1. Name

Yong Wang Associate Professor Beacom College of Computer and Cyber Sciences Dakota State University

2. Education

2007Ph.D. (CS)University of Nebraska, Lincoln, NE.Dissertation:Key Management Protocols in Hybrid Wireless Sensor Networks.Advisor:Prof. Byrav Ramamurthy.1998M.Eng. (CS)1995B.Sc. (CS)Wuhan University, Wuhan, P.R. China.

3. Academic Experience

2017 - Present	Associate Professor	Dakota State University, Madison, SD.
2012 - 2017	Assistant Professor	Dakota State University, Madison, SD.

4. Non-academic Experience

2007 - 2011	Senior software engr./Mange	r Calient Networks, Santa Barbara, CA.
2002 - 2003	Senior software engineer	UTStarcom R&D Center, Shenzhen, China.
1998 - 2000	Senior software engineer	ZTE, Shenzhen, China.

5. Certifications or Professional Registrations

- Collaborative Institutional Training Initiative (CITI) Program for IRB members
- Core Impact CICP Certified Professional

6. Current Memberships in Professional Organizations

- Member, Institute of Electrical and Electronics Engineers (IEEE)
- Member, IEEE Communications Society (IEEE ComSoc)

7. Honors and Awards

Awards

- 2015 Merrill Hunter Award for Excellence in Research at Dakota State University.
- 2007 Outstanding graduate teaching assistant awarded by the Department of Computer Science and Engineering, University of Nebraska-Lincoln.
- 2003-2007 Full scholarships for doctoral study at University of Nebraska-Lincoln.
- 1997 Outstanding graduate student scholarship awarded by the Wuhan University.
- 1994 Outstanding undergraduate research student awarded by the Student Affairs, Wuhan University.

1992 Outstanding undergraduate student scholarship awarded by the Wuhan University.

Funding Records

- a. "Practical Secure Smartphones: Techniques, Tools, and Applications", DSU Doctoral Summer Seed Grant, \$10,000, June 2012 August 2013. **Yong Wang (PI)**.
- b. "Acquisition of Equipment to Establish MobiSec Lab for Research and Education at DSU", South Dakota Performance Improvement Fund, \$79,950.00, August 2012 May 2013; Yong Wang (PI).
- c. "MRI: Acquisition of an Online Banking System for Information Assurance Research", NSF CNS1123220, \$400,000, September 2013 – August 2014. Yong Wang (PI), Dianxiang Xu (Former PI), Joshua Pauli, Manghui Tu.
- d. "RET Site in Cyber Security", NSF CNS 1200648, \$500,000.00, May 1, 2012 April 30, 2015. **Yong Wang (PI)**, Dianxiang Xu (Former PI), and Patrick Engebretson.
- "MRI: Acquisition of Equipment to Establish Mobile Testing Infrastructure for Bring Your Own Device Research and Education", NSF CNS 1337529, \$168,076.00, September 1, 2013 – August 31, 2016. Yong Wang (PI).
- f. "Privacy Impact Assessment in Social Networks", DSU FRI Grant, \$2000.00, September 2013 May 2014; **Yong Wang (PI)**.
- g. "Establish Data Center Technology Lab at DSU for Cloud and Big Data Security", South Dakota Performance Improvement Fund, \$90,000.00, Aug 2014 May 2015; Yong Wang (PI).
- h. "Understanding the Relationship between MySanfordChart and the Utilization of Emergency Department and urgent Care Centers", Sanford Data Collaboration, \$1,000, September 2016 August 2017; **Yong Wang (PI)**.
- i. "CyberTraining: CIP: North Central Region Cyber Training Center for Cybersecurity at Dakota State University", NSF OAC 1730105, \$479,658, September 1, 2017 August 31, 2020. Wayne Pauli (PI), **Yong Wang (Co-PI)**.
- j. "REU Site in IoT Security", NSF, \$359,488, March 1, 2019 February 28, 2022. Yong Wang (PI), Ashley Podhradsky (Co-PI). (*pending*).

