

Curriculum Vitae, Yu Chen

Yu Chen, Ph.D., Professor

Director, Ubiquitous Smart & Sustainable Computing (US²C) Lab
Associate Director, Center for Information Assurance and Cybersecurity
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BIOGRAPHICAL SKETCH

Dr. Yu Chen is a Professor of Electrical and Computer Engineering at the Binghamton University - State University of New York (SUNY). He received a Ph.D. in Electrical Engineering from the University of Southern California (USC) in 2006. Leading the Ubiquitous Smart & Sustainable Computing (US²C) Lab, his research interest focuses on Trust, Security, and Privacy in Computer Networks, including Edge-Fog-Cloud Computing, the Internet of Things (IoT), and their applications in smart and connected environments. Dr. Chen's publications include over 200 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, DoE Independent Review panel, and 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 and SIGMA XI.

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 in Opto-Electronic Precise Instruments
Chongqing University, Chongqing, China, June 1997.
Thesis: “*High Precision Non-Contact Metrology on Irregular Rotation Profiles*”
Advisor: Professor Xianxin Zhong
- B.S. Electrical Engineering in Opto-Electronic Precise Instruments
Chongqing University, Chongqing, China, June 1994.

WORKING EXPERIENCES

- **Professor**, Sept. 2022 – Present, Department of Electrical & Computer Engineering, Binghamton University, State University of New York, USA.
- **Associate Professor**, Jan. 2013 – Aug. 2022, 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.
- **Graduate Research Assistant**, May 2001 – Dec. 2006, Department of Electrical Engineering-Systems, University of Southern California (USC), Los Angeles, California, USA.

OTHER APPOINTMENTS

- *Associate Director*, Aug. 2019 – Present, Center for Information Assurance and Cybersecurity (CIAC), Binghamton University, State University of New York, USA.
- *Summer Faculty Fellow*, 2012 – 2015, 2018 – 2022, U.S. Air Force Research Laboratory, Summer Faculty Fellowship Program, Visiting Faculty Research Program (AFRL/SFFP & VFRP).
- *Member – Faculty Senate Standing Committee* (ITS Research Computing Advisory Committee), Sept. 2021 – Present, Binghamton University, State University of New York, USA.
- *Member – Diversity, Equity, and Inclusion (DE & I) Committee*, Aug. 2022 – Present, Department of Electrical and Computer Engineering, Binghamton University, State University of New York, USA.
- *Member - Graduate Council* (Student Affairs/Budget Advisory Committee), Aug. 2017 – Jul. 2020, Binghamton University, State University of New York, USA.
- *Graduate Program Director*, Sep. 2013 – May 2018, Department of Electrical and Computer Engineering, Binghamton University, State University of New York, USA.

HONORS & AWARDS

- Best Poster Award (3rd), AFRL SFFP/VFRP, 2022
- Best Paper Award, IEEE CIC 2020
- SPIE Community Champion 2020
- 2019 Best Paper Award, MDPI Computers
- Best Paper Award, IEEE CCNC 2019
- SPIE Community Champion 2019
- Best Paper Award, MMM-ACNS 2017
- Distinguished TPC member, IEEE INFOCOM 2017
- Outstanding Faculty Researcher, Department of Electrical and Computer Engineering, Binghamton University, Spring 2014.
- Best Paper Award, ChinaCom, 2008.

SPONSORED RESEARCH

External Awards

- [G1] **Co-PI**, *DoD-STTR, FA9550-22-P-0011*, “ROBOT: Resilience Oriented Blockchain Operational Transactor for Urban Air Mobility Networks,” June 01, 2022 – May 29, 2023, \$225,000 (BU’s share: \$60,000);
- [G2] **Co-PI**, *NSF, SFS-2146212*, “Binghamton University Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce,” with PI Dr. Ping Yang, Co-PIs Dr. Kartik Gopalan, Dr. Dimitry Ponomarev, and Dr. Aravind Prakash, February 01, 2022 – January 31, 2027, \$3,520,400;
- [G3] **PI**, *NSF, CNS-2141468*, “EAGER: SaTC: CORE: Small: Decentralized Data Assurance by Fair Proof of Work Consensus Federated Ledgers,” October 01, 2021 – September 30, 2023, \$100,000;
- [G4] **PI**, *AFOSR Dynamic Data and Information Processing Program (DDIP), FA9550-21-1-0229*, “ERSSES-5G: Integrated 5G Imaging and Communication Surveillance as an Edge Service Secured by a Lightweight Environmental Fingerprint Consensus Blockchain,” May 15, 2021 – May 14, 2024, with Co-PI Dr. Xiaohua (Edward) Li, \$297,082;

- [G5] **PI**, *Technergetics, LLC*, “Drones, Phones, and Cones: The IoT Sensing Grid,” March 01, 2021 – May 31, 2021, \$77,000;
- [G6] **PI**, *NSF, CNS-2039342*, “EAGER: SaTC: CORE: Small: SAVED: Secure Audio and Video Data from Deepfake Attacks Leveraging Environmental Fingerprints,” October 01, 2020 – September 30, 2023, \$257,049;
- [G7] **PI**, *DoD Defense University Research Instrumentation Program (DURIP), FA9550-20-1-0237*, “5G-MiWIS: A Testbed for an Environmental Resilient 5G Millimeter Wave Imaging Technology based Surveillance System,” Sept. 15, 2020 – Sept. 14, 2023, with Co-PI Dr. Xiaohua (Edward) Li, \$295,282;
- [G8] **PI**, *US Air Force Research Lab (AFRL), SA20190560031244*, “Real-Time Detecting Visual Layer Attacks on Video Surveillance Systems Using ENF Signals,” June 1, 2019– February 28, 2020, \$68,000;
- [G9] **Co-PI**, *NSF EARS program, CNS-1443885*, “Collaborative Research: Intelligence Measure of Cognitive Radio Networks,” with PI Dr. Xiaohua (Edward) Li, Co-PI Dr. Kai Zeng, Jan. 1, 2015 – Dec. 31, 2018, \$680,145 (BU’s Share \$454,999);
- [G10] **PI**, *US Air Force Research Lab (AFRL)*, “Dynamic, Intelligent Urban Surveillance using Fog Computing,” July 1, 2016– June 30, 2017, \$22,000;
- [G11] **Co-PI**, *NSF EARS program*, “Collaborative Research: Intelligence Measure of Cognitive Radio Networks,” REU supplement, with PI Dr. Xiaohua (Edward) Li, May 1, 2015 – April 30, 2016, \$16, 000;
- [G12] **Senior Personnel**, *NSF SaTC Program*, “TWC SBE: Small: Collaborative Research: Brain Password: Exploring A Psychophysiological Approach for Secure User Authentication,” PI Dr. Zhanpeng Jin, Co-PI Dr. Sarah Laszlo, October 1, 2014 – September 30, 2017, \$345,188;
- [G13] **PI**, *Intelligent Fusion Technology, Inc.*, “Development of a Dynamic Data Driven, Process-based, and Adaptive Cloud Architecture,” August 14, 2014 – May 30, 2015, \$30,000;
- [G14] **Senior Personnel**, *The Southern Tier Regional Economic Development Council*, “Southern Tier Telemedicine and Mobile Health Research, Development, and Training Center (STTMH-RDTC),” PI Dr. Mohammad Khasawneh, February 16, 2015 – August 15, 2019, \$1,666,163;
- [G15] **PI**, *Intelligent Fusion Technology, Inc.*, “Design and Development of Cloud Computing based Service for Robots Applications,” October 29, 2012 – August 29, 2013, \$30,000;
- [G16] **PI**, *NSF CNS program*, “CRI-IAD: Infrastructure Acquisition and Development for Computer Architecture Research and Education,” May 4, 2011 – September 30, 2012, \$52, 000;
- [G17] **Co-PI**, *AFOSR*, “Detection of Covertly Embedded Hardware in Digital Systems,” April 1, 2010 – February 28, 2014, with PI Dr. Douglas Summerville, \$449, 931;
- [G18] **Co-PI**, *DoD Defense University Research Instrumentation Program (DURIP)*, “A Testbed for Reconfigurable Network Security Research and Experiment,” June 2008 – May 2009, with PI Dr. Douglas Summerville, \$214, 385;

