

# Curriculum Vitae, Yu Chen

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## Yu Chen, Ph.D., Associate Professor

Director, Ubiquitous Smart & Sustainable Computing (US<sup>2</sup>C) Lab  
Associate Director, Center for Information Assurance and Cybersecurity  
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## 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 focuses on 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 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 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

- **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.
- **Graduate Research Assistant**, May 2001 – Dec. 2006, Department of Electrical Engineering – Systems, University of Southern California (USC), Los Angeles, California, USA.
- **Graduate Teaching Assistant**, Spring 2005, Course: “EE450: Introduction to Computer Networks,” Department of Electrical Engineering - Systems, 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 – 2021, U.S. Air Force Research Laboratory, Summer Faculty Fellowship Program, Visiting Faculty Research Program (AFRL/SFFP & VFRP).
- *Member - Graduate Council* (Student Affairs/Budget Advisory Committee), Aug. 2017 – Jul. 2020, Binghamton University, State University of New York, USA.
- *Graduate Program Director*, Aug. 2013 – May 2018, Department of Electrical and Computer Engineering, Binghamton University, State University of New York, USA.

## HONORS & AWARDS

- Best Paper Award, IEEE CIC 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 (Total Awarded \$4.6M, of which \$1.5M to Chen)

### Pending Proposals

- [PG1] **PI**, *NSF*, “SaTC: CORE: Small: DyFENSE: Secure Dynamic FEderated Network Slicing at the Edge,” with Co-PI Dr. Xiaohua (Edward) Li, May 15, 2022 – May 14, 2025, \$500,000;
- [PG2] **Co-PI**, *DoD/AFRL Virtual Institutes for Cyber and Electromagnetic Spectrum Research and Employ (VICEROY)*, “CybER: Northeast Institute of Research and Training in Cyber and Electromagnetic Spectrum,” with Lead PI Dr. Douglas Summerville, Technical PI Dr. Ping Yang, Co-PI Dr. Guanhua Yan, Feb. 01, 2022 – Jan. 31, 2025, \$849,998;
- [PG3] **Co-PI**, *NSF*, “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, March 01, 2022 – February 28, 2027, \$2,482,696;
- [PG4] **Co-PI**, *NSF*, “RINGS: Development of Intelligent Reliability Control Technology (Direct) for the Hyper-connected/Multi-dimensional Future Communication Infrastructure,” with PI Dr. Sejun Song (UMKC), Co-PI Dr. Baek-Young Choi (UMKC), Feb. 01, 2022 – Jan. 31, 2025, \$1M (BU’s Share \$350K);

### External Awards

- [G1] **PI**, *NSF*, *CNS-2141468*, “EAGER: SaTC: CORE: Small: Decentralized Data Assurance by Fair Proof of Work Consensus Federated Ledgers,” October 01, 2021 – September 30, 2022, \$100,000;
- [G2] **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;

- [G3] **PI**, *Technergetics, LLC*, “Drones, Phones, and Cones: The IoT Sensing Grid,” March 01, 2021 – May 31, 2021, \$77,000;
- [G4] **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, 2022, \$257,049;
- [G5] **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, 2022, with Co-PI Dr. Xiaohua (Edward) Li, \$295,282;
- [G6] **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;
- [G7] **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);
- [G8] **PI**, *US Air Force Research Lab (AFRL)*, “Dynamic, Intelligent Urban Surveillance using Fog Computing,” July 1, 2016– June 30, 2017, \$22,000;
- [G9] **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;
- [G10] **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;
- [G11] **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;
- [G12] **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;
- [G13] **PI**, *Intelligent Fusion Technology, Inc.*, “Design and Development of Cloud Computing based Service for Robots Applications,” October 29, 2012 – August 29, 2013, \$30,000;
- [G14] **PI**, *NSF CNS program*, “CRI-IAD: Infrastructure Acquisition and Development for Computer Architecture Research and Education,” May 4, 2011 – September 30, 2012, \$52, 000;
- [G15] **Co-PI**, *AFOSR*, “Detection of Covertly Embedded Hardware in Digital Systems,” April 1, 2010 – February 28, 2014, with PI Dr. Douglas Summerville, \$449, 931;
- [G16] **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**

- [G17] **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;
- [G18] **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;

- [G19] **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;
- [G20] **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;
- [G21] **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;
- [G22] **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;
- [G23] **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;
- [G24] **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;
- [G25] *The NYS/UUP Campus Individual Development Award, Binghamton University*, December 2010, \$1,000;
- [G26] *The NYS/UUP Campus Individual Development Award, Binghamton University*, October 2008, \$1,000;

### **Equipment Donation**

- [G27] *Xilinx Equipment Donation* to study “Hardware/Software Co-design for Secure Embedded Systems Extension”, July 2008, \$23,469.

## **TEACHING ACTIVITIES**

### **Courses Taught**

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

### **Current Student Advising**

**PhD Students:** Mohd Khan, Hozefa Lakadawala, Deeraj Nagothu, Nihal Poredi, Qian Qiu, Han Sun, Ronghua

<sup>†</sup> Designed, introduced, and taught by Professor Yu Chen.

<sup>‡</sup> Co-designed, introduced, and co-taught by Professor Yu Chen and Professor Aleksey Polunchenko (Math Dept.).

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**MS Students:** Adrian Kulesza

**BS Students:** John Parker, Amanda Tong

***Graduated Students***

**Ph.D. Dissertations:**

- [PD 1] Alem Fitwi, Fa'2021, "Privacy-Preserving Surveillance as an Edge Service"
- [PD 2] 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 – Research, Binghamton Univ. 19-20**)
- [PD 3] Zekun Yang, Fa' 2019. "Improve Smart Grid Reliability and Efficiency: a Data-Driven Edge Computing Approach"
- [PD 4] Qi Dong, Fa' 2018. "Primary User Emulation Attack Detection in Cognitive Radio Networks" (**Outstanding PhD Teaching Assistant Award, Binghamton Univ., 2019**)
- [PD 5] Bingwei Liu, Fa' 2015. "Container Cloud: Application, Modeling and Simulation" (**Outstanding PhD Teaching Assistant Award, ECE Dept., Spring 2013**)
- [PD 6] Hao Chen, Sp' 2015. "A Hardware-based, Collaborative, Auto-Defensive Network Infrastructure" (**Outstanding PhD Student Research Award, ECE Dept., Spring 2013**)
- [PD 7] Jun Feng, Fa' 2012. "Data Security Technologies for Robust Cloud Storage Services" (**Outstanding PhD Student Research Award, ECE Dept., Spring 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

### *Book Chapter Contribution*

- [B1] 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.
- [B2] 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.
- [B3] 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.
- [B4] 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.
- [B5] 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, ISBN 978-1119524984, 2018.
- [B6] 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.
- [B7] 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, ISBN 978-3-319-45143-5, Nov. 2016.
- [B8] 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.
- [B9] 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.
- [B10] 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.

- [B11] 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.
- [B12] 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.
- [B13] **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.
- [B14] 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.
- [B15] **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.
- [B16] **Y. Chen** and W.-S. Ku, “Distributed Data Aggregation for Real-Time DDoS Attacks Detection,” *Encyclopedia of Data Warehousing and Mining*, 2<sup>nd</sup> Edition, edited by John Wang, published by Idea Group, Inc., ISBN 1591405572, 2008.

#### **Journal/Magazine Publications**

- [J1] 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>.
- [J2] 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.
- [J3] X. Li and **Y. Chen**, “Lightweight 2D Imaging for Integrated Imaging and Communication Applications,” *the IEEE Signal Processing Letters*, February 2021.
- [J4] 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>.
- [J5] 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>.
- [J6] 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.
- [J7] 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.

