

## Dr. Yingfei Dong, Associate Professor

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### Education

**Ph.D.** Computer and Information Science, University of Minnesota, 07/2003

**Doctor** Engineering, Tsinghua University, 03/1996

**M.S.** Computer Software, Harbin Institute of Technology, 03/1992

**B.S.** Computer Software, Harbin Institute of Technology, 07/1989

### Academic and Industrial Experience

Dept of Electrical Engineering, University of Hawaii, Associate Professor, 08/2008 – present, full time

Dept of Electrical Engineering, University of Hawaii, Assistant Professor, 08/2003 - 07/2008, full time

Dept. of Computer Science, University of Minnesota, Research Assistant, 09/2000 - 07/2003, full time

Honeywell Laboratories, Minneapolis, MN, Research Intern, 05/2001 - 08/2001, full time

Dept. of Computer Science, University of Minnesota, Teaching Assistant, 09/1999 - 05/2000, 50%

Network Research, Fujitsu Laboratories of America, CA, Research Intern, 05/1999 - 08/1999, full time

Network Research, Fujitsu Laboratories of America, CA, Research Intern, 05/1998 - 08/1998, full time

Dept. of Computer Science, University of Minnesota, Research Assistant, 09/1997 - 05/1999, 50%

Dept. of Computer Science, Univ. of Texas at San Antonio, Research Asso., 11/1995 – 07/1997, full time

Dept. of Computer Science, Tsinghua University, Lecturer, 02/1993 – 11/1995, Lecturer, 50%

Dept. of Computer Science, Tsinghua University, Lecturer, 02/1993 – 11/1995, Teaching Assistant, 50%

### Current membership in professional organizations: *IEEE*

#### Service activities (within and outside of the institution)

- NSF Panelist, Computer Information Science and Engineering (CISE) 2005-2010, 2012, 2014
- *Service on University, College, or Department committees*
  - Departmental Undergraduate Curriculum Committee, Chair, 2012-14, member 2009-2011
  - Departmental Recruiting Committee, 2007, 2008, 2012, 2013
  - Departmental Teaching Policy committee, 2011
  - University Research Council, 2011-2013
  - Departmental Personal Committee, 2011, 2012, 2013
  - Departmental Budget Committee, 2005-2011
  - Departmental Graduate Committee, 2004-2011
  - Departmental Web site committee, Chair, 2006-2007
  - Departmental Space committee, Chair, 2010, member 2007-2013
  - Departmental Representative at the Information Technology Alliance, 2003 –2009
- Journal Editorial Service
  - Associate Editor, ZTE Communications, 2012-present
  - Associate Editor, International Journal of Security and Networks (IJSN), 2011 to present
  - Guest Editor, Special issue of Journal of Combinatorial Optimization, 2009
  - Guest Editor, Journal of Theoretical Computer Science, 2009
- Referee for IEEE/ACM Journals: *IEEE Transactions on Secure and Dependable Computing*, *ACM/IEEE Transactions on Networking*, *ACM Transactions on Internet Technology*, *ACM Computer Communication Review (CCR)*, *IEEE Transactions on Computers*, *IEEE Transactions on Parallel and Distributed Systems*, *IEEE Communications Magazine*, *IEEE Transactions on Multimedia*, *Elsevier Computer Networks Journal*, *IEEE Transactions on Broadcasting*, *IEEE Transaction on Knowledge and Data Engineering*, *ACM Multimedia Journal*, *Elsevier Multimedia Tools and Applications Journal*, *Wiley Computer Applications in Engineering Education*, *International Journal of Ad Hoc and Ubiquitous Computing*, *Journal of the Frontiers of Computer Science*, Springer's Journal of Network and Systems Management
- *Conferences, workshops, short courses you organized or helped to organize.*
  - Poster Chair, IEEE CNS 2014; Publicity Co-chair, 28<sup>th</sup> Annual Computer Security Applications Conference (ACSAC), 2012; Symposium Co-chair, IEEE Globecom Security Symposium, 2010; Program Co-Chair, 20<sup>th</sup> International Symposium on Algorithms and Computation, 2009; Co-chair, International Wireless Communications and Mobile Computing, August, 2007; Local Chair, IEEE 16th Inter. Conf. on Computer Communication and Networks, 2007; Session Chairs: INFOCOM, ACSAC, ICCCN, Globecom, ICC, MSN, etc.
  - Technical Program Committee (TPC) Member for IEEE/ACM/IFIP/ICST conferences: IEEE CNS2011-2012; *IFIP International Conference on Networking*, 2006, 2013; *International Conference*