Internal Awards

- [G19] **PI**, *Binghamton University, Transdisciplinary Area of Excellence Seed Grant (TAE)*, “ECAP: Environmental Context based Anomalous Activity Prediction for the Safety and Security of Sustainable Community,” June 1, 2018 – May 31, 2019, with Co-PIs Dr. Chengbin “Ben” Deng and Mr. Timothy Faughnan, \$6,800;
- [G20] **Co-PI**, *Binghamton University, Transdisciplinary Area of Excellence Seed Grant (TAE)*, “IAS4 - An Integrated Advanced Sensing and Smart Surveillance System for Urban Sustainability,” June 1, 2017 – May 31, 2018, with PI Dr. Chengbin “Ben” Deng and Co-PI Dr. Aleksey Polunchenko, \$10,000;
- [G21] **PI**, *Binghamton University, Transdisciplinary Area of Excellence Seed Grant (TAE)*, “A Novel Statistical-

Analytic Cloud Approach to Autonomous, Real-Time Threat Detection in Modern Smart Grid Networks,” July 1, 2014 – June 30, 2015, with Co-PI Dr. Aleksey Polunchenko, \$20,000;

- [G22] **Co-PI**, *Binghamton University, Transdisciplinary Area of Excellence Seed Grant (TAE)*, “Energy Harvesting from Mechanical Vibrations Using Nonlinear Resonators for Wireless Sensor Networks,” Aug. 1, 2014 – July 30, 2015, with PI Dr. Shahrzad "Sherry" Towfighian and Co-PI Dr. Alok Rastogi, \$15,000;
- [G23] **PI**, *Binghamton University, Team-Taught Interdisciplinary Course Development Program*, “Contemporary Statistical Cybersecurity,” January 1, 2014 – December 31, 2014, with PI Dr. Aleksey Polunchenko, \$9,000;
- [G24] **PI**, *Binghamton University, Academic Program and Faculty Development Fund (AP/FD)*, “Toward Development of a Comprehensive Master’s Program in Cyber Security Engineering,” January 1, 2012 – December 31, 2012, with Co-PIs Dr. Scott Craver, Dr. Jessica Fridrich, Dr. Victor Skormin, and Dr. Douglas Summerville, \$11,040;
- [G25] **PI**, *Binghamton University, Interdisciplinary Collaboration Research Grant (ICG)*, “A Self-Powered Evolutionary Wireless Sensor Network,” June 1, 2011 – May 31, 2012, with Co-PIs Dr. Christopher Twigg and Dr. Omowunmi Sadik, \$10,000;
- [G26] **Co-PI**, *Academic Programs and Faculty Development Fund Program, Binghamton University*, “New Interdisciplinary Graduate Concentration/Certificate Programs in Complex Systems Science and Engineering,” January 2011 – December 2011, with PI Dr. Hiroki Sayama, Co-PIs Dr. Craig Laramée, Dr. Andreas Pape, Dr. Kenneth Chiu, Dr. Harold Lewis, Dr. Nagen Nagarur, and other members of CoCo group, \$10,000;
- [G27] *The NYS/UUP Campus Individual Development Award, Binghamton University*, December 2010, \$1,000;
- [G28] *The NYS/UUP Campus Individual Development Award, Binghamton University*, October 2008, \$1,000;

Equipment Donation

- [G29] *Xilinx Equipment Donation* to study “Hardware/Software Co-design for Secure Embedded Systems Extension”, July 2008, \$23,469.

TEACHING ACTIVITIES

Courses Taught

EECE 658 [†]	<i>Hardware-based Security</i>
EECE 657	<i>Network Security</i>
EECE 580E [‡]	<i>Contemporary Statistical Cybersecurity</i>
EECE 507	<i>Mathematics for Computer Engineering</i>
EECE 453/553	<i>Computer Network Architecture</i>
EECE 452/552	<i>Computer Design</i>
EECE 352	<i>Computer Architecture</i>

Current Student Advising

PhD Students: Mohsen Hatami, Mohd Khan, Deeraj Nagothu, Simeon Ogunbunmi, Nihal Poredi, Qian Qiu, Han Sun

[†] Designed, introduced, and taught by Professor Yu Chen.

[‡] Co-designed, introduced, and co-taught by Professor Yu Chen and Professor Aleksey Polunchenko (Math Dept.).

MS Students: Adilet Pazytkarim, Rutvika Santosh Sawant

BS Students: John Parker

Graduated Students

Ph.D. Dissertations:

- [PD 1] Ronghua Xu, Sp' 2023. "A Secure-by-Design Federated Microchain Fabric for Internet of Things (IoT) Systems"
(Graduate Student Excellence Award in Research, Binghamton Univ. 2023)
- [PD 2] Alem Fitwi, Fa'2021, "Privacy-Preserving Surveillance as an Edge Service"
(Outstanding Ph.D. Student Research Award, ECE Dept., 2022)
- [PD 3] Ning Chen, Fa'2021, "Smart Urban Traffic Monitoring as an Edge Service"
- [PD 4] Seyed Yahya Nikouei, Sp' 2020. "Smart Public Safety as an Edge Service: a Lightweight Video Processing and Online Decision Making Approach"
(Graduate Student Excellence Award in Research, Binghamton Univ. 2020)
- [PD 5] Zekun Yang, Fa' 2019. "Improve Smart Grid Reliability and Efficiency: a Data-Driven Edge Computing Approach"
- [PD 6] Qi Dong, Fa' 2018. "Primary User Emulation Attack Detection in Cognitive Radio Networks"
- [PD 7] Bingwei Liu, Fa' 2015. "Container Cloud: Application, Modeling and Simulation"
- [PD 8] Hao Chen, Sp' 2015. "A Hardware-based, Collaborative, Auto-Defensive Network Infrastructure"
(Outstanding Ph.D. Student Research Award, ECE Dept., 2013)
- [PD 9] Jun Feng, Fa' 2012. "Data Security Technologies for Robust Cloud Storage Services"
(Outstanding Ph.D. Student Research Award, ECE Dept., 2012)

Master's Thesis:

- [MS 1] Zhe Zhai, MSEE, May 2021.
"A Blockchain Integrated Time Banking System for Community Exchange Economy"
- [MS 2] Wei Quan, MSEE, May 2020.
"Critical Pixels Attacks on DNNs"
- [MS 3] Aoxin Ni, MSEE, May 2020.
"Human Objects Identification using Skeleton Joints based on 2D Images"
- [MS 4] Qian Qu, MSEE, May 2020.
"A Microservices Architecture based Edge Computing Platform: an Experimental Study"
- [MS 5] Xuan Zhao, MSEE, May 2019.
"Face Recognition in Low-Resolution Surveillance Video Streams"
- [MS 6] Hao Song, MSEE, August 2018.
"Using Multifactor Inputs BP Neural Network to Make Power Consumption Prediction"
- [MS 7] Ronghua Xu, MSEE, May 2018.
"Capability based Access Control Strategies to Deter DDoS Attacks Exploiting IoT Devices"
(Outstanding MS Student Researcher, ECE Dept., Spring 2018)
- [MS 8] Qi Dong, MSEE, May 2015.
"Energy Equilibrium for Sustainable Self-Powered Wireless Sensor Networks"
- [MS 9] Yinan Lin, MSEE, May 2015.

