

**Yu Chen, Ph.D.** Associate Director, Center for Information Assurance and Cybersecurity (CIAC)  
 Associate Professor, Department of Electrical & Computer Engineering  
 Binghamton University – State University of New York, Binghamton, New York 13902  
**Contact Info.** Email: [ychen@binghamton.edu](mailto:ychen@binghamton.edu) Tel: (607) 777 – 6133 Fax: (607) 777 – 4464  
**URL** <http://bingweb.binghamton.edu/~ychen>

## BIOGRAPHICAL SKETCH

Dr. Yu Chen is an Associate Professor of Electrical and Computer Engineering at the Binghamton University - State University of New York (SUNY). He received the Ph.D. in Electrical Engineering from the University of Southern California (USC) in 2006. Leading the Ubiquitous Smart & Sustainable Computing (*US<sup>2</sup>C*) Lab, his research interest lies in Trust, Security and Privacy in Computer Networks, including Edge-Fog-Cloud Computing, Internet of Things (IoT), and their applications in smart and connected environments. Dr. Chen's publications include over 150 papers in scholarly journals, conference proceedings, and books. His research has been funded by NSF, DoD, AFOSR, AFRL, New York State, and industrial partners. He has served as a reviewer for NSF panels and many international journals, and on the Technical Program Committee (TPC) of prestigious conferences. He is a Senior Member of IEEE (Computer Society & Communication Society) and SPIE, and a member of ACM.

## SELECTED SPONSORED RESEARCH (From 30+ Projects)

- [G1] DoD Defense University Research Instrumentation Program (DURIP), “5G-MiWIS: A Testbed for an Environmental Resilient 5G Millimeter Wave Imaging Technology based Surveillance System,” February 01, 2020 – January 31, 2021, \$295,281;
- [G2] US Air Force Research Lab (AFRL), “A Study on False Video Injection (FVI) Attacks on Video Surveillance Systems,” June 1, 2019– February 28, 2020, \$68,000;
- [G3] NSF EARS program, CNS-1443885, “Collaborative Research: Intelligence Measure of Cognitive Radio Networks,” Jan. 1, 2015 – Dec. 31, 2018, \$680,145;
- [G4] PI, *Intelligent Fusion Technology, Inc.*, “A Secure, Real-Time Resource Provisioning Cloud Architecture for Elastic Information Fusion,” August 14, 2012 – May 30, 2015, \$90,000;
- [G5] US Air Force Office of Scientific Research, “Detection of Covertly Embedded Hardware in Digital Systems,” April 1, 2010 – February 28, 2014, \$449, 931;
- [G6] DoD Defense University Research Instrumentation Program (DURIP), “A Testbed for Reconfigurable Network Security Research and Experiment,” June 2008 – May 2009, \$214, 385;

## SELECTED PROFESSIONAL ACTIVITIES

1. Chair, IEEE Computer Society, Binghamton Chapter, 2012 ~ 2013; Secretary, IEEE Communication Society, Binghamton Chapter, 2012 ~ 2013; Vice Chair, IEEE Communication Society, Binghamton Chapter, 2009 ~ 2011.
2. Associate Editor, the International Journal of Intelligent Information Processing (IJIP), 2010 ~; Associate Editor, Wireless Communications and Mobile Computing, 2017 ~
3. Founder and Program Chair: the International Workshop on BLockchain Enabled Sustainable Smart Cities (BLESS 2018, 2019), the International Workshop on Lightweight Blockchain for Edge Intelligence and Security (LightChain 2019), etc.
4. Conference Organizers: Area Co-Chair for the ICCCN 2020 on the track topic of Multimedia and Real-Time Networking (MRN), Workshop Co-Chair for the 4<sup>th</sup> IEEE International Smart Cities Conference (ISC2 2018), Treasurer for the 2015 ACM Conference on Computer and Communications Security (CCS 2015), etc.
5. Technical Program Committee (TPC) of top tier academic conferences, including IEEE INFOCOM (2015 – 2019), IEEE ICC (2007 – 2019), IEEE GLOBECOM (2007 – 2019), etc.

