Eng. in Computer Science · 2003 - 2007 North China Electric Power University		
	North China Electric Fower University	Baoding, nebel, Clima	
Experience & Appointments	Assistant Professor, Old Dominion University		
	Postdoctoral Researcher,		
	Center for Applied Internet Data Analysis (CA University of California, San Diego	La Jolla, CA	
	Ph.D. Candidate, Research Assistant, Teaching A College of William and Mary	Williamsburg, VA	
	 Visiting Ph.D. Student, University of Delawar Department of Electrical & Computer Engineer Advisor: Dr. Haining Wang 		
Visiting & Internships	Research Intern, NEC Laboratories America		
	Research Intern, HP Labs China	Beijing, China May – Aug. 2012	
	Visiting Research Scholar, Tsinghua University Department of Computer Science · Supervisor: D		

Publications

- Yubao Zhang, Jidong Xiao, **Shuai Hao**, Haining Wang, Sencun Zhu, and Sushil Jajodia. **Understanding the Manipulation on Recommender Systems through Web Injection**, in *IEEE Transactions on Information Forensics & Security (TIFS)*, 2019.
- Lin Jin, Shuai Hao, Haining Wang, and Chase Cotton. Unveil the Hidden Presence: Characterizing the Backend Interface of Content Delivery Networks, in the 27th IEEE International Conference on Network Protocols (ICNP), Chicago, IL, October 2019. (Acceptance Rate: 38/210 = 18.1%)
- Rui Bian, **Shuai Hao**, Haining Wang, Amogh Dhamdhere, Alberto Dainotti, and Chase Cotton. **Towards Passive Analysis of Anycast in Global Routing: Unintended Impact of Remote Peering**, in *ACM SIGCOMM Computer Communication Review (CCR)*, Volume 49 Issue 3, July 2019.
- Shuai Hao, Yubao Zhang, Haining Wang, and Angelos Stavrou. End-Users Get Maneuvered: Empirical Analysis of Redirection Hijacking in Content Delivery Networks, in the 27th USENIX Security Symposium (USENIX Security), Baltimore, MD, August 2018. (Acceptance Rate: 100/524 = 19.1%)
- Lin Jin, Shuai Hao, Haining Wang, and Chase Cotton. Your Remnant Tells Secret: Residual Resolution in DDoS Protection Services, in the 48th IEEE/IFIP International Conference on Dependable Systems and Networks (DSN), Luxembourg City, Luxembourg, June 2018. (Acceptance Rate: 62/232 = 26.7%)
- Haitao Xu*, **Shuai Hao***, Alparslan Sari, and Haining Wang (*co-first authors). **On the Privacy Implications of Email Tracking**, in *IEEE International Conference on Computer Communications (INFOCOM)*, Honolulu, HI, April 2018. (Acceptance Rate: 309/1606 = 19.2%)
- Kun Xie, Xiaohong Huang, **Shuai Hao**, and Maode Ma. **Distributed Power Saving for Large-Scale Software-Defined Data Center Networks**, in *Journal of IEEE Access*, January 2018.
- Shuai Hao and Haining Wang. Exploring Domain Name Based Features on the Effectiveness of DNS Caching, in ACM SIGCOMM Computer Communication Review (CCR), Volume 47 Issue 1, January 2017.
- Daiping Liu, Shuai Hao, and Haining Wang. All Your DNS Records Point to Us: Understanding the Security Threats of Dangling DNS Records, in the 23rd ACM Conference on Computer and Communications Security (CCS), Vienna, Austria, October 2016. (Acceptance Rate: 137/831 = 16.5%)
- Kun Xie, Xiaohong Huang, **Shuai Hao**, Maode Ma, Pei Zhang, and Dingyuan Hu. **E**³**MC: Improving Energy Efficiency via Elastic Multi-Controller SDN in Data Center Networks**, in *Journal of IEEE Access*, October 2016.
- Shuai Hao, Haining Wang, Angelos Stavrou, and Evgenia Smirni. On the DNS Deployment of Modern Web Services, in the 23rd IEEE International Conference on Network Protocols (ICNP), San Francisco, CA, November 2015. (Acceptance Rate: 38/190 = 20.0%; Best Paper Nominee)
- Shuai Hao, Xiaohong Huang, and Yan Ma. A Simple Packet Authentication Mechanism Based on Stateless Core Approach, in Workshop on Management of Emerging Networks and Services, IEEE Globecom, Miami, FL, 2010.

Shuai Hao, Xiaohong Huang, and Yan Ma. Application QoS for Video: Benchmarking, Control Strategies and Business Systems, in the 5th IEEE International Conference on Wireless Communications, Networking and Mobile Computing, Beijing, China, 2009.

Professional	Program Committee
Activities	IEEE/IFIP DSN '20

Conference/Journal Reviewer

ACM IMC '18 (Shadow PC)

IEEE INFOCOM '14 '15 '16 '17 '18 '19

IEEE/IFIP DSN '14 '15 '16 '17 '19

ACM CCS '17 '18 IEEE CNS '15 '18 ACM IWSPA '17 IEEE HASE '17 SECRYPT '16 SecureComm '15 '16

IEEE Security & Privacy (Oakland) '15

IEEE/ACM Transactions on Networking (ToN)

ACM Transactions on Privacy and Security (Formerly TISSEC)

IEEE Transactions on Information Forensics and Security (TIFS)

Journal of Computer Communications (ComCom) Journal of Communications and Networks (JCN) Journal of Security and Communication Networks International Journal of Distributed Sensor Networks

IEEE Security & Privacy Magazine

IEEE Transactions on Mobile Computing (TMC)

Talks & Presentations

Cybersecurity Seminar Talk, Arizona State University	n. 2019
Invited Talk, CAIDA, UC San Diego	p. 2018
Security Group Luncheon, CSE Department, UC San DiegoAp	or. 2018
Seminar Series Talk, ECE Department, University of Delaware	p. 2016

Teaching Department of Computer Science · Old Dominion University

Spring 2020: CS795/895 - Topics in Advanced Computer Networking Fall 2019: CS795/895 - Topics in Internet Infrastructure and Security