

PUBLICATION (2015 – Present)

- Yen-Hung Hu, “A Study on the Challenges of Building a Trustworthy Network”, in Proceeding of Virginia Academy of Science (VAS) 2015 Annual Meeting, May 21-23, 2015, James Madison University, Harrisburg, Virginia, USA. (Conference Abstract)
- Yen-Hung Hu, “A Visualization Tool for Monitoring, Predicting and Mitigating Network Intrusions”, in Proceeding of Virginia Academy of Science (VAS) 2015 Annual Meeting, May 21-23, 2015, James Madison University, Harrisburg, Virginia, USA. (Conference Abstract)
- Yen-Hung Hu, “Development of a Dynamical Systems Approach to Monitor Network Activities,” 2015 CISSE, June 14-18, 2015, Las Vegas, Nevada, USA. (Conference Poster - The best research poster award)
- Yen-Hung Hu, “Using Open Source Vulnerability Analysis Tools To Assess Coding Security And Quality”, in Proceeding of Virginia Academy of Science (VAS) 2016 Annual Meeting, May 18-20, 2016, University of Mary Washington, Fredericksburg, Virginia, USA. (Conference Abstract)
- Yen-Hung Hu, “Dynamical System Modeling”, in Proceeding of Virginia Academy of Science (VAS) 2016 Annual Meeting, May 18-20, 2016, University of Mary Washington, Fredericksburg, Virginia, USA. (Conference Abstract)
- Shawnee L. Parker and Yen-Hung Hu, "Content Mining Techniques for Detecting Cyberbullying in Social Media", Virginia Journal of Science, Vol. 67 (2016), No. 3. (Journal Paper)
- Yen-Hung Hu and Thomas Kofi Annan, “Assessing Java Coding Vulnerabilities in Undergraduate Software Engineering Education by Using Open Source Vulnerability Analysis Tools,” Journal of the Colloquium for Information System Security Education. Vol 4, No 2 (2016). (Journal Paper)
- Yen-Hung Hu and Shawnee L. Parker, “Big Data Content Mining Techniques for Detecting Cyberbullying in Social Media”, in Proceeding of Virginia Academy of Science (VAS) 2017 Annual Meeting, May 17-19, 2017, Virginia Commonwealth University, Richmond, Virginia, USA. (Conference Abstract)
- Yen-Hung Hu and Thomas Kofi Annan, “Review of secured mobile application development process in the industry”, in Proceeding of Virginia Academy of Science (VAS) 2017 Annual Meeting, May 17-19, 2017, Virginia Commonwealth University, Richmond, Virginia, USA. (Conference Abstract)
- Abdinur Ali, Yen-Hung Hu, Chung-Chu (George) Hsieh, Mushtaq Khan, “A Comparative Study on Machine Learning Algorithms for Network Defense”, Virginia Journal of Science: Vol. 68, No. 3, Article 1, 2017. (Journal Paper)
- Leah Winkfield, Yen-Hung Hu, Mary Ann Hoppa, “A Study of the Evolution of Secure Software Development Architectures,” in Conference Program of the CISSE 2018, June 9-13, 2018, New Orleans, Louisiana, USA. (Conference Abstract)
- Leah Winkfield, Yen-Hung Hu, Mary Ann Hoppa, “A Study of the Evolution of Secure Software Development Architectures,” Journal of the Colloquium for Information System Security Education. Vol 6, No 1 (2018). (Journal Paper)