8. Service Activities

- University service
 - o DSU Institutional Review Board, Fall 2018-Present
 - DSU Faculty Award Selection Committee, Spring 2016-Present
 - DSU Graduate Council, Fall 2013-Present
 - o DSU Research Committee, Fall 2013-Present
 - o DSU MSIA Graduate Student Application Committee, Fall 2012-Present
 - o DSU MSACS Graduate Student Application Committee, Fall 2013-Present
 - SDBOR System Intellectual property Council, 2015-Present
- External service
 - Co-chair, Cybersecurity and big data working group, Middle West Big Data Hub
 - TPC members and reviewers for many international conferences and journals in computer science
 - o Dissertation examiners for Murdoch University, Australia

9. Selected Publications

- B1. Sandeep Kumar Lakkaraju, Dianxiang Xu, and **Yong Wang**, A Contextual Model to Integrate Healthcare Workflows and Access Control Policies (010917-120853), *Book chapter in Handbook of Research on Emerging Perspectives on Healthcare Information Systems and Informatics*, IGI Global, 2018.
- B2. **Yong Wang** and Jason Nikolai, Key Management in CPS, *Book chapter in Security and Privacy in Cyber-Physical Systems: Foundations and Applications (Hongbing, Song, Glenn A. Fink, Gilad L. Rosner, Sabina Jeschke)*, published by Wiley Co., November 2017.
- J3. Sulabh Bhattarai and **Yong Wang**, End-to-End Trust and Security for Internet of Things Applications, *IEEE Computer*, April 2018.
- J4. Sandeep Lakkaraju, Dianxiang Xu, **Yong Wang**, Analysis of Healthcare Workflows in Accordance with Access Control Policies, the *International Journal of Healthcare Information Systems and Informatics (IJHISI)*, 11(1)1-20, 2016.
- C5. **Yong Wang**, CS4A: A New Approach for Cybersecurity Workforce Development, *New Approaches to Cybersecurity Education (NACE) Workshop*, New Orleans, Louisiana, June 9-10, 2018.
- C6. Keith Jones and **Yong Wang**, An Optimized Running Window Entropy Algorithm, *the National Cyber Summit*, Huntsville, AL, June 5-7, 2018.
- C7. Jeremias Eppler and **Yong Wang**, Towards Improving the Security of Mobile Systems using Virtualization and Isolation, *Fourth Conference on Mobile and Secure Services*, Miami, Florida, February 24-25, 2018.
- C8. Tareq Allan and **Yong Wang**, The Demand for Technical Safeguards in the Healthcare Sector: a Historical Perspective Enlightens Deliberations about the Future, *2017 Americas Conference on Information Systems*, Boston, MA, 2017.
- C9. Ali Ahmed, Tareq Nasralah, **Yong Wang**, etc., Impact of E-Visits on Emergency Departments and Urgent Care Centers, 2017 Americas Conference on Information Systems, Boston, MA, 2017.
- C10. Jason Nikolai and **Yong Wang**, A System for Detecting Malicious Insider Data Theft in IaaS Cloud Environments, *IEEE Globecom*, Washington, DC, USA, December 4-8, 2016.
- C11. **Yong Wang** and Jun Liu, An Attribute-based Statistic Model for Privacy Impact Assessment, *the 2016 International Conference on Collaboration Technologies and Systems (CTS 2016)*, Orlando, Florida, USA, Oct 31-Nov 4, 2016.
- C12. Jason Nikolai and **Yong Wang**, A Streaming Intrusion Monitoring and Classification System for IaaS Cloud, *IEEE Cloud*, San Francisco, CA, USA, June 27-July 2, 2016.
- C13. **Yong Wang**, Christen Hahn, and Kruttika Sutrave, Mobile Payment Security, Threats, and Challenges, *Second Conference on Mobile and Secure Services*, Gainesville, Florida, February 26-27, 2016.
- C14. Raj Kumar Nepali and **Yong Wang**, You Look Suspicious!!: Leveraging visible attributes to classify malicious short URLs on Twitter, *Hawaii International Conference on System Sciences (HICSS-49)*, Kauai, Hawaii, January 5-8, 2016.
- C15. Yazan Alshboul, **Yong Wang**, and Raj Kumar Nepali, Big Data Life Cycle: Threats and Security Model, *2015 Americas Conference on Information Systems*, Puerto Rico, 2015.