- [J8] A. Fitwi, M. Yuan, S. Y. Nikouei, and **Y. Chen**, “Minor Privacy Protection by Real-Time Children Identification and Face Scrambling at the Edge,” *the EAI Endorsed Transactions on Security and Safety*, May 2020.
- [J9] 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.
- [J10] 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 TSC)*, May 2019.
- [J11] 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.
- [J12] 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.
- [J13] X. Lin, R. Xu, D. K. Hwang, and **Y. Chen**, “Enhance Generalized Exchange Economy Using Blockchain: a Time Banking Case Study,” *the IEEE Blockchain Technical Briefs*, March 2019.
- [J14] T. Gao, F. Li, **Y. Chen**, and X. Zou, “Local Differential Privately Anonymizing Online Social Networks under HRG-based Model,” *the IEEE Transactions on Computational Social Systems*, Vol. 5, Issue 4, November 2018.
- [J15] 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.
- [J16] 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. (**MDPI Computers 2019 Best Paper Award**)
- [J17] B. Liu and **Y. Chen**, “A Scalable Fine-Grained Analytic Model for Container based Cloud Data Centers,” *Int. J. of Internet Technology and Secured Transactions (IJITST)*, Jan. 2018.
- [J18] Q. Dong, Z. Yang, **Y. Chen**, X. Li, and K. Zeng, “Exploration of Singular Spectrum Analysis for Online Anomaly Detection in CRNs,” *EAI Endorsed Transactions on Security and Safety*, Vol. 4, Issue 2, December 2017.
- [J19] H. Gebre-Amlak, A. M. A. Jabbari, **Y. Chen**, B.-Y. Choi, C.-T. Huang, and S. Song, “Agile Polymorphic Software-Defined Fog Computing Platform for Mobile Wireless Controllers and Sensors,” *Int. J. of Internet Technology and Secured Transactions (IJITST)*, Sept. 2017.
- [J20] R. Wu, B. Liu, **Y. Chen**, E. Blasch, H. Ling, and G. Chen, “A Container-based Elastic Cloud Architecture for Pseudo Real-time Exploitation of Wide Area Motion Imagery (WAMI) Stream,” *Special Issue: Dynamic Data Driven Application Systems (DDDAS) Concepts in Signal Processing, Journal of Signal Processing Systems*, Vol. 88, No. 2, 2017.
- [J21] T. Gaska, C. Watkins, and **Y. Chen**, “Integrated Modular Avionics (IMA) Past, Present, and Future,” *IEEE Aerospace and Electronic Systems, Special Issue on Avionics Systems*, Vol. 30, No. 9, September 2015.
- [J22] D. Arnold, Q. Gui, **Y. Chen**, and Z. Jin, “Data Imputation in Patient Monitoring: An Exploration of Significance of Patient Demographics,” *the International Journal of Intelligent Information Processing (IJIP)*, Vol. 5, No.3, 2015.
- [J23] Z. Jin and **Y. Chen**, “Telemedicine in Cloud Era: Prospect and Challenges,” *IEEE Pervasive Computing*,



January – March Issue, 2015.

- [J24] A. Carpenter and **Y. Chen**, "Hardware Security in the Dark," *Special Issue on Information and System Security, International Journal of Software and Informatics (IJSI)*, Vol. 8, No. 2, 2014.
- [J25] A. Dolgikh, Z. Birnbaum, B. Liu, **Y. Chen**, and V. Skormin, "Cloud Security Auditing based on Behavioral Modeling," *International Journal of Business Process Integration and Management*, Vol. 7, No. 2, 2014.
- [J26] B. Liu, E. Blasch, **Y. Chen**, A. J. Aved, A. Hadiks, D. Shen, and G. Chen, "Information Fusion in Cloud Computing Era: A Systems-Level Perspective," *IEEE Aerospace and Electronic Systems (AES) Magazine*, Vol. 29, No. 10, pp.16-24, October 2014.
- [J27] X. Wang, Q. Gui, B. Liu, Z. Jin, and **Y. Chen**, "Enabling Smart Personalized Healthcare: a Hybrid Mobile-Cloud Approach for ECG Telemonitoring," *IEEE Journal of Biomedical and Health Informatics (JBHI)*, Vol. 18, No. 3, May 2014.
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### **Conference/Workshop Publications**

- [C1] K. Almalki, M. Mohzary, B. Choi, S. Song, and **Y. Chen**, “Crowd Safety Sensing (CroSS) for the Post Pandemic Era,” *the 2021 IEEE Globecom: Workshop on Sustainable Environmental Sensing Systems (SESSy)*, Madrid, Spain, Dec. 7 – 11, 2021.
- [C2] K. Almalki, B. Choi, **Y. Chen**, and S. Song, “Characterizing Scattered Occlusions for Effective Dense-Mode Crowd Counting,” *the 1<sup>st</sup> Occluded Video Instance Segmentation (OVIS) Workshop, in conjunction with ICCV 2021*, Virtual, Oct. 11 – 17, 2021.
- [C3] M. Khan and **Y. Chen**, “A Randomized Switched-Mode Voltage Regulation System for IoT Edge Device to Defend Against Power Analysis based Side Channel Attack,” *the 10th International Symposium on Security & Privacy on Internet of Things (SPIoT 2021)*, New York, October 01-03, 2021.
- [C4] D. Nagothu, R. Xu, **Y. Chen**, E. Blasch, and A. Aved, “DeFake: Decentralized ENF-Consensus-based DeepFake Detection in Video Conferencing,” *the Special Session on “Deepfake Video Generation and Detection” at the IEEE 23rd International Workshop on Multimedia Signal Processing (IEEE MMSP 2021)*, Tampere, Finland, on October 06-08, 2021.
- [C5] K. Almalki, M. Mohzary, B. Choi, S. Song, and **Y. Chen**, “MOSAIC: Modelling Safety Index in Crowd by Detecting Face Masks against COVID-19 and Beyond,” *the 2021 IEEE International Smart Cities Conference (IEEE ISC2 2021)*, Virtual, Sept. 7 – 10, 2021.
- [C6] R. Xu and **Y. Chen**, “Fed-DDM: a Federated Ledgers based Framework for Hierarchical Decentralized Data Marketplaces,” *the 4<sup>th</sup> International Workshop on Blockchain Enabled Sustainable Smart Cities (BLESS), in conjunction with 30<sup>th</sup> International Conference on Computer Communications and Networks (ICCCN 2021)*, Athens, Greece, July 19 – 22, 2021.
- [C7] A. Fitwi and **Y. Chen**, “Secure and Privacy-Preserving Stored Surveillance Video Sharing atop Permissioned Blockchain,” *the 4<sup>th</sup> International Workshop on Blockchain Enabled Sustainable Smart Cities (BLESS), in conjunction with 30<sup>th</sup> International Conference on Computer Communications and Networks (ICCCN 2021)*, Athens, Greece, July 19 – 22, 2021.
- [C8] W. Quan, D. Nagothu, N. Poredi, and **Y. Chen**, “CriPI: an Efficient Critical Pixels Identification Algorithm for Fast One-Pixel Attacks,” *the SPIE Defense + Commercial Sensing (DCS)*, Orlando, FL, USA, April 11 – 15, 2021.
- [C9] H. Sun, **Y. Chen**, A. Aved, and E. Blasch, “Collaborative Multi-Object Tracking as an Edge Service using Transfer Learning,” *the 18<sup>th</sup> IEEE International Conference on Smart City (Smart City 2020)*, Fiji, Dec. 14 - 16, 2020.
- [C10] A. Fitwi, **Y. Chen**, and S. Zhu, “PriSE: Slenderized Privacy-Preserving Surveillance as an Edge Service,” *the 6th IEEE International Conference on Collaboration and Internet Computing (IEEE CIC 2020)*, Virtual Conference, Dec. 1 - 3, 2020. **[Best Paper Award]**
- [C11] R. Xu, Z. Zhai, **Y. Chen**, and J. K. Lum, “BIT: A Blockchain Integrated Time Banking System for Community Exchange Economy,” *the Third International Workshop on Blockchain Enabled Sustainable Smart Cities (BLESS 2020)*, held in conjunction with *the 2020 IEEE International Smart Cities Conference (ISC2 2020)*, Virtual Conference, Sept. 28, 2020.

- [C12] A. Fitwi and **Y. Chen**, “Privacy-Preserving Selective Video Surveillance,” *the 29<sup>th</sup> International Conference on Computer Communications and Networks (ICCCN 2020)*, Honolulu, Hawaii, August 3 – 6, 2020.
- [C13] M. Yuan, S. Nikouei, A. Fitwi, **Y. Chen**, and Y. Dong, “Minor Privacy Protection Through Real-Time Video Processing at the Edge,” *the 2<sup>nd</sup> International Workshop on Smart City Communication and Networking (SmartCityCom2020)*, in conjunction with the 29<sup>th</sup> International Conference on Computer Communications and Networks (ICCCN 2020), Honolulu, Hawaii, August 3 – 6, 2020.
- [C14] Y. Sun, S. Chen, S. Zhu, and **Y. Chen**, “iRyP: A Visual Privacy-Respecting System for Mobile Cameras,” *the 13<sup>th</sup> ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec 2020)*, Linz, Austria, July 8 – 10, 2020.
- [C15] Q. Qu, R. Xu, S. Nikouei, and **Y. Chen**, “An Experimental Study on Microservices based Edge Computing Platforms” *the International Workshop on Computer and Networking Experimental Research using Testbeds (CNERT)– in conjunction with IEEE INFOCOM*, Toronto, Canada, July 6 – 9, 2020.
- [C16] R. Xu, **Y. Chen**, E. Blasch, A. Aved, G. Chen, and D. Shen, “Hybrid Blockchain-Enabled Secure Microservices Fabric for Decentralized Multi-Domain Avionics Systems,” *the SPIE Defense + Commercial Sensing 2020*, Anaheim, CA, April 26 – 30, 2020.
- [C17] J. St. Cyr, J. Vanderpool, **Y. Chen**, and X. Li, “HODET: Hybrid Object Detection and Tracking using mmWave Radar and Visual Sensors,” *the SPIE Defense + Commercial Sensing 2020*, Anaheim, CA, April 26 – 30, 2020.
- [C18] M. Rosenberg, J. H. Burns, D. Nagothu, and **Y. Chen**, “Enabling Continuous Operations for UAVs with an Autonomous Service Network Infrastructure,” *the SPIE Defense + Commercial Sensing 2020*, Anaheim, CA, April 26 – 30, 2020.
- [C19] E. Blasch, **Y. Chen**, D. Shen, and G. Chen, “Test and Evaluation Needs of Multi-Domain Autonomous Systems,” *the SPIE Defense + Commercial Sensing 2020*, Anaheim, CA, April 26 – 30, 2020.
- [C20] R. Xu, **Y. Chen**, and J. Li, “Poster: MicroFL – A Lightweight, Secure-by-Design Edge Network Fabric for Decentralized IoT Systems,” *the Network and Distributed System Security Symposium (NDSS 2020)*, San Diego, CA, February 23 – 26, 2020.
- [C21] E. Blasch, R. Xu, S. Y. Nikouei, and **Y. Chen**, “A Study of Lightweight DDDAS Architecture for Real-Time Public Safety Applications through Hybrid Simulation,” *the 2019 Winter Simulation Conference*, National Harbor, MD, USA, December 8 - 11, 2019.
- [C22] A. Fitwi, D. Nagothu, **Y. Chen**, and E. Blasch, “A Distributed Agent based Framework for a Constellation of Drones in a Military Operation,” *the 2019 Winter Simulation Conference*, National Harbor, MD, USA, December 8 – 11, 2019.
- [C23] 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.
- [C24] R. Xu, G. S. Ramachandran, **Y. Chen**, and B. Krishnamachari, “BlendSM-DDM: BLockchain-ENabled Secure Microservices for Decentralized Data Marketplaces,” *the 2<sup>nd</sup> International Workshop on BLockchain Enabled Sustainable Smart Cities (BLESS 2019)*, held in conjunction with the 5<sup>th</sup> IEEE International Smart Cities Conference (ISC2 2019), Casablanca, Morocco, October 14 - 17, 2019.
- [C25] 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.
- [C26] E. Blasch, R. Xu, **Y. Chen**, G. Chen, and D. Shen, “Blockchain Methods for Avionics Systems,” *the 2019*

