Chen Zhong

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INTEREST

My research interests span the areas of cybersecurity (security analytics, intrusion detection, cyber situation awareness), arti cial intelligence (knowledge representation and engineering), human-machine teaming, and data analysis.

EDUCATION

Pennsylvania State University, University Park, Pennsylvania USA

Ph.D, Information Sciences and Technology   May 2016
Advisor: Peng Liu, Co-Advisor: John Yen
Thesis: \A Cognitive Process Tracing Approach to Cybersecurity Data Triage Operations Automation"

Graduate Minor, Applied Statistics   2014

Nanjing University, Nanjing, China

Bachelor of Science, Computer Science and Technology   2011

ACADEMIC EXPERIENCE

Assistant Professor   Aug, 2020 - Present
Cybersecurity, Department of Information Technology Management, University of Tampa, Florida, USA

Assistant Professor   Aug, 2016 - May, 2020
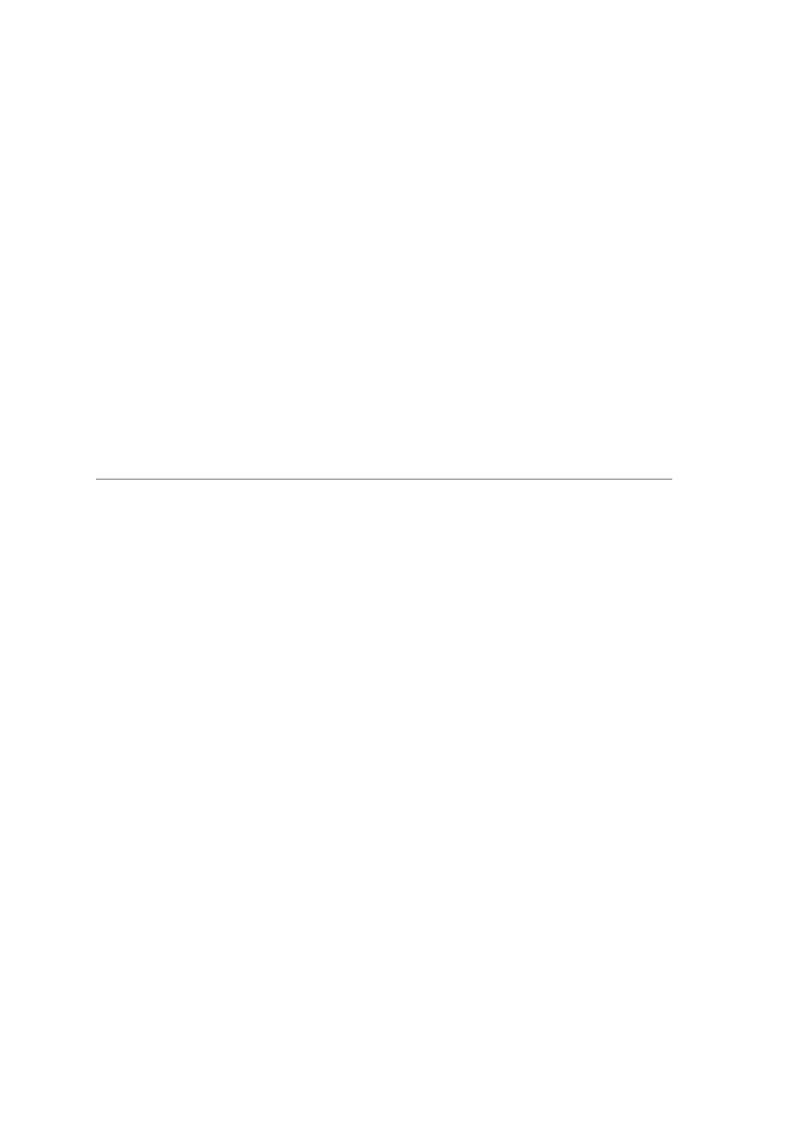Informatics and Computer Science, School of Science, Indiana University Kokomo, Indiana,

versity Park, Pennsylvania USA

Teaching Assistant Sep, 2015 - Dec, 2015
Information Sciences and Technologies, Pennsylvania State University, University Park, Pennsylvania USA