- C16. Raj Kumar Nepali, **Yong Wang**, and Yazan Alshboul, Detecting Malicious Short URLs on Twitter, 2015 Americas Conference on Information Systems, Puerto Rico, 2015.
- C17. **Yong Wang**, and Raj Nepali, Privacy Impact Assessment for Online Social Networks, *the 2015 International Conference on Collaboration Technologies and Systems (CTS 2015)*, Atlanta, Georgia, USA, June 1-5, 2015.
- C18. **Yong Wang**, and Raj Nepali, Privacy Threat Modeling Framework for Online Social Networks, *the 2015 International Conference on Collaboration Technologies and Systems (CTS 2015)*, Atlanta, Georgia, USA, June 1-5, 2015.
- C19. **Yong Wang** and Yazan Alshboul, Mobile Security Testing Approaches and Challenges, *First Conference on Mobile and Secure Services*, Gainesville, Florida, February 19-21, 2015.
- C20. Yong Wang, An Automated Virtual Security Testing Platform for Android Mobile Apps, *First Conference on Mobile and Secure Services*, Gainesville, Florida, February 19-21, 2015.
- C21. Santiago Gimenez Ocano, Byrav Ramamurthy and Yong Wang, Remote Mobile Screen (RMS): An Approach for Secure BYOD Environments, 2015 International Conference on Computing, Networking and Communication (ICNC), Anaheim, California, USA, February 16-19, 2015.
- C22. Raj Nepali and **Yong Wang**. SocBridge: Bridging the gap between Online Social Networks, *Twentieth Americas Conference on Information Systems*, Savannah, Georgia, 2014.
- C23. Jason Nikolai, **Yong Wang**, and Raj Nepali, A Framework for Examining the Human Side of Anti-Forensic Measures, *Twentieth Americas Conference on Information Systems*, Savannah, Georgia, 2014.
- C24. Yong Wang, Karthik Vangury, and Jason Nikolai, MobileGuardian: A Security Policy Enforcement Framework for Mobile Devices, *the 2014 International Conference on Collaboration Technologies and Systems (CTS 2014)*, Minneapolis, Minnesota, USA, May 19-23, 2014.
- C25. Nicholas Penning, Michael Hoffman, Jason Nikolai, and Yong Wang, Mobile Malware Security Challenges and Cloud-Based Detection, *the 2014 International Conference on Collaboration Technologies and Systems (CTS 2014)*, Minneapolis, Minnesota, USA, May 19-23, 2014.
- C26. Jason Nikola and **Yong Wang**, Hypervisor-based Cloud Intrusion Detection System, 2014 International Conference on Computing, Networking and Communication (ICNC), CNC Workshop, Honolulu, Hawaii, USA, Feb 3-6, 2014.
- C27. **Yong Wang**, Raj K Nepali, and Jason Nikolai, Social Network Privacy Measurement and Simulation, 2014 International Conference on Computing, Networking and Communication (ICNC), CNC Workshop, Honolulu, Hawaii, USA, Feb 3-6, 2014.
- C28. Yong Wang, Jinpeng Wei, and Karthik Vangury, Bring Your Own Device Security Issues and Challenges, *The 11th Annual IEEE Consumer Communications & Networking Conference*, Las Vegas, Nevada USA, Jan 10-13, 2014.

10. Recent Professional Development Activities

• Air Force 2030 Initiative, College station, Texas, June 28-29, 2018.

- *New Approaches to Cybersecurity Education (NACE) Workshop*, New Orleans, Louisiana, June 9-10, 2018.
- Midwest Big Data Hub all-hands meeting, Omaha, Nebraska, October 2-3, 2017.
- *National Initiative for Cybersecurity Education (NICE) Conference*, Dayton, Ohio, November 7-8, 2017.