- “A Quantitative Workload Analysis Using Google Cluster Traces”
- [MS 10] Brendon Poland, MSEE, December 2014.
“Context Aware TCP for Enhanced Networking on Airborne Autonomous Platforms”
- [MS 11] Yang Huang, MSEE, December 2013.
“Application of Graphic Social Network in Ancient Chinese History Research”
- [MS 12] Brendan Kerrigan, MSEE, May 2012.
“A Study of Entropy Sources in Cloud Computers: Random Number Generation on Cloud Hosts”
- [MS 13] Rohan Golatkar, MSEE, December 2011.
“LAVI: A Location Aware Virtual Infrastructure for Vehicle Ad hoc Networks”
- [MS 14] Christopher Hui, MSEE, May 2011.
“An Optimal Design of Bloom Filters for Fast String Matching”
- [MS 15] Minda Xiang, MSEE, December 2010.
“Mitigating DDoS Attacks Using Protection Nodes in Mobile Ad hoc Networks”

PUBLICATIONS

Books

- [B1] D. Nagothu and **Y. Chen**, “Authenticating Video Feeds in Smart Edge Surveillance System using Electrical Frequency Estimation,” *SPIE Spotlight Series*, ISBN 978-1-80356-342-8, August 30, 2023.
- [B2] X. Xu, **Y. Chen**, and E. Blasch, “Lightweight Blockchain for the Internet of Things: Rationales and a Case Study,” *SPIE Spotlight Series*, ISBN 978-1-80356-342-8, August 30, 2023.

Book Chapter Contribution

- [B3] D. Nagothu, N. Poredi, and **Y. Chen**, “Evolution of Attacks on Intelligent Surveillance Systems and Effective Detection Techniques,” *Intelligent Video Surveillance – New Perspectives*, edited by P. L. Mazzeo, IntechOpen, ISBN 978-1-80356-342-8, 2022; <https://doi.org/10.5772/intechopen.105958>.
- [B4] R. Xu, D. Nagothu, and **Y. Chen**, “ECOM: Epoch Randomness-based Consensus Committee Configuration for IoT-Blockchains,” *Principles and Practice of Blockchains*, edited by K. Daimi, I. Dionysiou, and N. El Madhoun, Springer, ISBN 978-3-031-10506-7, October 07, 2022; https://doi.org/10.1007/978-3-031-10507-4_7.
- [B5] R. Xu, **Y. Chen**, and E. Blasch, “Microchain: a Light Hierarchical Consensus Protocol for IoT System,” *Blockchain Applications in IoT: Principles and Practices*, edited by T. Choudhury, A. Khanna, T. T. Toe, M. Khurana, and N. G. Nhu, EAI/Springer, ISBN 978-3-030-65690-4, e-ISBN 978-3-030-65691-1, July 2021; https://doi.org/10.1007/978-3-030-65691-1_9.
- [B6] D. Nagothu, S. Y. Nikouei, R. Xu, X. Zhao, and **Y. Chen**, “Smart Surveillance for Public Safety enabled by Edge Computing,” *Edge Computing: Models, Technologies and Applications*, edited by J. Taheri and S. Deng, The Institution of Engineering and Technology (IET), ISBN 978-1-785-61940-3, e-ISBN 978-1785619410, August 2020; https://doi.org/10.1049/pbpc033e_ch19.
- [B7] A. Fitwi, Z. Yang, **Y. Chen**, and X. Lin, “Smart Grids Enabled by Edge Computing,” *Edge Computing: Models, Technologies and Applications*, edited by J. Taheri and S. Deng, The Institution of Engineering and Technology (IET), ISBN 978-1-785-61940-3, e-ISBN 978-1785619410, August 2020; https://doi.org/10.1049/pbpc033e_ch18.
- [B8] R. Xu, **Y. Chen**, and E. Blasch, “Decentralized Security Solutions for IoT Leveraging the Blockchain and Smart Contract,” *Modeling and Design of Secure Internet of Things*, edited by C. Kamhoua, L. Njilla, A. Kott, and S. Shetty, Wiley-IEEE Press, ISBN 978-1-119-59336-2, June 2020;

<https://doi.org/10.1002/9781119593386.ch22>.

- [B9] S. Y. Nikouei, R. Xu, and **Y. Chen**, “Smart Surveillance Video Stream Processing at the Edge for Real-Time Human Objects Tracking,” *Fog and Edge Computing: Principles and Paradigms*, edited by R. Buyya and S. Srirama, Springer, Print ISBN 978-1119524984, Online ISBN: 978-1119525080, Electronic ISBN: 978-1119525066, 2018; <https://doi.org/10.1002/9781119525080.ch13>.
- [B10] N. Chen and **Y. Chen**, “Smart City Surveillance using Fog Computing in IoT Era: Opportunities and Challenges,” *Smart Cities: Development and Governance Frameworks*, edited by Z. Mahmood, Springer, ISBN 978-3-319-76668-3, 2018; https://doi.org/10.1007/978-3-319-76669-0_7.
- [B11] N. Chen, **Y. Chen**, X. Ye, H. Ling, S. Song, and C.-T. Huang, “Smart City Surveillance in Fog Computing,” *Advances in Mobile Cloud Computing and Big Data Under the 5G Era*, edited by C. X. Mavromoustakis, G. Mastorakis, and C. Dobre, Springer, Print ISBN 978-3-319-45143-5, Online ISBN 978-3-319-45145-9, Nov. 2016; https://doi.org/10.1007/978-3-319-45145-9_9.
- [B12] B. Liu and **Y. Chen**, “Auditing for Data Integrity and Reliability in Cloud Storage,” *Handbook on Data Centers*, edited by S. U. Khan and A. Zomaya, Springer, ISBN 978-1-4939-2091-4, 2015.
- [B13] E. Blasch, **Y. Chen**, G. Chen, D. Shen, and R. Kohler, “Information Fusion in a Cloud-Enabled Environment,” *High Performance Cloud Auditing and Applications*, edited by K.-S. Han, B.-Y. Choi, and S.-J. Song, Springer, ISBN 978-1-4614-3295-1, 2013.
- [B14] J. Feng, **Y. Chen**, D. Summerville, and K. Hwang, “Fair Multi-Party Non-Repudiation Framework for Storage Clouds, Part II,” *Cloud Computing for Enterprise Architectures*, edited by Z. Mahmood and R. Hill, in “Computer Communications and Networks” book series by Springer-Verlag, ISBN 978-1-4471-2236-4, 2012.
- [B15] J. Feng, **Y. Chen**, D. Summerville, and K. Hwang, “Fair Multi-Party Non-Repudiation Framework for Storage Clouds, Part I,” *Cloud Computing for Enterprise Architectures*, edited by Z. Mahmood and R. Hill, in “Computer Communications and Networks” book series by Springer-Verlag, ISBN 978-1-4471-2236-4, 2012.
- [B16] H. Chen and **Y. Chen**, “An Experimental Comparison of Collaborative Defense Strategies for Network Security,” *Pervasive Computing and Networking*, edited by I. Woungang, published by John Wiley & Sons Limited, UK, ISBN-10: 0-470-74772-2, ISBN-13: 978-0-470-74772-8, June 2011.
- [B17] **Y. Chen**, J. Feng, W.-S. Ku, P. Liu, and Z. Su, “Secure Distributed Data Storage in Cloud Computing,” *Cloud Computing*, edited by R. Buyya, J. Broberg, and A. Goscinski, published by Wiley, Inc. New York, USA, 2010. ISBN-10: 0470887990, ISBN-13: 978-0470887998.
- [B18] H. Chen, J. Feng, **Y. Chen**, and D. Summerville, “Securing Network Infrastructure using Reconfigurable Hardware Devices,” *Security Engineering Techniques and Solutions for Information Systems: Management and Implementations*, edited by N. Boudriga and M. Hamdi, published by Idea Group, Inc., ISBN 1615208038, 2010.
- [B19] **Y. Chen**, H. Chen, and W.-S. Ku, “Malicious Node Detection in Wireless Sensor Networks,” *Security in RFID and Sensor Networks*, edited by Josh Y. Zhang and Paris Kitsos, published by Auerbach Publications, Taylor & Francis Group, ISBN 1420068393, 2009.
- [B20] **Y. Chen** and W.-S. Ku, “Distributed Data Aggregation for Real-Time DDoS Attacks Detection,” *Encyclopedia of Data Warehousing and Mining*, 2nd Edition, edited by John Wang, published by Idea Group, Inc., ISBN 1591405572, 2008.