- Abdinur Ali, Yen-Hung Hu, Cheryl Hinds, Jonathan Graham, Chung-Chu (George) Hsieh “Diffusion Metrics of the AES Symmetric Cryptosystem,” in Conference Program of CISSE 2018, June 9-13, 2018, New Orleans, Louisiana, USA. (Conference Abstract)
- Abdinur Ali, Yen-Hung Hu, Cheryl Hinds, Jonathan Graham, Chung-Chu (George) Hsieh “Diffusion Metrics of the AES Symmetric Cryptosystem”, in Proceeding of FCS’18, July 30 - August 2, 2018, Las Vega, Nevada, USA. (Conference Paper)
- Abdinur Ali, Yen-Hung Hu, Chung-Chu (George) Hsieh, Mushtaq Khan, “Detailed Analysis of Network Attack Detection Accuracy Using Machine Learning Algorithms”, in Proceeding of ICAI’18, July 30 – August 2, 2018, Las Vega, Nevada, USA. (Conference Paper)
- Yen-Hung Hu, Nathan Mensah, Mary A. Hoppa, “A Case Study of BYOD Security Platforms Assessment”, in Proceeding of Virginia Academy of Science (VAS) 2018 annual VAS Meeting, May 23-25, 2018, Longwood University, Farmville, Virginia, USA. (Conference Abstract)
- Yen-Hung Hu, Leah Winkfield, Mary A. Hoppa, “A Case Study of Securing Modern Application Architectures”, in Proceeding of Virginia Academy of Science (VAS) 2018 annual VAS Meeting, May 23-25, 2018, Longwood University, Farmville, Virginia, USA. (Conference Abstract)
- Yen-Hung Hu, Abdinur Ali, Chung-Chu Hsieh, Aurelia Williams, “Machine Learning Techniques for Classifying Malicious API Calls and N-Grams in Kaggle Dataset”, In Proceeding of 2019 IEEE SoutheastCon, April 11-14, 2019, Huntsville, Alabama, USA. (Conference Paper)
- Yen-Hung Hu, Dawn Silverman, Mary Ann Hoppa, “Vulnerability Assessments for SCADA Devices”, in Proceeding of Virginia Academy of Science (VAS) 2019 Annual VAS Meeting, May 22-24, 2019, Old Dominion University, Norfolk, Virginia, USA. (Conference Abstract)
- Yen-Hung Hu, Abdinur Ali, Chung-Chu (George) Hsieh, Aurelia Williams, “Machine Learning Techniques for Malware Classification”, in Proceeding of Virginia Academy of Science (VAS) 2019 Annual VAS Meeting, May 22-24, 2019, Old Dominion University, Norfolk, Virginia, USA. (Conference Abstract)
- Yen-Hung Hu, Felton Blow, Mary Ann Hoppa, “A Case Study of Wearable Technology Vulnerabilities – Fitbits”, in Proceeding of Virginia Academy of Science (VAS) 2019 Annual VAS Meeting, May 22-24, 2019, Old Dominion University, Norfolk, Virginia, USA. (Conference Abstract)
- Oriël Rivers; Yen-Hung (Frank) Hu; Mary Ann Hoppa, “A Study on Cyber Attacks and Vulnerabilities in Mobile Payment Applications”, in Proceeding of CISSE 2019, June 10-12, 2019, Las Vegas, Nevada, USA. (Conference Paper)
- Felton Blow; Yen-Hung (Frank) Hu; Mary Ann Hoppa, “A Study on Vulnerabilities and Threats to Wearable Devices”, in Proceeding of CISSE 2019, June 10-12, 2019, Las Vegas, Nevada, USA. (Conference paper)
- Dawn Silverman; Yen-Hung (Frank) Hu; Mary Ann Hoppa, “A Study on Vulnerabilities and Threats to SCADA Devices”, in Proceeding of CISSE 2019, June 10-12, 2019, Las Vegas, Nevada, USA. (Conference Paper)