*on Digital Forensics and Investigation (ICDFI), 2012-2014; Annual Computer Security Applications Conference (ACSAC), 2011, 2012; IEEE Conference on Computer Communications (INFOCOM), 2009-2013; IEEE Global Communications Conference (Globecom), 2006-2013; IEEE International Conference on Communications (ICC) 2007-2014; IEEE Inter. Conf. on Computer Communication and Networks, 2005-2008, 2011-2013; IEEE The 25th International Conference on Distributed Computing Systems, 2005, 2011; IEEE IWQoS, 2006, 2009; ICST Securecom 2009; ICST TrustCom 2009; IEEE Consumer Communications and Networking Conference (CCNC), 2008, 2009, etc.*

### **Selected Publications (last five years)**

1. Y Bao, C Yi, Y Xue, and Y Dong. A new rumor propagation model and control strategy on social networks. In International conference on Advances in Social Network Analysis and Mining (ASONAM), 2013.
2. Y Bao, C Yi, Y Xue, and Y Dong. Precise modeling rumor propagation and control strategy on social networks. Springer Lecture Notes on Social Networks (LNSN) Series, to appear.
3. T Baumeister, Y Dong, Z Duan, and G Tian. Routing table insertion (rti) attacks on freenet. In ASE/IEEE International Conference on Cyber Security, 2012.
4. Todd Baumeister and Yingfei Dong. Towards secure identity management for the smart grid. Wiley Security and Communication Networks, 2014.
5. Todd Baumeister, Yingfei Dong, Zhenhai Duan, and Guanyu Tian. Using randomized routing to counter routing table insertion attack on freenet. In IEEE Globecom, Communication and Information System Security Symposium (GC13 CISS), Atlanta, GA, 2013.
6. Todd Baumeister, Yingfei Dong, Zhenhai Duan, and Guanyu Tian. Look-ahead hint: Reduce routing information sharing to mitigate routing based attacks. In submission, 2014.
7. E Biagioni, Y Dong, W. Peterson, and K Sugihara. Practical distributor voter-verifiable secret ballot system. In ACM Symposium On Applied Computing (SAC), 2009.
8. Wang D, L Zhang, Z Yuan, Y Xue, and Y Dong. Characterizing application behaviors for classifying p2p traffic. In International Conference on Computing, Networking and Communications, 2014.
9. Z Duan and Y Dong. An accurate and efficient email traceback framework for e-crime investigation. In ARO Workshop on Digital Forensics, Arlington, VA, USA, Sept. 2009.
10. Z Duan, P Peng, F Sanchez, Y Dong, M Stephenson, and J Barker. Detecting spam zombies by monitoring outgoing messages. IEEE Transactions on Dependable and Secure Computing. Vol.9, No.2, pages 198-210, March/April 2012.
11. F Sanchez, Z Duan, and Y Dong. Blocking spam by separating end-user machines from legitimate mail server machines. Wiley Security and Communication Networks, DOI: 10.1002/sec.587, June 2012.
12. G Tian, Z Duan, T Baumeister, and Y Dong. Thwarting traceback attack on freenet. In IEEE Globecom, Communication and Information System Security Symposium (CISS), Atlanta, GA, 2013.
13. G Tian, Z Duan, T Baumeister, and Y Dong. A traceback attack on freenet. In IEEE INFOCOM, Turin, Italy, April, pages 1797-1805, 2013.
14. G Tian, Z Duan, T Baumeister, and Y Dong. Reroute on loop in anonymous peer-to-peer content sharing networks. In IEEE Conference on Communications and Network Security (CNS), Oct. 2014.
15. C Wang, C Liu, B Liu, and Y Dong. Div: Dynamic integrity validation framework for detecting compromises on virtual machine based cloud services in real time. China Communications, to appear.
16. D Wang, L He, Y Xue, and Y Dong. Exploiting artificial immune systems to detect unknown dos attack in real-time. In IEEE International Conference on Cloud Computing and Intelligence Systems (CCIS), 2012.
17. C Yi, Y Bao, J Jiang, Y Xue, and Y Dong. Cascading failures on social networks under various attack strategies. IEEE ICNC, 2014.
18. Z Yuan, X Chen, Y Xue, and Y Dong. Cloud-entry: Elusive tor entry points in cloud. In USENIX Annual Technical Conference, 2014.
19. Z Yuan, Y Xue, and Y Dong. Harvesting unique characteristics in packet sequences for effective application classification. In IEEE Conference on Communications and Network Security (CNS), Washington, D.C., 2013.
20. J Zhang, Y Dong, and D. H-C Du. Utilizing path dynamics for delay assurance in synchronized multihop scheduling. In IEEE ICCCN, Aug. 2014.