Journal/Magazine Publications

- [J1] R. Xu, S. Wei, **Y. Chen**, G. Chen, E. Blasch, and K. Pham, “LightMAN: A Lightweight Microchained Fabric for Assurance and Resilience Oriented Urban Air Mobility Networks,” *MDPI Drones*, December

- 2022, 6(12), 421, <https://doi.org/10.3390/drones6120421>.
- [J2] D. Nagothu, R. Xu, **Y. Chen**, E. Blasch, and A. Aved, “DeFakePro: Decentralized DeepFake Attacks Detection using ENF Authentication,” *the IEEE IT Professional*, Vol. 24, Issue 5, pp. 46 – 52, November 30, 2022; <https://doi.org/10.1109/MITP.2022.3172653>.
- [J3] R. Xu, **Y. Chen**, G. Chen, and E. Blasch, “SAUSA: Securing Access, Usage, and Storage of 3D Point Clouds Data by a Blockchain-based Authentication Network,” *MDPI Future Internet*, November 2022, 14(12), 354, <https://doi.org/10.3390/fi14120354>.
- [J4] L. Haghnegahdar, Y. Wang, and **Y. Chen**, “Enhancing Dynamic Energy Network Management using a Multiagent Cloud-Fog Structure,” *Renewable and Sustainable Energy Reviews*, Vol. 162, July 2022, 112439; <https://doi.org/10.1016/j.rser.2022.112439>.
- [J5] R. Xu and **Y. Chen**, “ μ DFL: A Secure Microchained Decentralized Federated Learning Fabric atop IoT Networks,” *the IEEE Trans. on Network and Service Management (TNSM), Special Issue on Recent Advances in the Design and Management of Reliable Communication Networks*, Vol. 19, Issue 3, pp. 2677 -2688. June 2022; <https://doi.org/10.1109/TNSM.2022.3179892>.
- [J6] D. Nagothu, N. Poredi, **Y. Chen**, E. Blasch, and A. Aved, “Deterring Deepfake Attacks with An Electrical Network Frequency Fingerprints Approach,” *MDPI Future Internet - Special Issue on 6G Wireless Channel Measurements and Models: Trends and Challenges*, April 2022, 14(5), 125; <https://doi.org/10.3390/fi14050125>.
- [J7] N. Chen and **Y. Chen**, “Anomalous Vehicle Recognition in Smart Urban Traffic Monitoring as an Edge Service,” *the MDPI Future Internet - Special Issue on Security of IoT-Enabled Infrastructures in Smart Cities and Critical Systems*, February 2022, 14(2), 54; <https://doi.org/10.3390/fi14020054>.
- [J8] A. Fitwi, **Y. Chen**, and S. Zhu, “Enforcing Privacy-Preservation on Edge Cameras using Lightweight Video Frame Scrambling,” *the IEEE Transactions on Services Computing*, December 2021; <http://doi.org/10.1109/TSC.2021.3135352>.
- [J9] Q. Qu, R. Xu, **Y. Chen**, E. Blasch, and A. Aved, “Fair Proof-of-Work (PoW) Consensus for IoT Blockchains Enabled by Miner Twins (MinT),” *MDPI Future Internet, Special Issue on Security and Privacy in Blockchains and the IoT*, November 2021; <https://doi.org/10.3390/fi13110291>.
- [J10] A. Fitwi, **Y. Chen**, and S. Zhu, “Lightweight Frame Scrambling Mechanisms for End-to-End Privacy in Edge Smart Surveillance,” *the IET Smart Cities, Special Issue on Smart Computing for Smart Cities*, 2021; <http://doi.org/10.1049/smc2.12019>.
- [J11] A. Fitwi, **Y. Chen**, H. Sun, and R. Harrod, “Estimating Interpersonal Distance and Crowd Density with a Single Edge Camera,” *the MDPI Computers*, October 2021, Vol. 10, No. 11, 143; <https://doi.org/10.3390/computers10110143>.
- [J12] R. Xu, D. Nagothu, and **Y. Chen**, “EconLedger: A Proof-of-ENF Consensus based Lightweight Distributed Ledger for IoVT Networks,” *MDPI Future Internet, Special Issue on Blockchain: Applications, Challenges, and Solutions*, September 2021, 13(10), 248; <https://doi.org/10.3390/fi13100248>.
- [J13] R. Xu, D. Nagothu, and **Y. Chen**, “Decentralized Video Input Authentication as an Edge Service for Smart Cities,” *the IEEE Consumer Electronics Magazine, Special Issue on Advances in Smart Cities*, February 2021, <https://doi.org/10.1109/MCE.2021.3062564>.
- [J14] X. Li and **Y. Chen**, “Lightweight 2D Imaging for Integrated Imaging and Communication Applications,” *the IEEE Signal Processing Letters*, February 2021; <https://doi.org/10.1109/LSP.2021.3061992>.
- [J15] D. Nagothu, **Y. Chen**, A. Aved, and E. Blasch, “Authenticating Video Feeds using Electric Network Frequency Estimation at the edge,” *the EAI Endorsed Transactions on Security and Safety*, February 2021, <https://dx.doi.org/10.4108/eai.4-2-2021.168648>.

- [J16] A. Fitwi, **Y. Chen**, S. Zhu, E. Blasch, and G. Chen, "Privacy-Preserving Surveillance as an Edge Service based on Lightweight Video Protection Schemes using Face De-Identification and Window Masking," *MDPI Electronics, Special Issue on 10th Anniversary of Electronics: Recent Advances in Computer Science & Engineering*, 2021, Vol. 10, No. 3, 236, <https://doi.org/10.3390/electronics10030236>.
- [J17] R. Xu, S. Y. Nikouei, D. Nagothu, A. Fitwi, and **Y. Chen**, "Blend-SPS: A BLockchain-ENabled Decentralized Smart Public Safety System," *MDPI Smart Cities*, September 2020, <https://doi.org/10.3390/smartcities3030047>.
- [J18] S. Y. Nikouei, **Y. Chen**, A. Aved, and E. Blasch, "I-ViSE: Interactive Video Surveillance as an Edge Service using Unsupervised Feature Queries," *the IEEE Internet of Things Journal, Special Issue on Artificial Intelligence Powered Edge Computing for Internet of Things*, 2020, <https://doi.org/10.1109/JIOT.2020.3016825>.
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- [C135] Y.-K. Kwok, R. Tripathi, **Y. Chen**, and K. Hwang, “HAWK: Halting Anomalies with Weighted Choking to Rescue Well-Behaved TCP Sessions from Shrew DoS Attacks,” *the 2005 International Conference on Computer Networks and Mobile Computing (ICCNMC’05)*, Zhangjiajie, China, Aug. 2-4, 2005.