*National Aerospace & Electronics Conference (NAECON'19)*, Dayton, OH., USA, July 15 - 19, 2019.

- [C27] R. Xu, S. Nikouei, **Y. Chen**, E. Blasch, and A. Aved, "BlendMAS: a BLockchain-ENabled Decentralized Microservices Architecture for Smart Public Safety," *the International Workshop on Lightweight Blockchain for Edge Intelligence and Security (LightChain)*, held in conjunction with *the 2<sup>nd</sup> IEEE International Conference on Blockchain (Blockchain-2019)*, Atlanta, USA, July 14 - 17, 2019.
- [C28] A. Fitwi, **Y. Chen**, and S. Zhu, "A Lightweight Blockchain-based Privacy Protection for Smart Surveillance at the Edge," Position Paper, *the International Workshop on Lightweight Blockchain for Edge Intelligence and Security (LightChain)*, held in conjunction with *the 2<sup>nd</sup> IEEE International Conference on Blockchain (Blockchain-2019)*, Atlanta, USA, July 14 - 17, 2019.
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- [C30] X. Lin, R. Xu, **Y. Chen**, and J. K. Lum, "A Blockchain-Enabled Decentralized Time Banking for a New Social Value System," *the 2<sup>nd</sup> Workshop on Distributed Ledger of Things (DLot 2019)*, Washington DC, USA, June 10-12, 2019.
- [C31] X. Zhao, **Y. Chen**, E. Blasch, L. Zhang, and G. Chen, "Face Recognition in Low-Resolution Surveillance Video Streams," *the SPIE Defense & Commercial Sensing 2019 (DCS), Conference on Sensors and Systems for Space Applications*, Baltimore, MD, USA, April 14-18, 2019.
- [C32] S. Nikouei, R. Xu, **Y. Chen**, A. Aved, and E. Blasch, "Decentralized Smart Surveillance through Microservices Platform," *the SPIE Defense & Commercial Sensing 2019 (DCS), Conference on Sensors and Systems for Space Applications*, Baltimore, MD, USA, April 14-18, 2019.
- [C33] D. Nagothu, J. Schwell, **Y. Chen**, E. Blasch, and S. Zhu, "A Study on Smart Online Frame Forging Attacks against Video Surveillance System," *the SPIE Defense & Commercial Sensing 2019 (DCS), Conference on Sensors and Systems for Space Applications*, Baltimore, MD, USA, April 14-18, 2019.
- [C34] H. Song, **Y. Chen**, N. Zhou, and G. Chen, "Electricity Consumption Forecasting for Smart Grid using Multi-Factor Back-Propagation Neural Network," *the SPIE Defense & Commercial Sensing 2019 (DCS), Conference on Sensors and Systems for Space Applications*, Baltimore, MD, USA, April 14-18, 2019.
- [C35] A. Fitwi and **Y. Chen**, "An Agent Administrator based Security Mechanism for Distributed Sensors and Drones for Smart Grid Monitoring," *the SPIE Defense & Commercial Sensing 2019 (DCS), Conference on Signal Processing, Sensor/Information Fusion, and Target Recognition*, Baltimore, MD, USA, April 14-18, 2019.
- [C36] E. Blasch, D. Shen, B. Jia, Z. Wang, G. Chen, **Y. Chen**, and K. Pham, "Autonomy in Use (AIU) for Space Situation Awareness," *the SPIE Defense & Commercial Sensing 2019 (DCS), Conference on Sensors and Systems for Space Applications*, Baltimore, MD, USA, April 14-18, 2019.
- [C37] G. Chen, N. Sullivan, S. Wei, J. Lu, D. Shen, K. Foo, **Y. Chen**, Y. Kim, K. Pham, and E. Blasch, "Blockchain and Next Generation Artificial Intelligence for Space Application," *the SPIE Defense & Commercial Sensing 2019 (DCS), Conference on Sensors and Systems for Space Applications*, Baltimore, MD, USA, April 14-18, 2019.
- [C38] R. Xu, S. Chen, L. Yang, **Y. Chen**, and G. Chen, "Decentralized Autonomous Imaging Data Processing using Blockchain," *the SPIE Photonics West BIOS 2019, Conference on Multimodal Biomedical Imaging XIV*, San Francisco, CA, USA, February 2-7, 2019.
- [C39] S. Y. Nikouei, **Y. Chen**, S. Song, and T. Faughnan, "Kerman: A Hybrid Lightweight Tracking Algorithm to Enable Smart Surveillance as an Edge Service," *the 16<sup>th</sup> IEEE Consumer Communications & Networking Conference (IEEE CCNC 2019)*, Las Vegas, NV, USA, January 11-14, 2019. [**Best Paper Award**]

