JEONGKEUN SHIN

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EDUCATION

Doctor of Philosophy (Ph.D.) in Societal Computing Master of Science (M.S.) in Societal Computing

Center for Computational Analysis of Social and Organizational Systems (CASOS)

Software and Societal Systems Department, School of Computer Science, Carnegie Mellon University

Advisor : Professor Kathleen M. Carley

Doctor of Philosophy (Ph.D.) in Electrical and Computer Engineering

Center for Computational Analysis of Social and Organizational Systems (CASOS)

Department of Electrical and Computer Engineering, Carnegie Institute of Technology, Carnegie Mellon University

Advisor: Professor Kathleen M. Carley

Completed Coursework Requirements / Transferred to Software and Societal Systems Department

Master of Science (M.S.) in Electrical and Computer Engineering

CyLab Biometrics Center

Department of Electrical and Computer Engineering, Carnegie Institute of Technology, Carnegie Mellon University

Advisor: Professor Marios Savvides

Bachelor of Science in Engineering (B.S.E.) in Computer Science

Crowd+Machine (CroMa) Lab & Illinois Geometry Lab

College of Engineering, University of Michigan

Advisor: Professor Walter S. Lasecki & Professor Xin Zhang @ UIUC

Class of 2019 Ann Arbor, MI

Pittsburgh, PA

Sep 2024 - Now

Sep 2024 - Now

Jan 2022 - Aug 2024

Jan 2020 - May 2021

Pittsburgh, PA

Pittsburgh, PA

PUBLICATIONS

Conference Proceedings

- [C.5] Shin, J., Carley, K. M., & Carley, L. R. (2024, May). Simulation-Based Study on False Alarms in Intrusion Detection Systems for Organizations Facing Dual Phishing and DoS Attacks. In 2024 Annual Modeling and Simulation Conference (ANNSIM) Forthcoming. IEEE.
 Pest Paper Runner Up Award
- [C.4] Shin, J., Carley, K. M., & Carley, L. R. (2023, September). Integrating Human Factors into Agent-Based Simulation for Dynamic Phishing Susceptibility. In International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction and Behavior Representation in Modeling and Simulation (pp. 169-178). Cham: Springer Nature Switzerland.
- [C.3] Shin, J., Carley, L. R., Dobson, G. B., & Carley, K. M. (2023, December). Beyond Accuracy: Cybersecurity Resilience Evaluation of Intrusion Detection System against DoS Attacks using Agent-based Simulation. In 2023 Winter Simulation Conference (WSC) (pp. 118-129). IEEE.
- [C.2] Shin, J., Carley, L. R., Dobson, G. B., & Carley, K. M. (2023, May). Modeling and simulation of the human firewall against phishing attacks in small and medium-sized businesses. In 2023 Annual Modeling and Simulation Conference (ANNSIM) (pp. 369-380). IEEE.
- [C.1] Shin, J., Dobson, G. B., Carley, K. M., & Carley, L. R. (2022, September). OSIRIS: organization simulation in response to intrusion strategies. In International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction and Behavior Representation in Modeling and Simulation (pp. 134–143). Cham: Springer International Publishing.

Posters / Extended Abstracts

- [P.2] Shin, J., Dobson, G. B., Carley, K. M., & Carley, L. R. (2022, December). Leveraging OSIRIS to simulate real-world ransomware attacks on organization. In 2022 Winter Simulation Conference (WSC) Poster Session.
- [P.1] Shin, J., Xu, Y., Zhang, C., Zhang, X., & Li, J. (2017, May). Finding integers from group orbits. Illinois Geometry Lab (IGL) Spring 2017 Open House

Technical Reports

[T.1] Shin, J., Dobson, G. B., Carley, L. R., & Carley, K. M. (2023, December). Revelation of System and Human Vulnerabilities Across MITRE ATT&CK Techniques with Insights from ChatGPT. In CASOS Technical Report

? AWARDS & ACHIEVEMENTS

2023 Annual Modeling and Simulation Conference (ANNSIM) Best Paper Runner Up Award

MENTORING

June 2024 - July 2024

Tanav Changal · Summer Internship · Troy High School

May 2023 - August 2023 Devashish Ubale · MITS Program Summer Internship · Master of Information Technology Strategy (MITS), Carnegie

Mellon University · First Position: FPrime AI

ACADEMIC SERVICES

Peer Review

- The Journal of Artificial Societies and Social Simulation (JASSS) [2024]
- 2024 Annual IDeaS Conference: Disinformation, Hate Speech, and Extremism Online
- 2024 International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS)
- 2024 Winter Simulation Conference (WSC) Agent-Based Simulation Track