- [C136] **Y. Chen**, Y.-K. Kwok, and K. Hwang, "MAFIC: Adaptive Packet Dropping for Cutting Malicious Flows to Push Back DDoS Attacks," *the 2nd International Workshop on Security in Distributed Computing Systems (SDCS'05), in conjunction with ICDCS 2005*, Columbus, OH, USA, June 6-10, 2005.
- [C137] K. Hwang, Y.-K. Kwok, S. Song, M. Cai, **Yu Chen**, R. Zhou, Ying Chen, and X. Lou, "GridSec: Trusted Grid Computing with Security Binding and Self-Defense against Network Worms and DDoS Attacks," in *Proceedings of International Workshop on Grid Computing Security and Resource Management (GSRM-2005)*, in conjunction with the ICCS-2005, Atlanta, GA, May 22-24, 2005.
- [C138] **Y. Chen**, Y. Wen, and P. Li, "Characterization of Concrete Stress by Measuring Dissipation Factors of Embedded Piezoelectric Ceramic Disc," in *Proc. SPIE 5765, Smart Structures and Materials 2005: Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems*, May 17, 2005.
- [C139] W. Yu, X. Zhong, Z. Wu, and **Y. Chen**, "Analysis of Dual-Frequency MEMS Antenna Using H-MRTD Method," *International Symposium on Optical Science and Technology, SPIE 49th Annual Meeting*, Denver, USA, August 2-6, 2004.
- [C140] Z. Wu, X. Zhong, W. Yu, and **Y. Chen**, "Simulation of Photonic Crystals Antenna Using ADI-FDTD Method," *International Symposium on Optical Science and Technology, SPIE 49th Annual Meeting*, Denver, USA, August 2-6, 2004.
- [C141] **Y. Chen**, X. Zhong, K. Li, and S. Xiao, "A MEMS CAD System Based on CORBA," *International Symposium on Smart Structures and Microsystems (IS³M 2000)*, Hong Kong, October 19-21, 2000.
- [C142] K. Li, X. Zhong, and **Y. Chen**, "Design for Micro Diffractive Lens for Imaging," *International Symposium on Smart Structures and Microsystems (IS³M 2000)*, Hong Kong, October 19-21, 2000.
- [C143] K. Li, X. Zhong, and **Y. Chen**, "Compensation Network for Multiple Intensity Modulated Optical Fiber Sensors," *the SPIE International Conference on Sensors and Control Techniques (ICSC 2000)*, Wuhan, China, May 2000.

Selected Other Publications

- [S1] A. A. Cardenas, **Y. Chen**, A. Fuchs, W. Van Ginkel, D. Hiestand, S. Jani, A. Lane, R. Lu, P. K. Manadhata, J. Molina, P. Murthy, A. Roy, S. Sathyadevan, P. S. Subrahmanyam, and N. Sundaresan, "Big Data Security and Privacy Handbook: 100 Best Practices in Big Data Security and Privacy," *Cloud Security Alliance (CSA)*, Aug. 2016, edited by D. Mashima and S. P. Rajan, <https://cloudsecurityalliance.org/download/big-data-security-and-privacy-handbook/>.
- [S2] A. Bardhan, **Y. Chen**, A. Fuchs, A. Kapre, A. Lane, R. Lu, P. Manadhata, J. Molina, A. C. Mora, P. Murthy, A. Roy, S. Sathyadevan, and N. Shah, "Top Ten Big Data Security and Privacy Challenges," *Cloud Security Alliance (CSA) Annual Congress 2012*, Orlando, FL, USA, Nov. 7, 2012, organized by S. P. Rajan, W. van Ginkel, and N. Sundaresan, available at <https://cloudsecurityalliance.org/download/expanded-top-ten-big-data-security-and-privacy-challenges/>.
- [S3] **Y. Chen**, X. Zhong, and K. Li, "A Distributed MEMS CAD Based on 3-Tier Structure", *Micro-Nanometer Science & Technology (in Chinese)*, Vol. 5, No.1, 2000, pp78-81.
- [S4] **Y. Chen**, C. Wang, and Q. Ye, "Implementation of Three-Tier Structure In A Distributed MEMS CAD System", *Journal of Chongqing University of Post and Telecommunication (in Chinese)*, No.3, September, 2000, pp1-5.
- [S5] **Y. Chen**, X. Zhong, and K. Li, "Research Achievement of MEMS CAD", *Optics and Precision Engineering (in Chinese)*, Vol.17, No.6, 1999, pp1-5.
- [S6] **Y. Chen**, X. Zhong, D. Xu, K. Li, and S. Xiao, "Micromechanical Array Filter", *Chinese Journal of Scientific Instrument (in Chinese)*, Vol.20, No.4, 1999, pp200-203.

- [S7] K. Li, X. Zhong, and **Y. Chen**, “Status of Microsystem Technology in Blood Cell Detection and its Perspective”, *Chinese Journal of Scientific Instrument (in Chinese)*, Vol.20, No.4, 1999, pp176-179.
- [S8] S. Xiao, X. Zhong, **Y. Chen**, and X. Miu, “Study on an Image Measurement for Irregular Rotary Objects”, *Optics and Precision Engineering (in Chinese)*, Vol.15, No.4, 1997, pp99-103.
- [S9] L. Li, X. Zhong, and **Y. Chen**, “Non-Contact Detection Techniques of 3D Curve Profile”, *Practical Measurement Technology (in Chinese)*, No.1, 1996, pp22-24;
- [S10] G. Liu, X. Zhong, K. Li, and **Y. Chen**, “Characteristic Study of Light Intensity Modulation Methods for Fiberoptic Vibration Sensor with Cantilever”, *Journal of Transducer Technology (in Chinese)*, No.3, 1995, pp20-23.

Invited Talks/Panels

- [T1] “Detecting Malicious false frame injection attacks on surveillance systems at the edge using electrical network frequency signals,” Keynote Speaker, *the 3rd International Caparica Conference in Translational Forensics (Forensics 2022)*, Caparica, Portugal, Nov. 14-16, 2022.
- [T2] “Privacy Preserving Decentralized Smart Public Safety Surveillance,” *the Information Institute (II) Summer Tech Talks Series*, Rome, NY, July 14, 2022.
- [T3] “Authenticating Video Feeds using Electrical Network Frequency Estimation at the Edge,” *the joint webinar series with SRM Institute of Science and Technology*, Binghamton, May 5, 2022.
- [T4] “Invited Panel on Heterogeneous Data Fusion Learning for Enhanced Xabilities Analysis,” *the Signal Processing, Sensor/Information Fusion, and Target Recognition XXXI conference*, the SPIE Defense + Commercial Sensing, Orlando, Florida, April 3 – 7, 2022.
- [T5] “Microchained IoT Fabric for Secure-by-Design Edge Computing Environment,” *The 2nd Workshop on Blockchain-enabled Networked Sensor Systems (BlockSys 2019)*, Columbia University, New York, Nov. 10, 2019
- [T6] “Cloud and Edge Technology for IoT,” *Intelligent-Integrated IOT (I3) Conference and Workshop*, Los Angeles, CA, Jan. 04, 2019.
- [T7] “iSENSE: Intelligent Surveillance as an Edge Network Service,” *Intelligent Fusion Technologies, Inc*, Germantown, MY, Dec. 08, 2017.
- [T8] “Quickest Online Distributed Disturbance Allocation for Large Scale Power Grid,” *Clarkson University*, Potsdam, NY, Nov. 11, 2015.
- [T9] “Mission-Critical Urban Surveillance: the Way is in Fog, not in Cloud,” *Auburn University*, Auburn, AL, Nov. 09, 2015.
- [T10] “Real-Time WAMI/FMV/Text Information Fusion using a Container-based Virtualization Elastic Cloud,” *the 2014 AFRL CyberBAT/VFRP Technical Exchange Meeting (TEM)*, Rome, NY, July 14, 2014.
- [T11] “An Optimized Design of Reconfigurable PSD Accelerator for Online Shrew DDoS Attacks Detection,” *Chongqing University*, China, June 24, 2014.
- [T12] “Information Fusion in Cloud Computing Era: A Systems-Level Perspective,” *the AFRL/RIEA Alford Lecture Series Opportunities (ALSO)*, Rome, NY, July 25, 2013.
- [T13] “A Remote Trustworthy Attestation Scheme for Mobile Cloud Auditing Data Distribution,” *the 2013 AFRL CyberBAT/VFRP Technical Interchanging Meeting (TIM)*, Rome, NY, July 15-18, 2013.
- [T14] “In Introduction to Moving-Target Defense for Cloud Systems,” *the CoCo Seminar Series*, Binghamton University, November 7, 2012.
- [T15] "A Fair Non-Repudiation Framework for Data Integrity in Cloud Storage Services," *the AFCEA Cyber and*

Information Challenges Conference, Marcy, NY, USA., June 12-14, 2012.