- [C40] R. Xu, X. Lin, Q. Dong, and **Y. Chen**, “Constructing Trustworthy and Safe Communities on a Blockchain-Enabled Social Credits System,” Position Paper, *the 1<sup>st</sup> Workshop on Distributed Ledger of Things (DLot 2018)*, New York, NY, USA, November 5, 2018.
- [C41] S. Y. Nikouei, **Y. Chen**, and T. Faughnan, “Smart Surveillance as an Edge Service for Real-Time Human Detection and Tracking,” *Poster, the 3<sup>rd</sup> ACM/IEEE Symposium on Edge Computing (SEC 2018)*, Bellevue, WA, USA, October 25-27, 2018.
- [C42] S. Y. Nikouei, **Y. Chen**, S. Song, R. Xu, B. Y. Choi, and T. Faughnan, “Smart Surveillance as an Edge Network Service: from Harr-Cascaded, SVM to a Lightweight CNN,” *IEEE 4<sup>th</sup> International Conference on Collaboration and Internet Computing (IEEE CIC)*, Philadelphia, PA, USA, October 18-20, 2018.
- [C43] Q. Dong, **Y. Chen**, X. Li, and K. Zeng, “Position Paper: A Theoretical Framework for General Cognition Evaluation of Cognitive Radios,” *the 4<sup>th</sup> IEEE International Smart Cities Conference (ISC2 2018)*, Kansas City, MO, USA, Sept. 16 - 19, 2018.
- [C44] Q. Dong, **Y. Chen**, X. Li, and K. Zeng, “Exploration of Recurrent Neural Network for PUE Attack Detection in Practical CRN Models,” *the 4<sup>th</sup> IEEE International Smart Cities Conference (ISC2 2018)*, Kansas City, MO, USA, Sept. 16 - 19, 2018.
- [C45] D. Nagothu, R. Xu, S. Y. Nikouei, and **Y. Chen**, “A Robust and Scalable Smart Surveillance System Architecture based on Enhanced Microservices using Blockchain,” Position Paper, *the 1<sup>st</sup> International Workshop on BLockchain Enabled Sustainable Smart Cities (BLESS 2018)*, in conjunction with the 4<sup>th</sup> IEEE International Smart Cities Conference (ISC2 2018), Kansas City, MO, USA, Sept. 19, 2018.
- [C46] S. Y. Nikouei, R. Xu, D. Nagothu, **Y. Chen**, A. Aved, and E. Blasch, “Real-Time Index Authentication for Event-Oriented Surveillance Video Query using Blockchain,” *the 1<sup>st</sup> International Workshop on BLockchain Enabled Sustainable Smart Cities (BLESS 2018)*, in conjunction with the 4<sup>th</sup> IEEE International Smart Cities Conference (ISC2 2018), Kansas City, MO, USA, Sept. 19, 2018.
- [C47] Q. Dong, **Y. Chen**, X. Li, and K. Zeng, “An Adaptive PUE Attack Detection Mechanism for Cognitive Radio Networks,” *the 14<sup>th</sup> International Conference on Security and Privacy in Communication Networks (SecureComm 2018)*, Singapore, August 8 – 10, 2018.
- [C48] R. Xu, **Y. Chen**, E. Blasch, and G. Chen, “BlendCAC: A BLockchain-Enabled Decentralized Capability-based Access Control for IoTs,” *the 2018 IEEE International Conference on Blockchain (Blockchain-2018)*, Halifax, Canada, July 30 – Aug. 03, 2018.
- [C49] S. Nikouei, **Y. Chen**, S. Song, R. Xu, B.-Y. Choi, and T. Faughnan, “Real-Time Human Detection as an Edge Service Enabled by a Lightweight CNN,” *the IEEE International Conference on Edge Computing (IEEE EDGE 2018)*, Work-in-Progress (WiP), San Francisco, CA, USA, July 2-7, 2018.
- [C50] R. Xu, S. Nikouei, **Y. Chen**, S. Song, A. Polunchenko, C. Deng, and T. Faughnan, “Real-Time Human Object Tracking for Smart Surveillance at The Edge,” *the IEEE International Conference on Communications, Selected Areas in Communications Symposium Smart Cities Track (ICC SmartCities 2018)*, Kansas City, MO, USA, May 20-24, 2018.
- [C51] Z. Yang, N. Chen, **Y. Chen**, and N. Zhou, “A Novel PMU Fog based Early Anomaly Detection for an Efficient Wide Area PMU Network,” *the 2nd IEEE International Conference on Fog and Edge Computing (ICFEC 2018)*, Washington DC, USA, May 1-4, 2018.
- [C52] R. Xu, **Y. Chen**, E. Blasch, and G. Chen, “A Federated Capability-based Access Control Mechanism for Internet of Things (IoT),” *the SPIE Defense & Commercial Sensing 2018 (DCS), Conference on Sensors and Systems for Space Applications*, Orlando, FL, USA, April 15-19, 2018.
- [C53] J. Lu, N. Chen, X. Xiang, D. Shen, G. Chen, E. Blasch, K. Pham, and **Y. Chen**, “Artificial Intelligence based Directional Mesh Network Design for Spectrum Efficiency,” *the 39<sup>th</sup> IEEE Aerospace Conference*,

Big Sky, Montana, USA, March 3-10, 2018.

- [C54] N. Chen, **Y. Chen**, E. Blasch, H. Ling, Y. You, and X. Ye, “Enabling Smart Urban Surveillance at The Edge,” *the Second IEEE International Conference on Smart Cloud (SmartCloud 2017)*, New York, NY, USA, November 3-5, 2017.
- [C55] N. Alkassab, C.-T. Huang, **Y. Chen**, B.-Y. Choi, and S. Song, “Benefits and Schemes of Prefetching from Cloud to Fog Networks,” *the IEEE 6<sup>th</sup> International Conference on Cloud Networking (CloudNet 2017)*, Prague, Czech Republic, September 25-27, 2017.
- [C56] Z. Yang, M. Ghorbaniparvar, N. Zhou, and **Y. Chen**, “Enhancing Sustained Oscillation Detection by Data Pre-Processing Using SSA,” *the 49<sup>th</sup> North American Power Symposium (NAPS 2017)*, Morgantown, WV, USA, Sept. 17-19, 2017.
- [C57] Q. Dong, Z. Yang, **Y. Chen**, X. Li, and K. Zeng, “Anomaly Detection in Cognitive Radio Networks Exploiting Singular Spectrum Analysis,” *the 7<sup>th</sup> International Conference on Mathematical Methods, Models and Architectures for Computer Network Security (MMM-ACNS 2017)*, Warsaw, Poland, August 28-30, 2017. [**Best Paper Award**]
- [C58] T. Gao, F. Li, **Y. Chen**, and X. Zou, “Preserving Local Differential Privacy in Online Social Networks,” *the 12<sup>th</sup> International Conference on Wireless Algorithms, Systems, and Applications (WASA 2017)*, Guilin, China, June 19-21, 2017.
- [C59] T. Gaska, **Y. Chen**, D. Summerville, and M. Gaska, “Model based Design for Advanced Integrated Modular Avionics – Focus and Challenges,” *the 73<sup>rd</sup> AHS International Annual Forum*, Fort Worth, TX, USA, May 9-11, 2017.
- [C60] N. Chen, Z. Yang, **Y. Chen**, and A. Polunchenko, “Online Anomalous Vehicle Detection at the Edge Using Multidimensional SSA,” *the 3<sup>rd</sup> IEEE INFOCOM Workshop on Smart Cities and Urban Computing (SmartCity 2017)*, Atlanta, GA, USA, May 1, 2017.
- [C61] H. Gebre-Amlak, S. Lee, A. M. A. Jabbari, **Y. Chen**, B.-Y. Choi, C.-T. Huang, and S. Song, “MIST: Mobility-Inspired SoftWare-Defined Fog System,” *the 2017 International Conference on Consumer Electronics (ICCE), Cloud Computing Track*, Las Vegas, NV, USA, January 8 - 11, 2017.
- [C62] M. Dabaghchian, S. Liu, A. Alipour-Fanid, K. Zeng, X. Li, and **Y. Chen**, “Intelligence Measure of Cognitive Radio with Learning Capabilities,” *the IEEE GlobeCom 2016 – Symposium on Cognitive Radio and Networks*, Washington, DC, USA, Dec. 4-8, 2016.
- [C63] P. Huang, B. Li, L. Guo, Z. Jin, and **Y. Chen**, “A Robust and Reusable ECG-based Authentication and Data Encryption Scheme for eHealth System,” *the IEEE GlobeCom 2016 – Symposium on Communication & Information System Security*, Washington, DC, USA, Dec. 4-8, 2016.
- [C64] N. Chen, **Y. Chen**, S. Song, C. Huang, and X. Ye, “Smart Urban Surveillance using Fog Computing,” *the First IEEE/ACM Symposium on Edge Computing (SEC 2016)*, Poster, Washington DC, USA, Oct. 27-28, 2016.
- [C65] T. Gaska, **Y. Chen**, and D. Summerville, “Leveraging Driverless Car Investment in Next Generation Avionics IMA,” *the 35<sup>th</sup> IEEE Digital Avionics Systems Conference (DASC 2016)*, Sacramento, CA, USA, Sept. 25-29, 2016.
- [C66] B. Poland and **Y. Chen**, “AUSA Sensing and Commercial UAS Technology Trends,” *the Military Sensing Symposium*, Washington, DC, USA, June 20-24, 2016.
- [C67] N. Chen, **Y. Chen**, Y. You, H. Ling, P. Liang, and R. Zimmermann, “Dynamic Urban Surveillance Video Stream Processing using Fog Computing,” *the 2<sup>nd</sup> IEEE International Conference on Multimedia Big Data (BigMM 2016)*, Invited paper, Taipei, Taiwan, April 20-22, 2016.