**EDUCATION**

- Ph.D. Electrical Engineering  
University of Southern California, Los Angeles, California, USA, Dec. 2006.  
Thesis: “*Collaborative Detection and Filtering of DDoS Attacks in ISP Core Networks*”  
Advisor: Professor Kai Hwang
- M.S. Electrical Engineering  
University of Southern California, Los Angeles, California, USA, Dec. 2002.
- M.S. Electrical Engineering  
Chongqing University, Chongqing, China, June 1997.
- B.S. Electrical Engineering in Opto-Electronic Precise Instruments  
Chongqing University, Chongqing, China, June 1994.

**WORKING EXPERIENCES**

- *Associate Professor*, Jan. 2013 – Present, Department of Electrical & Computer Engineering, Binghamton University, State University of New York, USA.
- *Assistant Professor*, Jan. 2007 – Dec. 2012, Department of Electrical & Computer Engineering, Binghamton University, State University of New York, USA.
- *Summer Faculty Fellow*, 2012 – 2015, 2018, 2019, U.S. Air Force Research Laboratory, Visiting Faculty Research Program and Summer Faculty Fellowship Program (AFRL/VFRP & SFFP).

**MOST RELATED PUBLICATIONS (From 150+ in total)**

- [1] S. Nikouei, **Y. Chen**, A. Aved, E. Blasch, and T. Faughnan, “I-SAFE: Instant Suspicious Activity identification at the Edge using Fuzzy Decision Making,” *the 4<sup>th</sup> ACM/IEEE Symposium on Edge Computing (SEC 2019)*, Washington DC, November 7-9, 2019.
- [2] A. Fitwi, **Y. Chen**, and S. Zhu, “No Peeking through My Windows: Conserving Privacy in Personal Drones,” *the 5<sup>th</sup> IEEE International Smart Cities Conference (ISC2 2019)*, Casablanca, Morocco, October 14 - 17, 2019.
- [3] D. Nagothu, **Y. Chen**, E. Blasch, A. Aved, and S. Zhu, “Detecting Malicious False Frame Injection Attacks on Surveillance Systems at Edge using Electrical Network Frequency Signals,” *Sensors 2019 19(2424), Special Issue on Intelligent Signal Processing, Data Science and the IoT World*, MDPI, May 2019.
- [4] S. Nikouei, **Y. Chen**, S. Song, B.-Y. Choi, and T. Faughnan, “Toward Intelligent Surveillance as an Edge Network Service (iSENSE) using Lightweight Detection and Tracking Algorithms,” *the IEEE Transactions on Services Computing (IEEE TCS)*, May 2019.
- [5] Z. Yang, **Y. Chen**, N. Zhou, A. Polunchenko, and Y. Liu, “Data-Driven Online Distributed Disturbance Location for Large Scale Power Grids,” *IET Smart Grid*, April 2019.
- [6] R. Xu, **Y. Chen**, E. Blasch, and G. Chen, “An Exploration of Blockchain Enabled Decentralized Capability-based Access Control Strategy for Space Situational Awareness,” *Opt. Eng. 58(4), 041609 (2019)*, doi: 10.1117/1.OE.58.4.041609.
- [7] S. Y. Nikouei, **Y. Chen**, A. Aved, and E. Blasch, “EIQIS: Toward an Event-Oriented Indexable and Queryable Intelligent Surveillance System,” *IEEE MMTC Communications – Frontiers, Special Issue on Edge Computing for Real-Time Multimedia Systems*, Vol. 13, No. 4, July 2018.
- [8] R. Xu, **Y. Chen**, E. Blasch, and G. Chen, “BlendCAC: A Smart Contract Enabled Decentralized Capability-based Access Control Mechanism for IoT,” *Computers 2018 7(3), Special Issue on Mobile Edge Computing*, MDPI, July 2018.