- [T16] "A Fair Non-Repudiation Framework for Cloud Storage," *the 11th Emerging Information and Technology Conference* (EITC 2011), Chicago, Illinois, USA., July 28-29, 2011.
- [T17] "Analysis of Integrity Vulnerabilities and a Non-repudiation Framework for Storage Cloud," Temple University, Philadelphia, PA., August 2010.
- [T18] Regional Symposium on Graduate Education and Research in Information Security (GERIS'09), Binghamton, NY, October 2009.
- [T19] SUNY-Binghamton CoCo Technical Seminar, March 2009.

PATENTS

- [PI] U. S. Patent Application Serial No. 63/158,806, submitted March 9, 2021; title: *Interactive Video Surveillance as an Edge Service using Unsupervised Feature Queries*; co-inventor: Dr. Seyed Yahya Nikouei.
- [PII] U. S. Patent No. US 8,862,900; issued Oct. 14, 2014; title: *Secure Distributed Storage System and Method*; co-inventor: Dr. Jun Feng.
- [PIII] U. S. Patent No. US 8,595,606; issued Nov. 12, 2013; title: *Extended Row Diagonal Parity with Optimal Decoding Procedure*; co-inventor: Dr. Jun Feng.
- [PIV] U. S. Patent No. US 8,522,125; issued Aug. 27, 2013; title: *System and method for efficient horizontal maximum distance separable RAID*; co-inventor: Dr. Jun Feng.

PROFESSIONAL ACTIVITIES

Off-Campus Services

- Secretary, IEEE Binghamton Chapter, 2021 ~
- Member, IEEE ICT Emissions Working Group, 2021 ~
- Chair, IEEE Communication Society, Binghamton Chapter, 2020 ~.
- 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.

On Campus Services

- Chair, CoE Faculty Recruiting Committee, ECE Department, 2016 ~ 2021.
- The Library Committee, Watson School of Engineering, Fall 2008 ~ Spring 2012.
- The Graduate Study Committee, Dept. of ECE, Since Fall 2008.

Journal Editorial Board Memberships:

- [E1] Associate Editor, the International Journal of Intelligent Information Processing (IJIP)
- [E2] Associate Editor, Wireless Communications and Mobile Computing
- [E3] Associate Editorial, the FTRA Journal of Convergence (JoC), 2013 ~
- [E4] Editorial Board, Discover Internet of Things, 2022 ~
- [E5] Editorial Board, Cybersecurity and Privacy of Frontiers in Big Data, 2018 ~
- [E6] Editorial Board, Wireless Communications and Mobile Computing, 2018 ~

- [E7] Editorial Board, the Journal of Platform Technology (JPT), 2013 ~
- [E8] Editorial Board, the Journal of Multimedia Information Systems, 2013 ~
- [E9] Editorial Board, the International Journal of Computer Networks (IJCN)
- [E10] Editorial Board, the FTRA Journal of Convergence (JoC), 2012
- [E11] Guest Editor, MDPI Future Internet, Special Issue on Cloud/Edge/Fog Computing for Network and IoT, 2023
- [E12] Guest Editor, MDPI Computers, Special Issue on BLockchain Enabled Sustainable Smart Cities, 2022
- [E13] Guest Editor, MDPI Sensors, Special Issue on Security and Privacy in Mobile Sensor Networks, 2022
- [E14] Guest Editor, EURASIP Journal on Image and Video Processing, Special Issue Real-time Image and Video Processing in Embedded Systems for Smart Surveillance Applications, 2021
- [E15] Guest Editor, Electronics, Special Issue on New Challenges on Cyber Treat Intelligence, 2021
- [E16] Guest Editor, Future Generation Computer Systems, Special Issue on Social Internet of Things: Applications, Architectures and Protocols, 2018
- [E17] Guest Editor, Multimedia Tools and Applications, Special Issue on Intelligent Wireless Multimedia Surveillance Networks: Research Trends, Solutions, and Challenge, 2017
- [E18] Guest Editor, the International Journal of New Review of Hypermedia and Multimedia, Special Issue on Human-centric Information Technology and Application toward Web 3.0, 2015.
- [E19] Editorial Board Member, the International Journal of Adaptive and Innovative Systems (IJ AIS), 2011 ~ 2012.
- [E20] Guest Editor, the International Journal of Cloud Computing, Special Issue on Information Assurance and System Security in Cloud Computing, 2012.
- [E21] Guest Editor, Peer-to-Peer Networking and Applications, Special Issue on Cloud, Grid, P2P and Internet Computing, 2012.
- [E22] Guest Editor, Special Issue in Information Journal, 2012.
- [E23] Guest Editor, Peer-to-Peer Networking and Applications, Special Issue on New Technologies and Research Trends in Ubiquitous Sensor Network and P2P Social Network Services, 2012.
- [E24] Guest Editorial Board Member, Journal of Universal Computer Science, Special Issue on Data Security and Privacy Protection in Pervasive Computing Environments, 2008

Conference/Workshop Organizer:

- [O1] TPC Chair, International Conference on Security and Privacy in Cyber-Physical Systems and Smart Vehicles (SmartSP 2023)
- [O2] Founder and Co-Chair, The International Workshop on BLockchain Enabled Sustainable Smart Cities (BLESS 2018, 2019, 2020, 2021, 2022, 2023)
- [O3] Co-Chair, Special Session: Hold the Truth Ground Against the Misinformation/Disinformation Era (HoTGAME 2023), under the Conference Disruptive Technologies in Information Sciences VI
- [O4] Co-Chair, The 1st International Workshop on Lightweight Blockchain for Edge Intelligence and Security (LightChain 2019)
- [O5] The 4th IEEE International Smart Cities Conference (ISC2 2018)
- [O6] The 7th IEEE International Symposium on Cloud and Service Computing (IEEE SC2 2017)

- [O7] The ACM Conference on Computer and Communications Security (CCS 2015).
- [O8] The 2015 Global Conference on Information Technology, Computing, and Applications (GlobalIT 2015), Las Vegas, USA, January 12 – 14, 2015.
- [O9] The 2nd International Workshop on Advanced Technologies of Cloud Computing (WATCC'2014), Minneapolis, MN, USA, September 9-12, 2014.
- [O10] The 2013 International Workshop on Cloud Enhanced Information Fusion (CloudFusion'2013), Gwangju, Korea, September 4-6, 2013.
- [O11] The International Workshop on Advanced Technologies of Cloud Computing (WATCC'2013), Lyon, France, October 04, 2013.
- [O12] The 8th FTRA International Conference on Future Information Technology (FutureTech 2013), Gwangju, Korea, September 4-6, 2013.
- [O13] The 4th International Workshop on Security in Cloud Computing (CloudSec'2012), Pittsburgh, PA. USA, September 12, 2012.
- [O14] The 9th IFIP International Conference on Network and Parallel Computing (NPC 2012), Gwangju, Korea, Sept. 6-8, 2012.
- [O15] The 2012 FTRA International Conference on Mobile, Ubiquitous and Intelligent Computing (MUSIC 2012), Vancouver, Canada, June 26 – 28, 2012.
- [O16] The 3rd International Workshop on Security in Cloud Computing (CloudSec'2011), Taipei, Taiwan, September, 2011.
- [O17] The 2nd International Workshop on Security in Cloud Computing (SCC'2010), San Diego, California, USA, Sept. 2010.
- [O18] The 2009 International Workshop on Security in Cloud Computing (SCC'09), Chengdu, China, Dec. 2009.
- [O19] The 2009 International Workshop on Secure Multimedia Communication and Services (SECMCS'09), Wuhan, China, Nov. 2009.
- [O20] The 2009 International Conference on Multimedia Information NETworking and Security (MINES 2009), Wuhan, China, Nov. 2009.
- [O21] ChinaCom'08 Workshop on MULTimedia Security In Communications (MUSIC'08), Hangzhou, China, Aug. 2008.