- [C68] **Y. Chen**, E. Blasch, N. Chen, A. Deng, H. Ling, and G. Chen, "Real-Time WAMI Streaming Target Tracking in Fog," *the 2016 SPIE Defense, Security, and Sensing (DSS)*, Baltimore, Maryland, USA, April 17 – 21, 2016.
- [C69] B. Liu, Y. Lin, and **Y. Chen**, "A Quantitative Workload Analysis of Google Cluster Traces," *the 1<sup>st</sup> IEEE Workshop on Big Data Sciences, technologies, and Applications (BDSTA 2016)*, in conjunction with *IEEE INFOCOM*, San Francisco, CA, USA, April 11, 2016.
- [C70] X. Li, **Y. Chen**, and K. Zeng, "Integration of Machine Learning and Human Learning for Training Optimization in Robust Linear Regression," *the 41<sup>st</sup> IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Shanghai, China, March 2016.
- [C71] D. Summerville, K. Zach, and **Y. Chen**, "Ultra-Lightweight Deep Packet Anomaly Detection for Internet of Things Devices," *the 34<sup>th</sup> IEEE International Performance Computing and Communications Conference (IPCCC)*, Nanjing, China, Dec. 14-16, 2015.
- [C72] Z. Yang, N. Zhou, A. S. Polunchenko, and **Y. Chen**, "Singular Spectrum Analysis based Quick Online Detection of Disturbance Start Time in Power Grid," *the IEEE GlobeCom 2015 – Selected Areas in Communications Symposium: Smart Grid Communications Track*, San Diego, CA, USA, Dec. 6-10, 2015.
- [C73] B. Poland, **Y. Chen**, and J. Powell, "Performance Comparison Experiment of Optimized TCP via Emulation and Live Flight on SUAS," *the 34<sup>th</sup> IEEE Military Communication Conference (Milcom 2015)*, Tampa, FL, USA, Oct. 26 – 28, 2015.
- [C74] R. Wu, B. Liu, **Y. Chen**, E. Blasch, H. Ling, and G. Chen, "Pseudo-Real-Time Wide Area Motion Imagery (WAMI) Processing for Dynamic Feature Detection," *The International Conference on Information Fusion (Fusion 2015) – Special Session on Dynamic Data Driven Application Systems for Sensor Data Problems*, Washington DC, USA, July 6-9, 2015.
- [C75] R. Wu, A. Deng, **Y. Chen**, E. Blasch, and B. Liu, "Cloud Technology Applications for Area Surveillances," *the 2015 National Aerospace & Electronics Conference (NAECON'15)*, Dayton, OH., USA, June 16 - 18, 2015.
- [C76] Q. Dong, **Y. Chen**, and S. Towfighian, "MEGA: an Energy Aware Algorithm for Self-Powered Wireless Sensor Networks in Sustainable Smart Infrastructure," *the 2nd Workshop on Green Broadband Access: Energy Efficient Wireless and Wired Network Solutions - IEEE GlobeCom 2014*, Austin, Texas, USA, Dec. 12, 2014.
- [C77] R. Wu, **Y. Chen**, E. Blasch, B. Liu, and G. Chen, "A Container-Based Elastic Information Fusion Cloud Architecture for Real-Time Full-Motion Video (FMV) Target Tracking," *the 2014 IEEE Applied Imagery Pattern Recognition (AIPR) workshop*, Washington DC, USA, October 14-16, 2014. **[Best Student Poster Award]**
- [C78] B. Poland, **Y. Chen**, M. Muccio, and D. Hague, "Context Aware TCP for Intelligence, Surveillance and Reconnaissance Mission on Autonomous Platforms," *the Military Communications Conference (MILCOM)*, Baltimore, MD, USA, October 6-8, 2014.
- [C79] B. Liu, **Y. Chen**, D. Shen, G. Chen, K. Pham, E. Blasch, and B. Rubin, "An Adaptive Process based Cloud Infrastructure for Space Situational Awareness Applications," *the 2014 SPIE Defense, Security, and Sensing (DSS)*, Baltimore, Maryland, USA, May 5 – May 9, 2014.
- [C80] A. Hadiks, **Y. Chen**, F. Li, and B. Liu, "A Study of Stealthy Denial-of-Service Attacks in Wi-Fi Direct Device-to-Device Networks," *the 11<sup>th</sup> Annual IEEE Consumer Communication & Networking Conference, Work-in-Progress (CCNC 2014, WiP)*, Las Vegas, NV, USA, Jan. 10 - 13, 2014.
- [C81] J. Hubbard, K. Weimer, and **Y. Chen**, "A Study of SSL Proxy Attacks on Android and iOS Mobile Applications," *the 11<sup>th</sup> Annual IEEE Consumer Communication & Networking Conference (CCNC 2014)*,

Las Vegas, NV, USA, Jan. 10 - 13, 2014.

- [C82] R. Golatkar, **Y. Chen**, and W.-S. Ku, "LAVI: A Location Aware Virtual Infrastructure for VANETs," *the 2<sup>nd</sup> International Conference on Connected Vehicles & Expo. (ICCVE 2013)*, Las Vegas, NV, USA, Dec. 2 - 6, 2013.
- [C83] B. Liu, E. Blasch, **Y. Chen**, D. Shen, and G. Chen, "Scalable Sentiment Classification for Big Data Analysis Using Naive Bayes Classifier," *Workshop on Scalable Machine Learning: Theory and Applications, in conjunction with the 2013 IEEE International Conference on Big Data (IEEE Big Data 2013)*, Santa Clara, CA, USA, October 6-9, 2013.
- [C84] Q. Gui, B. Liu, X. Wang, Z. Jin, and **Y. Chen**, "Finding Needles in a Haystack: Reducing False Alarm Rate Using Telemedicine Mobile Cloud," *the First Workshop on Mobile Cloud Computing in Healthcare (WMCCH), held in conjunction with IEEE International Conference on Healthcare Informatics (ICHI 2013)*, Philadelphia, USA, Sept. 9-11, 2013.
- [C85] B. Liu, **Y. Chen**, D. Shen, G. Chen, E. Blasch, and Khanh Pham, "A Holistic Cloud-Enabled Robotics System for Real-Time Video Tracking Application," *the International Workshop on Cloud Enhanced Information Fusion (CloudFusion 2013), in conjunction with 8th FutureTech Conference*, Gwangju, Korea, September 4-6, 2013.
- [C86] Z. Birnbaum, B. Liu, A. Dolgikh, **Y. Chen**, and V. Skormin, "Cloud Security Auditing based on Behavioral Modeling," *the IEEE 2013 First International Workshop on Cloud Security Auditing (CSAW)*, Santa Clara, CA, USA, June 27 - July 2, 2013.
- [C87] A. Dolgikh, Z. Birnbaum, **Y. Chen**, and V. Skormin, "Behavioral Modeling for Suspicious Process Detection in Cloud Computing Environments," *the 2013 International Workshop on Mobile Cloud Computing: Data, Management & Security (mCloud), in conjunction with the 14th IEEE International Conference on Mobile Data Management (IEEE MDM 2013)*, Milan, Italy, June 3 – 6, 2013.
- [C88] B. Liu, **Y. Chen**, D. Shen, G. Chen, K. Pham, and E. Blasch, "A Cloud-based Space Situational Awareness: Initial Design and Evaluation," *the 2013 SPIE Defense, Security, and Sensing (DSS)*, Baltimore, Maryland, USA, April 29 – May 3, 2013.
- [C89] H. Chen, **Y. Chen**, D. H. Summerville, and Z. Su, "An Optimized Design of Reconfigurable PSD Accelerator for Online Shrew DDoS Attacks Detection," *the 32<sup>nd</sup> IEEE International Conference on Computer Communications (INFOCOM 2013)*, Turin, Italy, April 14 - 19, 2013.
- [C90] X. Wang, Q. Gui, B. Liu, **Y. Chen**, and Z. Jin, "Leveraging Mobile Cloud for Telemedicine: A Performance Study in Medical Monitoring," *the 39th Annual Northeast Bioengineering Conference*, Syracuse, NY, April 5 - 7, 2013.
- [C91] R. I. Ledesma Goyzueta and **Y. Chen**, "A Deterministic Loss Model based Analysis of CUBIC," *the International Conference on Computing, Networking and Communications, Communication QoS and System Modeling Symposium (ICNC'13 - CQSM)*, San Diego, CA, USA, January 28 - 31, 2013.
- [C92] B. Kerrigan and **Y. Chen**, "A Study of Entropy Sources in Cloud Computers: Random Number Generation on Cloud Hosts," *the 6<sup>th</sup> International Conference on Mathematical Methods, Models, and Architecture for Computer Network Security (MMM-ACNS-2012)*, St. Petersburg, Russia, October 17-20, 2012.
- [C93] J. Feng, **Y. Chen**, D. Summerville, and Z. Su, "An Extension of RDP Code with Parallel Decoding Procedure," *the 9<sup>th</sup> IEEE Consumer Communications and Networking Conference (CCNC 2012)*, Las Vegas, NV, USA, Jan. 14 - 17, 2012.
- [C94] Z. Su, P. Ren, and **Y. Chen**, "Consistency Control to Manage Dynamic Contents over Vehicular Communication Networks," *the IEEE GlobeCom 2011- Communications QoS, Reliability, and Modeling Symposium*, Huston, Texas, USA, Dec. 5 - 9, 2011.