- Jalen Mack, Yen-Hung (Frank) Hu, Mary Ann Hoppa, “A Study of Existing Cross-Site Scripting Detection and Prevention Techniques Using XAMPP and Virtual Box”, *Virginia Journal of Science*, 70(3), 23 pp, 2019. (Journal Paper)
- Oriël Rivers; Yen-Hung (Frank) Hu; Mary Ann Hoppa, “A Study on Cyber Attacks and Vulnerabilities in Mobile Payment Applications”, *Journal of the Colloquium for Information System Security Education*, Vol. 7, No. 1 (2020). (Journal Paper)
- Felton Blow; Yen-Hung (Frank) Hu; Mary Ann Hoppa, “A Study on Vulnerabilities and Threats to Wearable Devices”, *Journal of the Colloquium for Information System Security Education*, Vol. 7, No. 1 (2020). (Journal Paper)
- Dawn Silverman; Yen-Hung (Frank) Hu; Mary Ann Hoppa, “A Study on Vulnerabilities and Threats to SCADA Devices”, *Journal of the Colloquium for Information System Security Education*, Vol. 7, No. 1 (2020). (Journal Paper)
- Dominicia Williams, Yen-Hung (Frank) Hu, Mary Ann Hoppa, “Follow the Money Through Apple Pay,” *Journal of the Colloquium for Information System Security Education 2020*, Vol. 8, No. 1, 2020. (Journal Paper)
- Dar’rell Pope, Yen-Hung (Frank) Hu, Mary Ann Hoppa, “A Survey on Securing Personally Identifiable Information on Smartphones,” *Virginia Journal of Science 2020*. (Journal Paper)
- Abhinav Kommula, Yen-Hung (Frank) Hu, Mary Ann Hoppa, Samuel Olatunbosun, “Machine Learning Techniques to Enhance Container Network Security,” in *Proceeding of the 2020 International Conference on Computational Science and Computational Intelligence CSCI’20*, December 16-18, 2020, Las Vegas, USA. (Conference Paper)
- Charles Hu, Yen-Hung (Frank) Hu, “Data Poisoning on Deep Learning Models,” in *Proceeding of the 2020 International Conference on Computational Science and Computational Intelligence CSCI’20*, December 16-18, 2020, Las Vegas, USA. (Conference Paper)
- Danielle D. Godsey, Yen-Hung (Frank) Hu, Mary Ann Hoppa, “A Multi-Layered Approach to Fake News Identification, Measurement and Mitigation,” in *Proceeding of Future of Information and Communication Conference (FICC) 2021*, April 29-31, 2021, Vancouver, Canada. (Conference Paper)
- Yen-Hung (Frank) Hu, Danielle D. Godsey, Mary Ann Hoppa, “A Multi-Layered Fake News Identifier Approach for Fake News Identification and Mitigation”, 2021 Virginia Academy of Science Annual VAS Meeting, May 18, 2021, online. (Conference Abstract)
- Yen-Hung (Frank) Hu, “A Deep Learning Approach for Advanced Persistent Threats Analysis and Measurement”, 2021 Virginia Academy of Science Annual VAS Meeting, May 18, 2021, online. (Conference Abstract)
- Yen-Hung (Frank) Hu, Chung-Chu (George) Hsieh, “A Study of Classifying Advanced Persistent Threats With Multi-Layered Deep Learning Approaches”, will appear in *Proceeding of the 13th International Workshop on Cyberspace Security and Artificial Intelligence (CAI-2021)*, October 1 – 3, 2021, New York, USA. (Conference Paper)
- Yen-Hung (Frank) Hu, “Providing A Hands-on Advanced Persistent Threat Learning Experience Through Ethical Hacking Labs”, in *Proceeding of the 2021 Colloquium on Information Systems Security Education (CISSE) conference*. (Conference Paper)

- Yelena Arishina, Yen-Hung Hu, Mary Ann Hoppa, “A Study of Video Conferencing Software Risks and Mitigation Strategies”, in Proceeding of the 2021 Colloquium on Information Systems Security Education (CISSE) conference. (Conference Paper)
- Michelle Hu, Yen-Hung (Frank) Hu, “The Effects of Different Parameters on the Accuracy of Deep Learning Models for Predicting U.S. Citizen’s Life Expectancy”, in Proceeding of the 2021 International Conference on Computational Science and Computational Intelligence CSCI’21, December 15-17, 2021, Las Vegas, USA. (Conference Paper)