Conference Chairs:

- [H1] TPC Co-Chair, EAI SmartSP 2023
- [H2] TPC Co-Chair, ACM BlockSys 2022
- [H3] Co-Chair, BLESS 2018, 2019, 2020, 2021, 2022, 2023
- [H4] Track Co-Chair, IoT and Smart X Services Track, IEEE ISC2 2021
- [H5] Track Co-Chair, Multimedia and Real-Time Networking (MRN) Track, IEEE ICCCN 2020
- [H6] Co-Chair, LightChain 2019
- [H7] Workshop Co-Chair, KC ISC2 2018
- [H8] Program Co-Chair, FutureTech 2016
- [H9] Track Co-Chair, ICA3PP 2015
- [H10] Program Co-Chair, CSA-14
- [H11] Publicity Co-Chair, FutureTech 2014

- [H12] Program Vice Co-Chair, IEEE/IFIP EUC 2013, Reconfigurable Computing Systems and Applications Track
- [H13] General Co-Chair, CloudFusion'2013
- [H14] General Co-Chair, WATCC-2013
- [H15] Workshop Co-Chair, FutureTech-2013
- [H16] Program Co-Chair, WTA'2012
- [H17] TPC Chair, CloudSec'2012.
- [H18] Program Co-Chair, NPC-2012
- [H19] Program Chair, MUSIC 2012
- [H20] TPC Chair, CloudSec'2011.
- [H21] Publicity Chair, F2GC 2010, F2GC 2011.
- [H22] TPC Chair, SCC'2010.
- [H23] Symposium Co-Chair, IEEE WCNIS2010 "Communication and Information Security Symposium".
- [H24] Publicity Chair, MINES'2010.
- [H25] General Chair, SCC'09.
- [H26] Publicity Chair, SECMCS'09.
- [H27] Publicity Chair, MINES'09.
- [H28] TPC Chair, MUSIC'08.

Conference Technical Program Committee (TPC):

- [M1] IEEE INFOCOM 2016 ~ 2023.
- [M2] IEEE International Conference on Communications (ICC)
 - Communication and Information Systems Security Symposium (CISS, 2009 ~ 2016)
 - Communications Software, Services, and Multimedia Application Symposium (CSSMA 2018 ~ 2023)
 - Mobile and Wireless Networks Symposium (MWN, 2014 ~ 2020, 2023)
 - Wireless Networks Symposium (WN, 2008 ~ 2013)
 - Ad-hoc and Sensor Networking Symposium (AHSN, 2012 ~ 2017)
- [M3] IEEE Global Communications Conference (GLOBECOM)
 - IoT and Sensor Networks Symposium (IoTSN, 2021-2022)
 - Ad-hoc and Sensor Networking Symposium (AHSN, 2010 ~ 2020)
 - Communication & Information System Security Symposium (CISS, 2008 ~ 2022)
 - Communications Software, Services, and Multimedia Apps (CSSMA 2016 ~ 2022)
 - Wireless Networking Symposium (WN, 2011 ~ 2020)
 - Cognitive Radio and Network Symposium (CogRN 2013, 2014)
- [M4] The IEEE International Conference on Edge Computing (IEEE EDGE 2021, 2022, 2023)
- [M5] The 13th International Conference on Cloud Computing and Services Science (CLOSER 2023)
- [M6] InfoSymbiotics/Dynamic Data Driven Applications Systems (DDDAS2022)
- [M7] The IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2010 ~ 2023)
- [M8] The 11th International Workshop on Security, Privacy, Trust, and Machine Learning for IoT (IoTSPT-ML 2021)
- [M9] The International Workshop on Smart City Communication and Networking (SmartCityCom 2019, 2020,

2021, 2022)

- [M10] The 2023 International Congress on Communications, Networking, and Information Systems (CNIS 2023)
- [M11] The 2019 IEEE International Conference on Blockchain (Blockchain-2019)
- [M12] The First International Workshop on Blockchain Meets Computer Vision & AI, in conjunction with CVPR 2019
- [M13] The IEEE International Smart Cities Conference (ISC2 2018, 2019)
- [M14] The 8th IEEE International Conference on Cloud Networking (CloudNet) (2019)
- [M15] The 18th IEEE International Conference on Communication Technology (IEEE ICCT 2018)
- [M16] The 2018 Symposium on Foundations and Applications of Blockchain (FAB'18)
- [M17] The IFIP International Conference on New Technologies, Mobility and Security (NTMS, 2008 ~ 2019)
- [M18] The 6th International Workshop on Mobile Applications 2019 (MobiApps 2019)
- [M19] The EAI International Conference on Security and Privacy in Communication Networks (SecureComm 2017, 2018, 2019)
- [M20] The International Conference on Digital Image and Signal Processing (DISP'19)
- [M21] The 9th International Conference on Complex Systems (ICCS 2018)
- [M22] The International Workshop on Distributed Ledger of Things (DLot 2018, 2019)
- [M23] Wireless Days 2019, Track 6: IoT and Smart X: Networking, Cloudification and Services
- [M24] The 7th IEEE International Symposium on Cloud and Service Computing (IEEE SC2 2017)
- [M25] The IEEE International Conference on Big Data and Cloud Computing (IEEE BDCloud 2014 ~ 2016)
- [M26] IEEE INFOCOM Workshop on Mobile Cloud Computing, 2014, 2015
- [M27] IEEE INFOCOM Workshop on Integrating Edge Computing, Caching, and Offloading in Next Generation Networks (IECCO 2017, 2018, 2019)
- [M28] The IEEE International Performance Computing and Communications Conference (IPCCC 2015, 2016, 2017)
- [M29] The 14th International Symposium on Pervasive Systems, Algorithms, and Networks (I-SPAN 2017)
- [M30] The 2017 International Conference on Wireless Communications & Signal Processing, Ad Hoc and Sensor Networking Symposium, Wireless Networking Symposium (WCSP 2017 – AHSN, WNS)
- [M31] The SPIE Defense & Security, Sensors and Systems for Space Applications X, 2017, 2018
- [M32] The First Northeast Regional Conference on Complex Systems (NERCCS 2018)
- [M33] The Twelfth International Conference on Wireless and Mobile Communications (ICWMC 2016)
- [M34] The International Conference on Computing, Networking and Communications
 - Cloud Computing and Networking Symposium (CLD 2012)
 - Communications and Information Security Symposium (CIS 2012)
- [M35] The 10th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (IEEE MASS 2013)
- [M36] The IEEE International Conference on Advanced Information Networking and Applications (AINA-2012, 2013), Track 10 (Multimedia and Social Networking)
- [M37] The IEEE Asia Pacific Cloud Computing Congress 2012 (AP-Cloud)
- [M38] The 11th International Wireless Communications & Mobile Computing Conference (IWCMC 2015), Wireless Networking Symposium
- [M39] The 2014 International Conference on Internet of Vehicles (IOV 2014)
- [M40] The International Conference on Risks and Security of Internet and Systems (CrisIS 2014 ~ 2017)
- [M41] The IEEE International Conference on Computer Communication Networks (ICCCN)