- [C95] M. Xiang, **Y. Chen**, W.-S. Ku, and Z. Su, "Mitigating DDoS Attacks using Protection Nodes in Mobile Ad hoc Networks," *the IEEE GlobeCom 2011- Communication & System Security Symposium*, Huston, Texas, USA, Dec. 5 - 9, 2011.
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- [C97] J. Feng, **Y. Chen**, and D. Summerville, "A Fair Multi-Party Non-Repudiation Scheme for Storage Clouds," *the 2011 International Conference on Collaboration Technologies and Systems (CTS 2011)*, Philadelphia, PA., USA, May 23 - 27, 2011.
- [C98] **Y. Chen**, C. Twigg, O. Sadik, and S. Tong, "A Self-Powered Adaptive Wireless Sensor Network for Wastewater Treatment Plants", *the 9<sup>th</sup> Annual IEEE Conference on Pervasive Computing and Communications (PerCom'2011)*, Seattle, USA, March 21 - 25, 2011.
- [C99] J. Feng, **Y. Chen**, D. Summerville, W.-S. Ku, and Z. Su, "Enhancing Cloud Storage Security against Roll-back Attacks with a New Fair Multi-Party Non-Repudiation Protocol", *the 8<sup>th</sup> IEEE Consumer Communications and Networking Conference - Security for CE Communications (CCNC'11)*, Las Vegas, Nevada, USA, January 9 - 12, 2011.
- [C100] **Y. Chen**, C.-J. Wang, W.-S. Ku, and Z. Su, "A Location Aware Virtual Infrastructure for VANETs", *the 8<sup>th</sup> IEEE Consumer Communications and Networking Conference - Security for CE Communications (CCNC'11)*, Las Vegas, Nevada, USA, January 9 - 12, 2011.
- [C101] H. Chen and **Y. Chen**, "A Comparison Study of Collaborative Strategies for Distributed Defense against Internet Worms based on Small-World Modeling," *the 6<sup>th</sup> International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2010)*, Chicago, Illinois, USA, Oct. 9 - 12, 2010.
- [C102] J. Feng, **Y. Chen**, W.-S. Ku, and P. Liu, "Analysis of Integrity Vulnerabilities and a Non-repudiation Protocol for Cloud Data Storage Platforms," *the 2<sup>nd</sup> International Workshop on Security in Cloud Computing (SCC 2010), held in conjunction with the 39<sup>th</sup> International Conference on Parallel Processing (ICPP 2010)*, San Diego, California, USA, Sept. 13, 2010.
- [C103] J. Feng, **Y. Chen**, W.-S. Ku, and Z. Su, "D-DOG: Securing Sensitive Data in Distributed Storage Space by Data Division and Out-of-order keystream Generation", *the 2010 IEEE International Conference on Communications - Communication and Information System Security Symposium (ICC'10 CISS)*, Cape Town, South Africa, May 23 - 27, 2010.
- [C104] J. Feng, **Y. Chen**, D. Summerville, "EEO: an Efficient MDS-like RAID-6 Code for Parallel Implementation," *the 33rd IEEE Sarnoff Symposium*, Princeton, NJ, USA, Apr. 12-14, 2010.
- [C105] P. Gasti and **Y. Chen**, "Breaking and Fixing the Self-Encryption Scheme for Data Security in Mobile Devices", *the 18<sup>th</sup> Euromicro International Conference on Parallel, Distributed and network-based Processing (PDP 2010) - Special Session "Security in Networked and Distributed Systems"* (SNDS 2010), Pisa, Italy, February 17 - 19, 2010.
- [C106] J. Feng, **Y. Chen** and P. Liu, "Bridging the Missing Link of Cloud Data Storage Security in AWS", *the 7<sup>th</sup> IEEE Consumer Communications and Networking Conference - Security for CE Communications (CCNC'10)*, Las Vegas, Nevada, USA, January 9 - 12, 2010.
- [C107] **Y. Chen** W.-S. Ku, K. Sakai, and C. DeCruze, "A Novel DDoS Attack Defending Framework with Minimized Bilateral Damages", *the 7<sup>th</sup> IEEE Consumer Communications and Networking Conference - Security for CE Communications (CCNC'10)*, Las Vegas, Nevada, USA, January 9 - 12, 2010.
- [C108] H. Chen, D. Summerville, and **Y. Chen**, "Two-Stage Decomposition of SNORT Rules towards Efficient

- Hardware Implementation,” *the 7<sup>th</sup> International Workshop on Design of Reliable Communication Networks* (DRCN 2009), Washington, D.C., USA, October 25 – 28, 2009.
- [C109] Z. Su, Z. Zhang, and **Y. Chen**, “Performance Evaluation of a Novel Caching Algorithm for Scalable Image Contents,” *the 2<sup>nd</sup> International Symposium on Intelligent Informatics (ISII 2009)*, Qinhuangdao, China, September 13 – 15, 2009.
- [C110] I. M. Atakli, **Y. Chen**, Q. Wu, and S. Craver, “BLINK: Pixel-Domain Encryption for Secure Document Management”, *the 11<sup>th</sup> ACM Workshop on Multimedia and Security (MMSEC 2009)*, Princeton, New Jersey, USA, September 7 - 8, 2009.
- [C111] **Y. Chen** and W.-S. Ku, “Self-Encryption Scheme for Data Security in Mobile Devices”, *the 6<sup>th</sup> IEEE Consumer Communications and Networking Conference - Security for CE Communications (CCNC’09)*, Las Vegas, Nevada, USA, January 10 - 13, 2009.
- [C112] S. Craver, **Y. Chen**, H. Chen, J. Yu, and I. M. Atakli, “BLINK: Securing Information to the Last Connection”, *the 6<sup>th</sup> IEEE Consumer Communications and Networking Conference (CCNC’09)*, Las Vegas, Nevada, USA, January 10 - 13, 2009.
- [C113] Z. Su, J. Katto, Y. Yasuda, and **Y. Chen**, “Consistency Control for Dynamic Contents in Mobile Overlay Network,” *the 3<sup>rd</sup> International Conference on Communications and Networking in China (ChinaCom’08)*, Hangzhou, China, August 25 – 27, 2008. **[Best Paper Award]**
- [C114] Z. Su, Z. Zhang, and **Y. Chen**, “Retrieve Scalable Image Contents over Image Contents Network by Efficient Caching Algorithms,” *the 3<sup>rd</sup> International Conference of Innovative Computing, Information and Control (ICICIC 2008)*, Dalian, China, June 18 – 20, 2008.
- [C115] H. Chen and **Y. Chen**, “A Novel Embedded Accelerator for Online Detection of Shrew DDoS Attacks,” *the 2008 IEEE International Conference on Networking, Architecture, and Storage (NAS’08)*, Chongqing, China, June 12 – 14, 2008.
- [C116] **Y. Chen**, J. Bao, W.-S. Ku, and J.-L. Huang, “Cache Management Techniques for Privacy Protected Location-based Services,” *the 2<sup>nd</sup> International Workshop on Privacy-Aware Location-based Mobile Services (PALMS’08)*, in conjunction with *the 9<sup>th</sup> International Conference on Mobile Data Management (MDM’08)*, Beijing, China, April 27, 2008.
- [C117] I. Atakli, H. Hu, **Y. Chen**, W.-S. Ku, and Z. Su, “Malicious Node Detection in Wireless Sensor Networks using Weighted Trust Evaluation,” invited paper, *the ACM/SIGSIM Symposium on Simulation of System Security (SSSS’08)*, Ottawa, Canada, April 14 – 17, 2008.
- [C118] **Y. Chen**, “NeuroNet: Towards an Intelligent Internet Infrastructure”, *the 5<sup>th</sup> IEEE Consumer Communications and Networking Conference (CCNC’08)*, Las Vegas, Nevada, USA, January 10 - 12, 2008.
- [C119] **Y. Chen**, K. Hwang, and W.-S. Ku, “Distributed Change-Point Detection of DDoS Attacks: Experimental Results on DETER Testbed”, *DETER Community Workshop on Cyber Security Experimentation and Test*, in conjunction with *USENIX Security Symposium (Security’07)*, Boston, MA., USA, August 6-7, 2007.
- [C120] **Y. Chen** and K. Hwang, “Spectral Analysis of TCP Flows for Defense against Reduction-of-Quality Attacks,” *the 2007 IEEE International Conference on Communications (ICC’07)*, Glasgow, Scotland, June 24-28, 2007.
- [C121] **Y. Chen** and K. Hwang, “Collaborative Change Detection of DDoS Attacks on Community and ISP Networks,” *the 2006 IEEE International Symposium on Collaborative Technologies and Systems (CTS’06)*, Las Vegas, Nevada, USA, May. 15-17, 2006.
- [C122] **Y. Chen**, K. Hwang, and Y.-K. Kwok, “Filtering of Shrew DDoS Attacks in Frequency Domain,” *the First IEEE LCN Workshop on Network Security (WoNS)*, in conjunction with the LCN 2005, Sydney, Australia,

Nov. 15-17, 2005.