ACADEMIC HONORS AND AWARDS

- Indiana University Trustees Teaching Award 2019
- Indiana University Kokomo Summer Faculty Fellowship 2019
- Women in Cybersecurity (WiCys) Faculty Scholarship 2018
- Grace Hopper Faculty Scholarship 2017
- Indiana University Kokomo Summer Faculty Fellowship 2017
- (ISC)^2 Foundation Graduate Scholarship 2015
- 1st Place in Engineering, Graduate Exhibition, Pennsylvania State University 2015
- HotSoS Conference Student Travel Award 2015
- CogSIMA Conference Student Travel Awards 2015, 2014
- Grace Hopper Scholarship of Women in Computing 2013
- IEEE VAST Challenge 2013 Honorable Mention 2013
- Scholarship of 14 Inst. of China Electronics Technology Corp. (Awarded to top 1%) 2011
- National Undergraduate Innovation Grant, China's Ministry of Education 2010
- National Scholarship, China's Ministry of Education (Awarded to top 1%) 2010
- Outstanding Student Awards, Nanjing University, China 2010
- National Scholarship, China's Ministry of Education (Awarded to top 1%) 2009
- Outstanding Student Awards, Nanjing University, China 2009
- National Scholarship, China's Ministry of Education (Awarded to top 1%) 2008
- Outstanding Student Awards, Nanjing University, China 2008

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Students' Awards

- Grace Hopper Celebration (GHC) Student Scholarship 2018
- Women in Cybersecurity Student(WiCys) Scholarship 2019, 2018
- Best Poster Award of IUK ResearchSymposium 2018
- Travel Award for Presenting at National Conferences on Undergraduate Research(NCUR) 2018
- Best Poster Award of IUK ResearchSymposium 2017
- Travel Award for Presenting at NCUR 2017

PUBLICATIONS

[U]:Under submissionor Under preparation, [J]:Journal, [C]:Conferenceproceeding, [BC]:Book chapter, [T] thesis, *:Correspondingauthor

1. [C] Joshua Ian Bertrand, Alex Martakis, Hong Liu, Chen Zhong* , and Jun Yao, \Exploring Participants' Views of Cybersecurity Competitions Through the Lens of Social Media", acceptedby 2020 IEEE Conferenceon Cognitive and Computational Aspectsof Situation Management(CogSIMA), to appear.

2. [BC]Chen Zhong , John Yen, and PengLiu. \Can Cyber OperationsBe Made Autonomous? An Answer from the Situational AwarenessViewpoint." In Adaptive Autonomous SecureCyber Systems, pp. 63-88. Springer, Cham, 2020.

3. [C] Lindsey Thomas, MoisesBalders, ZachCourtney, Chen Zhong* , Jun Yao, and Chunxia Xu. \Cybersecurity Education: From Beginners to Advanced Players in Cybersecurity Competitions." In 2019 IEEE International Conferenceon Intelligence and Security Informatics (ISI), pp. 149-151. IEEE, 2019.

4. [C] Chen Zhong* , Awny Alnusair, Brandon Sayger, Aaron Troxell, and Jun Yao. \AOH-Map: A Mind Mapping Systemfor Supporting CollaborativeCyber Security Analysis." In 2019IEEE Conferenceon Cognitive and Computational Aspectsof Situation Management(CogSIMA), pp. 74-80. IEEE, 2019.

5. [J] Chen Zhong* , John Yen, PengLiu, and Robert F. Erbacher. \Learning from experts' experience:toward automated cyber security data triage." IEEE SystemsJournal (2018), 99, pp.1-12. (IF:4.463)

6. [J] Chen Zhong* , Tao Lin, Peng Liu, John Yen, and Kai Chen. \A cyber security data triage operation retrieval system." Computers& Security (2018), 76, pp.12-31. (IF:3.062)

7. [C] HongLiu*, Chen Zhong , \AssessingProgramming Education Approaches for CollegeBeginnerswith Di erent Backgrounds", the 10th International Conference On Education Technology And Computers (ICETC), pp. 136-139. ACM, 2018.

8. [BC] Tao Lin, Chen Zhong , John Yen, and Peng Liu*. \Retrieval of Relevant Historical Data Triage Operations in Security Operation Centers." In From Databaseto Cyber Security, pp. 227-243.Springer, Cham, 2018.