- Track on Multimedia and Real-Time Networking (MRN): 2014, 2016
 - Track on Security, Privacy and Trust (SPT): 2013, 2015
- [M42] The ACM/SIGSIM/SCS Annual Simulation Symposium (ANSS, 2009 ~ 2012)
- [M43] IEEE International Wireless Communications and Mobile Computing Conference
- Computer and Network Security Symposium (CNS), 2008
 - Wireless Network Symposium (WNS), 2014
- [M44] The IEEE/IFIP International Symposium on Trusted Computing and Communications (TrustCom 2009 ~ 2015)
- [M45] The IEEE International Conference on High Performance Computing and Communications (HPCC'2010, 2014)
- [M46] The IEEE Consumer Communications and Networking Conference (CCNC 2008, 2009, 2010, 2011, 2012)
- [M47] The Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2011, 2012)
- [M48] The IEEE International Workshop on Cloud Security Auditing (CSAW 2013, 2014)
- [M49] IEEE Wireless Communications & Networking Conference (WCNC 06, 07, 08, 14, 15)
- [M50] The ACM/IEEE/IFAC/TRB International Conference on Connected Vehicles (ICCVE 2012, 2013, 2014, 2015)
- [M51] The International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2016, 2017)
- [M52] The IEEE 8th International Symposium on Embedded Multicore/Many-core System-on-Chip (MCSoc-14)
- [M53] The 2014 International Conference on Platform Technology and Service (PlatCon 14)
- [M54] The International Conference on Selected Topics in Mobile & Wireless Networking (iCOST, 2011, 2012)
- [M55] The First IEEE International Conference on Communications in China: Communications QoS and Reliability (ICCC'12 - CQR)
- [M56] International Conference on Cloud and Green Computing (CGC 2011, 2012)
- [M57] The International workshop on Data Center Performance (DCPerf 2011 ~ 2013)
- [M58] The 1st International Workshop on Enterprise Cloud Computing: Solutions and Strategies (ECCSS 2012)
- [M59] The International Conference on Security in Computer Networks and Distributed Systems (SNDS-2012)
- [M60] The IEEE International Workshop on Wireless and Sensor Network Security (WSNS, 2008 ~ 2011)
- [M61] The 2012 International Workshop on Mobile Cloud and Ubiquitous Computing (Mobi-Cloud 2012)
- [M62] The IEEE International Conference on Utility and Cloud Computing (UCC 2010, 2011)
- [M63] The 3rd IEEE International Symposium on UbiSafe Computing (UbiSafe 2011)
- [M64] The International Conference on Computing, Networking and Communications, (ICNC – ISA 2013, 2014, 2015, MCC 2015, MCC 2018).
- [M65] The FTRA International Symposium on Advances in Cryptography, Security and Applications for Future Computing (ACSA 2009 ~ 2012)
- [M66] The 2012 International Conference on Wireless Communications & Signal Processing, Wireless Networking Symposium (WCSP 2012 - WNS)
- [M67] The First IEEE International Conference on Communications in China: Wireless Networking and Applications (ICCC'12 - WNA)
- [M68] The International Conference on Frontier of Computer Science and technology (FCST 2009, 2011, 2012)
- [M69] The IEEE Workshop on Grid and P2P Systems and Applications (ICCCN GridPeer 2009, 2010, 2011)
- [M70] The International Workshop on Sustainable High Performance Cloud Computing (SHPCC 2011,

SHPCloud-2012)

- [M71] The Annual International Conference on Mobile Communications, Networking and Applications 2011 (MobiCONA 2011)
- [M72] The 9th ACS/IEEE International Conference on Computer Systems and Applications (ICCSA 2011)
- [M73] The 14th IEEE International Conference on Computational Science (CSE 2011)
- [M74] The International Conference on Communications and Mobile Computing (CMC 2009, 2010, 2011)
- [M75] The 2011 International Conference on Cloud and Service Computing (CSC 2011)
- [M76] The International Workshop on Secure Multimedia Communication and Services (SECMCS 2009, 2010, 2011)
- [M77] The 2011 International Workshop on Computing and Communications (CC-11)
- [M78] The International Conference and workshop on Current Trends in Information Technology (CTIT 2009, 2011)
- [M79] the 6th International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP 2010)
- [M80] The 4th International Workshop on Localized Algorithms and Protocols for Wireless Sensor Networks (LOCALGOS 2010)
- [M81] CHINACOM Wireless Communications and Networking Symposium (CHINACOM WCN 2009, 2010)
- [M82] The European Conference on Wireless Sensor Networks (EWSN 2007, 2010)
- [M83] The 2nd IEEE International Workshop on Information and Data Assurance (WIDA'09)
- [M84] The IEEE International Workshop on Security and Privacy in Wireless and Mobile Computing, Networking and Communications (SecPri_WiMob 2008, 2009)
- [M85] IEEE Workshop on Web Privacy and Trust (held with IEEE/WIC/ACM International Conference on Web Intelligence, 2009)
- [M86] The 4th International Symposium on Information Security (OTM IS 2009)
- [M87] The Workshop on Advanced Wireless Broadband Networks (AWBN'09), held in conjunction with MobiQuitous'09.
- [M88] The International Conference on Security and Cryptography (SECRYPT 2009)
- [M89] The 3rd International Workshop on Privacy-Aware Location-based Mobile Services (PALMS'09)
- [M90] The 2009 SCS Symposium on Simulation of System Security (SSSS'09)
- [M91] The 1st International Conference on Network and Service Security (N2S 2009)
- [M92] Workshop on Radio Resource Management in Wireless Mesh Networks 2008 (RRMinMesh'08)
- [M93] The 14th Asia-Pacific Conference on Communications, 2008 (APCC'08)
- [M94] Book chapter review: Encyclopedia of Data Warehousing and Mining, 2nd Ed., (2007)
- [M95] European Conference on Complex Systems 2009 (ECCS'09)
- [M96] IEEE 28th International Conference on Distributed Computing Systems, 2008 (ICDCS'08)
- [M97] IEEE 14th International Symposium on High-Performance Computer Architecture, 2008 (HPCA'08)

Regular Invited Reviewer:

- [R1] ACM Transactions on Internet Technology
- [R2] ACM Transactions on Sensor Networks
- [R3] ACM/Springer Wireless Network Journal (WINET)
- [R4] IEEE Access

- [R5] IEEE Communications Letters
- [R6] IEEE Consumer Electronics Magazine
- [R7] IEEE Internet of Things Journal
- [R8] IEEE Transactions on Computers
- [R9] IEEE Transactions on Information Forensics and Security
- [R10] IEEE Transactions on Mobile Computing
- [R11] IEEE Transactions on Network and Service Management
- [R12] IEEE Transactions on Parallel and Distributed Systems
- [R13] IEEE Transactions on Wireless Communications
- [R14] IEEE Wireless Communications Magazine
- [R15] International Journal of Parallel and Distributed Computing, Elsevier
- [R16] International Journal of Network and Computer Applications, Elsevier
- [R17] International Journal of Applied Soft Computing, Elsevier
- [R18] International Journal of Computer Communications, Elsevier
- [R19] International Journal of Grid Computing: Theory, Methods and Applications, Elsevier
- [R20] International Journal of Pervasive and Mobile Computing, Elsevier
- [R21] International Journal of Ad Hoc Networks, Elsevier
- [R22] International Journal of Future Generation Computer Systems, Elsevier
- [R23] International Journal of Computers & Electrical Engineering, Elsevier
- [R24] International Journal of Information Security, Springer
- [R25] International Journal of Wireless Communications and Mobile Computing, Wiley
- [R26] International Journal of Security and Communication Networks, Wiley.
- [R27] International Journal of Software: Practice and Experience.
- [R28] International Journal of Information and Computer Security.
- [R29] International Journal of Information, Intelligence and Knowledge
- [R30] International Journal of Open Problems in Computer Science and Mathematics
- [R31] International Journal of Universal Computer Science
- [R32] EURASIP Journal on Advances in Signal Processing
- [R33] EURASIP Journal on Information Security
- [R34] Electronics and Telecommunications Research Institute Journal (ETRI)
- [R35] Scientific Journals International (SJI)