- [C123] 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.
- [C124] **Y. Chen**, Y.-K. Kwok, and K. Hwang, "MAFIC: Adaptive Packet Dropping for Cutting Malicious Flows to Push Back DDoS Attacks," *the 2<sup>nd</sup> International Workshop on Security in Distributed Computing Systems (SDCS'05), in conjunction with ICDCS 2005*, Columbus, OH, USA, June 6-10, 2005.
- [C125] 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.
- [C126] **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.
- [C127] 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.
- [C128] 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.
- [C129] **Y. Chen**, X. Zhong, K. Li, and S. Xiao, "A MEMS CAD System Based on CORBA," *International Symposium on Smart Structures and Microsystems (IS<sup>3</sup>M 2000)*, Hong Kong, October 19-21, 2000.
- [C130] K. Li, X. Zhong, and **Y. Chen**, "Design for Micro Diffractive Lens for Imaging," *International Symposium on Smart Structures and Microsystems (IS<sup>3</sup>M 2000)*, Hong Kong, October 19-21, 2000.
- [C131] 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**

- [T1] "Microchained IoT Fabric for Secure-by-Design Edge Computing Environment," *The 2<sup>nd</sup> Workshop on Blockchain-enabled Networked Sensor Systems (BlockSys 2019)*, Columbia University, New York, Nov. 10, 2019
- [T2] "Cloud and Edge Technology for IoT," *Intelligent-Integrated IOT (I3) Conference and Workshop*, Los Angeles, CA, Jan. 04, 2019.
- [T3] "iSENSE: Intelligent Surveillance as an Edge Network Service," *Intelligent Fusion Technologies, Inc*, Germantown, MY, Dec. 08, 2017.
- [T4] "Quickest Online Distributed Disturbance Allocation for Large Scale Power Grid," *Clarkson University*, Potsdam, NY, Nov. 11, 2015.
- [T5] "Mission-Critical Urban Surveillance: the Way is in Fog, not in Cloud," *Auburn University*, Auburn, AL, Nov. 09, 2015.
- [T6] "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.
- [T7] "An Optimized Design of Reconfigurable PSD Accelerator for Online Shrew DDoS Attacks Detection," *Chongqing University*, China, June 24, 2014.
- [T8] "Information Fusion in Cloud Computing Era: A Systems-Level Perspective," *the AFRL/RIEA Alford Lecture Series Opportunities (ALSO)*, Rome, NY, July 25, 2013.
- [T9] "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.
- [T10] "In Introduction to Moving-Target Defense for Cloud Systems," *the CoCo Seminar Series*, Binghamton University, November 7, 2012.
- [T11] "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.
- [T12] "A Fair Non-Repudiation Framework for Cloud Storage," *the 11th Emerging Information and Technology Conference (EITC 2011)*, Chicago, Illinois, USA., July 28-29, 2011.
- [T13] "Analysis of Integrity Vulnerabilities and a Non-repudiation Framework for Storage Cloud," *Temple University*, Philadelphia, PA., August 2010.

[T14] Regional Symposium on Graduate Education and Research in Information Security (GERIS'09), Binghamton, NY, October 2009.

[T15] 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, Cybersecurity and Privacy of Frontiers in Big Data, 2018 ~

[E5] Editorial Board, Wireless Communications and Mobile Computing, 2018 ~

[E6] Editorial Board, the Journal of Platform Technology (JPT), 2013 ~

[E7] Editorial Board, the Journal of Multimedia Information Systems, 2013 ~

[E8] Editorial Board, the International Journal of Computer Networks (IJCN)

[E9] Editorial Board, the FTRA Journal of Convergence (JoC), 2012

[E10] 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

- [E11] Guest Editor, Electronics, Special Issue on New Challenges on Cyber Treat Intelligence, 2021
- [E12] Guest Editor, Future Generation Computer Systems, Special Issue on Social Internet of Things: Applications, Architectures and Protocols, 2018
- [E13] Guest Editor, Multimedia Tools and Applications, Special Issue on Intelligent Wireless Multimedia Surveillance Networks: Research Trends, Solutions, and Challenge, 2017
- [E14] 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.
- [E15] Editorial Board Member, the International Journal of Adaptive and Innovative Systems (IJ AIS), 2011 ~ 2012.
- [E16] Guest Editor, the International Journal of Cloud Computing, Special Issue on Information Assurance and System Security in Cloud Computing, 2012.
- [E17] Guest Editor, Peer-to-Peer Networking and Applications, Special Issue on Cloud, Grid, P2P and Internet Computing, 2012.
- [E18] Guest Editor, Special Issue in Information Journal, 2012.
- [E19] 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.
- [E20] 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] The International Workshop on BLockchain Enabled Sustainable Smart Cities (BLESS 2018, 2019, 2020, 2021)
- [O2] The 1st International Workshop on Lightweight Blockchain for Edge Intelligence and Security (LightChain 2019)
- [O3] The 4<sup>th</sup> IEEE International Smart Cities Conference (ISC2 2018)
- [O4] The 7th IEEE International Symposium on Cloud and Service Computing (IEEE SC2 2017)
- [O5] The ACM Conference on Computer and Communications Security (CCS 2015).
- [O6] The 2015 Global Conference on Information Technology, Computing, and Applications (GlobalIT 2015), Las Vegas, USA, January 12 – 14, 2015.
- [O7] The 2<sup>nd</sup> International Workshop on Advanced Technologies of Cloud Computing (WATCC'2014), Minneapolis, MN, USA, September 9-12, 2014.
- [O8] The 2013 International Workshop on Cloud Enhanced Information Fusion (CloudFusion'2013), Gwangju, Korea, September 4-6, 2013.
- [O9] The International Workshop on Advanced Technologies of Cloud Computing (WATCC'2013), Lyon, France, October 04, 2013.
- [O10] The 8<sup>th</sup> FTRA International Conference on Future Information Technology (FutureTech 2013), Gwangju, Korea, September 4-6, 2013.
- [O11] The 4<sup>th</sup> International Workshop on Security in Cloud Computing (CloudSec'2012), Pittsburgh, PA. USA, September 12, 2012.
- [O12] The 9<sup>th</sup> IFIP International Conference on Network and Parallel Computing (NPC 2012), Gwangju, Korea,

Sept. 6-8, 2012.

- [O13] The 2012 FTRA International Conference on Mobile, Ubiquitous and Intelligent Computing (MUSIC 2012), Vancouver, Canada, June 26 – 28, 2012.
- [O14] The 3<sup>rd</sup> International Workshop on Security in Cloud Computing (CloudSec'2011), Taipei, Taiwan, September, 2011.
- [O15] The 2<sup>nd</sup> International Workshop on Security in Cloud Computing (SCC'2010), San Diego, California, USA, Sept. 2010.
- [O16] The 2009 International Workshop on Security in Cloud Computing (SCC'09), Chengdu, China, Dec. 2009.
- [O17] The 2009 International Workshop on Secure Multimedia Communication and Services (SECMCS'09), Wuhan, China, Nov. 2009.
- [O18] The 2009 International Conference on Multimedia Information Networking and Security (MINES 2009), Wuhan, China, Nov. 2009.
- [O19] ChinaCom'08 Workshop on MULTimedia Security In Communications (MUSIC'08), Hangzhou, China, Aug. 2008.

**Conference Chairs:**

- [H1] Track Co-Chair, IoT and Smart X Services Track, IEEE ISC2 2021
- [H2] Track Co-Chair, Multimedia and Real-Time Networking (MRN) Track, IEEE ICCCN 2020
- [H3] Co-Chair, BLESS 2018, 2019, 2020, 2021
- [H4] Co-Chair, LightChain 2019
- [H5] Workshop Co-Chair, KC ISC2 2018
- [H6] Program Co-Chair, FutureTech 2016
- [H7] Track Co-Chair, ICA3PP 2015
- [H8] Program Co-Chair, CSA-14
- [H9] Publicity Co-Chair, FutureTech 2014
- [H10] Program Vice Co-Chair, IEEE/IFIP EUC 2013, Reconfigurable Computing Systems and Applications Track
- [H11] General Co-Chair, CloudFusion'2013
- [H12] General Co-Chair, WATCC-2013
- [H13] Workshop Co-Chair, FutureTech-2013
- [H14] Program Co-Chair, WTA'2012
- [H15] TPC Chair, CloudSec'2012.
- [H16] Program Co-Chair, NPC-2012
- [H17] Program Chair, MUSIC 2012
- [H18] TPC Chair, CloudSec'2011.
- [H19] Publicity Chair, F2GC 2010, F2GC 2011.
- [H20] TPC Chair, SCC'2010.
- [H21] Symposium Co-Chair, IEEE WCNIS2010 "Communication and Information Security Symposium".
- [H22] Publicity Chair, MINES'2010.
- [H23] General Chair, SCC'09.
- [H24] Publicity Chair, SECMCS'09.
- [H25] Publicity Chair, MINES'09.

[H26] TPC Chair, MUSIC'08.