9. [C] LindseyThomas,Adam Vaughan,ZacharyCourtney, Chen Zhong* , Awny Alnusair. \Supporting Collaboration amongCyber Security Analysts through Visualizing their Analytical ReasoningProcesses".IEEE International Work-shopon Machine Learning and Arti cial   Intelligence for Multimedia Creation. In Conjunction with IEEE ICME '18. SanDiego,CA, USA. (2018).

10. [J] Chen Zhong* , Hong Liu, and Awny Alnusair. \Leveraging DecisionMak-ing in Cyber Security Analysis through Data Cleaning." SouthwesternBusiness Administration Journal 16, no. 1 (2017): 1

11. [J] Awny Alnusair*, Chen Zhong, Majdi Rawashdeh,M. Shamim Hossain, and Atif Alamri. \Context-aware multimodal recommendationsof multimedia data in cyber situational awareness."Multimedia Ter   Ter   \Con ( )Tj /T1_0 1 Tf 2.0

18. [BC] John Yen*, Robert F. Erbacher, Chen Zhong , and Peng Liu. \Cognitive Process." In Alexander Kott, Cli Wang and Robert F. Erbacher (Eds.), *Cyber Defense and Situational Awareness* (ISBN: 978-3-319-11390-6) pp. 119-144. Springer International Publishing, 2014.

19. [C] Chen Zhong* , Deepak S. Kirubakaran, John Yen, Peng Liu, Robert F. Erbacher, Steve Hutchinson, Renee Etoty, Hasan Cam, and William Glodek. \RankAOH: Context-Driven Similarity-Based Retrieval of Experiences in Cyber Analysis." In *proceedings of Cognitive Methods in Situation Awareness and Decision Support (CogSIMA)*, pp. 230-236. IEEE, 2014.

20. [C] Chen Zhong* , Deepak S. Kirubakaran, John Yen, Peng Liu, Steve Hutchinson, and Hasan Cam. \How to Use Experience in Cyber Analysis: An Analytical Reasoning Support System." In *proceedings of Intelligence and Security Informatics (ISI)*, pp. 263-265. IEEE, 2013.

21. [C] Chen Zhong* , Mingyi Zhao, Gaoyao Xiao, and Jun Xu, \Leveraging Visualization Function in Hypothesis-Based Collaboration on Cyber Analysis.", IEEE VIS 2013 VAST Challenge Workshop, Atlanta, GA, 2013. *Honorable Mention*.

22. [C] Mingyi Zhao*, Chen Zhong, Richard Ciamaichelo, Michael Konek, Neela Sawant and Nicklaus A. Giacobe. \Federating Geovisual Analytic tools for Cyber Security Analysis." In *2012 IEEE Conference on Visual Analytics Science and Technology (VAST)*, pp. 303-304. IEEE, 2012 (Short Paper).

UNIVERSITY SERVICES

- Inforamtics and Computer Science Faculty Search, Committee Member, Indiana University Kokomo   2019, 2018
- IU Science Symposium 2019, Committee Member, Indiana University Kokomo 2019
- IUK Science Fair, Task Force Member, Indiana University Kokomo 2018, 2017
- Math Faculty Search, Committee Member, Indiana University Kokomo   2018
- Computer Science Faculty Search, Committee Member, Indiana University Kokomo 2017
- Faculty Development and Grants, Committee Member, Indiana University Kokomo 2017
- Informatics Club, Advisor, Indiana University Kokomo   2019-2017
- Women of Technology Club, Advisor, Indiana University Kokomo   2019, 2018

Mentor
- Advisor, IUK Informatics Club
- Advisor, IUK Women in Technology (WiTS)
- Coach, National Cyber League, IUK team

PROFESSIONAL SERVICES AND MEMBERSHIP

Committee

- Program Committee, the Special Issue on the NICE Framework of the Cyber-security Skills Journal, 2020
- Panelist, National CyberWatch Center Curriculum Standards Panel for Information Security Fundamentals, 2019
- Program Committee, the IEEE Conference on Cognitive and Computational Aspects of Situation Management (CogSIMA 2019, CogSIMA 2018).
- Program Committee, the International Conference on Software Security (ICSS 2019).

Program Security and Mcurity Mvmmittee,

- Program Committee, Women in Cybersecurity Conference (Wicys 2019).
- Program Committee, the Tenth   Security in Management Menth Committee,

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