**Conference Technical Program Committee (TPC):**

- [M1] IEEE INFOCOM 2016, 2017, 2018, 2019, 2020, 2021, 2022.
- [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 ~ 2022)
  - Mobile and Wireless Networks Symposium (MWN, 2014 ~ 2020)
  - 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)
  - Ad-hoc and Sensor Networking Symposium (AHSN, 2010 ~ 2020)
  - Communication & Information System Security Symposium (CISS, 2008 ~ 2020)
  - Communications Software, Services, and Multimedia Apps (CSSMA 2016 ~ 2020)
  - Wireless Networking Symposium (WN, 2011 ~ 2020)
  - Cognitive Radio and Network Symposium (CogRN 2013, 2014)
- [M4] The 11<sup>th</sup> International Workshop on Security, Privacy, Trust, and Machine Learning for IoT (IoTSPT-ML 2021)
- [M5] The International Workshop on Smart City Communication and Networking (SmartCityCom 2019, 2020, 2021)
- [M6] The 2019 IEEE International Conference on Blockchain (Blockchain-2019)
- [M7] The First International Workshop on Blockchain Meets Computer Vision & AI, in conjunction with CVPR 2019
- [M8] The IEEE International Smart Cities Conference (ISC2 2018, 2019)
- [M9] The 8<sup>th</sup> IEEE International Conference on Cloud Networking (CloudNet) (2019)
- [M10] The IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2010 ~ 2019)
- [M11] The 18<sup>th</sup> IEEE International Conference on Communication Technology (IEEE ICCT 2018)
- [M12] The 2018 Symposium on Foundations and Applications of Blockchain (FAB'18)
- [M13] The IFIP International Conference on New Technologies, Mobility and Security (NTMS, 2008 ~ 2019)
- [M14] The 6th International Workshop on Mobile Applications 2019 (MobiApps 2019)
- [M15] The EAI International Conference on Security and Privacy in Communication Networks (SecureComm 2017, 2018, 2019)
- [M16] The International Conference on Digital Image and Signal Processing (DISP'19)
- [M17] The 9<sup>th</sup> International Conference on Complex Systems (ICCS 2018)
- [M18] The International Workshop on Distributed Ledger of Things (DLot 2018, 2019)
- [M19] Wireless Days 2019, Track 6: IoT and Smart X: Networking, Cloudification and Services
- [M20] The 7th IEEE International Symposium on Cloud and Service Computing (IEEE SC2 2017)
- [M21] The IEEE International Conference on Big Data and Cloud Computing (IEEE BDCloud 2014 ~ 2016)
- [M22] IEEE INFOCOM Workshop on Mobile Cloud Computing, 2014, 2015
- [M23] IEEE INFOCOM Workshop on Integrating Edge Computing, Caching, and Offloading in Next Generation



Networks (IECCO 2017, 2018, 2019)

- [M24] The IEEE International Performance Computing and Communications Conference (IPCCC 2015, 2016, 2017)
- [M25] The 14<sup>th</sup> International Symposium on Pervasive Systems, Algorithms, and Networks (I-SPAN 2017)
- [M26] The 2017 International Conference on Wireless Communications & Signal Processing, Ad Hoc and Sensor Networking Symposium, Wireless Networking Symposium (WCSP 2017 – AHSN, WNS)
- [M27] The SPIE Defense & Security, Sensors and Systems for Space Applications X, 2017, 2018
- [M28] The First Northeast Regional Conference on Complex Systems (NERCCS 2018)
- [M29] The Twelfth International Conference on Wireless and Mobile Communications (ICWMC 2016)
- [M30] The International Conference on Computing, Networking and Communications
  - Cloud Computing and Networking Symposium (CLD 2012)
  - Communications and Information Security Symposium (CIS 2012)
- [M31] The 10th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (IEEE MASS 2013)
- [M32] The IEEE International Conference on Advanced Information Networking and Applications (AINA-2012, 2013), Track 10 (Multimedia and Social Networking)
- [M33] The IEEE Asia Pacific Cloud Computing Congress 2012 (AP-Cloud)
- [M34] The 11<sup>th</sup> International Wireless Communications & Mobile Computing Conference (IWCMC 2015), Wireless Networking Symposium
- [M35] The 2014 International Conference on Internet of Vehicles (IOV 2014)
- [M36] The International Conference on Risks and Security of Internet and Systems (CrisIS 2014 ~ 2017)
- [M37] 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
- [M38] The ACM/SIGSIM/SCS Annual Simulation Symposium (ANSS, 2009 ~ 2012)
- [M39] IEEE International Wireless Communications and Mobile Computing Conference
  - Computer and Network Security Symposium (CNS), 2008
  - Wireless Network Symposium (WNS), 2014
- [M40] The IEEE/IFIP International Symposium on Trusted Computing and Communications (TrustCom 2009 ~ 2015)
- [M41] The IEEE International Conference on High Performance Computing and Communications (HPCC'2010, 2014)
- [M42] The IEEE Consumer Communications and Networking Conference (CCNC 2008, 2009, 2010, 2011, 2012)
- [M43] The Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2011, 2012)
- [M44] The IEEE International Workshop on Cloud Security Auditing (CSAW 2013, 2014)
- [M45] IEEE Wireless Communications & Networking Conference (WCNC 06, 07, 08, 14, 15)
- [M46] The ACM/IEEE/IFAC/TRB International Conference on Connected Vehicles (ICCVE 2012, 2013, 2014, 2015)
- [M47] The International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2016, 2017)
- [M48] The IEEE 8th International Symposium on Embedded Multicore/Many-core System-on-Chip (MCSoc-14)
- [M49] The 2014 International Conference on Platform Technology and Service (PlatCon 14)
- [M50] The International Conference on Selected Topics in Mobile & Wireless Networking (iCOST, 2011, 2012)

- [M51] The First IEEE International Conference on Communications in China: Communications QoS and Reliability (ICCC'12 - CQR)
- [M52] International Conference on Cloud and Green Computing (CGC 2011, 2012)
- [M53] The International workshop on Data Center Performance (DCPerf 2011 ~ 2013)
- [M54] The 1<sup>st</sup> International Workshop on Enterprise Cloud Computing: Solutions and Strategies (ECCSS 2012)
- [M55] The International Conference on Security in Computer Networks and Distributed Systems (SNDS-2012)
- [M56] The IEEE International Workshop on Wireless and Sensor Network Security (WSNS, 2008 ~ 2011)
- [M57] The 2012 International Workshop on Mobile Cloud and Ubiquitous Computing (Mobi-Cloud 2012)
- [M58] The IEEE International Conference on Utility and Cloud Computing (UCC 2010, 2011)
- [M59] The 3<sup>rd</sup> IEEE International Symposium on UbiSafe Computing (UbiSafe 2011)
- [M60] The International Conference on Computing, Networking and Communications, (ICNC – ISA 2013, 2014, 2015, MCC 2015, MCC 2018).
- [M61] The FTRA International Symposium on Advances in Cryptography, Security and Applications for Future Computing (ACSA 2009 ~ 2012)
- [M62] The 2012 International Conference on Wireless Communications & Signal Processing, Wireless Networking Symposium (WCSP 2012 - WNS)
- [M63] The First IEEE International Conference on Communications in China: Wireless Networking and Applications (ICCC'12 - WNA)
- [M64] The International Conference on Frontier of Computer Science and technology (FCST 2009, 2011, 2012)
- [M65] The IEEE Workshop on Grid and P2P Systems and Applications (ICCCN GridPeer 2009, 2010, 2011)
- [M66] The International Workshop on Sustainable High Performance Cloud Computing (SHPCC 2011, SHPCloud-2012)
- [M67] The Annual International Conference on Mobile Communications, Networking and Applications 2011 (MobiCONA 2011)
- [M68] The 9th ACS/IEEE International Conference on Computer Systems and Applications (ICCSA 2011)
- [M69] The 14th IEEE International Conference on Computational Science (CSE 2011)
- [M70] The International Conference on Communications and Mobile Computing (CMC 2009, 2010, 2011)
- [M71] The 2011 International Conference on Cloud and Service Computing (CSC 2011)
- [M72] The International Workshop on Secure Multimedia Communication and Services (SECMCS 2009, 2010, 2011)
- [M73] The 2011 International Workshop on Computing and Communications (CC-11)
- [M74] The International Conference and workshop on Current Trends in Information Technology (CTIT 2009, 2011)
- [M75] the 6th International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP 2010)
- [M76] The 4<sup>th</sup> International Workshop on Localized Algorithms and Protocols for Wireless Sensor Networks (LOCALGOS 2010)
- [M77] CHINACOM Wireless Communications and Networking Symposium (CHINACOM WCN 2009, 2010)
- [M78] The European Conference on Wireless Sensor Networks (EWSN 2007, 2010)
- [M79] The 2<sup>nd</sup> IEEE International Workshop on Information and Data Assurance (WIDA'09)
- [M80] The IEEE International Workshop on Security and Privacy in Wireless and Mobile Computing, Networking and Communications (SecPri\_WiMob 2008, 2009)
- [M81] IEEE Workshop on Web Privacy and Trust (held with IEEE/WIC/ACM International Conference on Web

Intelligence, 2009)

- [M82] The 4<sup>th</sup> International Symposium on Information Security (OTM IS 2009)
- [M83] The Workshop on Advanced Wireless Broadband Networks (AWBN'09), held in conjunction with MobiQuitous'09.
- [M84] The International Conference on Security and Cryptography (SECRYPT 2009)
- [M85] The 3<sup>rd</sup> International Workshop on Privacy-Aware Location-based Mobile Services (PALMS'09)
- [M86] The 2009 SCS Symposium on Simulation of System Security (SSSS'09)
- [M87] The 1<sup>st</sup> International Conference on Network and Service Security (N2S 2009)
- [M88] Workshop on Radio Resource Management in Wireless Mesh Networks 2008 (RRMinMesh'08)
- [M89] The 14<sup>th</sup> Asia-Pacific Conference on Communications, 2008 (APCC'08)
- [M90] Book chapter review: Encyclopedia of Data Warehousing and Mining, 2<sup>nd</sup> Ed., (2007)
- [M91] European Conference on Complex Systems 2009 (ECCS'09)
- [M92] IEEE 28<sup>th</sup> International Conference on Distributed Computing Systems, 2008 (ICDCS'08)
- [M93] IEEE 14<sup>th</sup> 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)