

FENG WANG

School of Mathematical and Natural Sciences
New College of Interdisciplinary Arts and Sciences
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ACADEMIC EMPLOYMENT

TITLE	ORGANIZATION	PERIOD
Professor	School of Mathematical and Natural Sciences Arizona State University	07/2019-Present
Associate Professor	School of Mathematical and Natural Sciences Arizona State University	08/2013 – 06/2019
Assistant Professor	School of Mathematical and Natural Sciences Arizona State University	08/2007 - 07/2013
Affiliated Faculty	ASU Global Security Initiative	02/2015 - Present
Visiting Scholar	Department of Computer Science City University of Hong Kong	Summer 2012 and 2014
Research Assistant & Teaching Assistant	Department of Computer Science & Engineering University of Minnesota Twin Cities	12/2001 - 12/2005

INDUSTRY EMPLOYMENT

TITLE	ORGANIZATION	PERIOD
Sr. Firmware Engineer	Seagate Technology	01/2006 - 06/2007
Department Manager	Beida Jadebird Science and Technology Company	08/1999 - 06/2001

EDUCATIONAL BACKGROUND

DEGREE	FIELD AND UNIVERSITY	MONTH/YEAR
Ph.D.	Computer Science, University of Minnesota Twin Cities Thesis Title: <i>Survivability Issues in Wireless Networks</i> Thesis Advisor: Ding-Zhu Du	12/2005
M.S.	Computer Science, Peking University Thesis Title: <i>Secure Mail Gateway</i> Thesis Advisor: Zhong Chen	07/1999
B.S.	Computer Science, Wuhan University	07/1996

RESEARCH INTERESTS

My research revolves around optimization, modeling, and analysis of various networks, including online social networks, home networks, wireless sensor networks, Internet backbone, and data center networks. I conduct research on 1) *theoretical advancement* in effective graph-based algorithms and mathematical models for network optimization, mining network traffic behavior, and characterizing, revealing, and interpreting user interaction in social media; 2) *empirical data analysis and prototype implementation of systems* in the domains of latent community interpretation and information diffusion over social media, flu surveillance for public health, and security monitoring and anomaly detection for home networks.

HONORS AND AWARDS

2018	ASU New College Outstanding Research Award
2014	Best Paper Award, International Conference on Wireless Algorithms, Systems, and Applications
2013	Nominee for the ASU Young Investigator Award
2012	Best Paper Runner-Up Award, IEEE ICDCS Workshop on Hot Topics in Peer-to-Peer Computing and Online Social Networking

PUBLICATIONS

A. BOOK UNDER CONTRACT

1. Haiyan Wang, **Feng Wang**, and Kuai Xu, “Spatio-temporal Modeling of Online Social Networks: A Partial Differential Equation Approach,” under contract with *Springer* and currently under revision, 2018.

B. JOURNAL ARTICLES

1. Hazel Kwon, Monica Chadha, **Feng Wang**, “Proximity and Networked News Public: Structural Topic Modeling of Global Twitter Conversations about the 2017 Quebec Mosque Shooting”, *International Journal of Communication*, vol. 13, pp. 1-23, June 2019.
2. Paul Wagenseller, **Feng Wang**, Weili Wu, “Size Matters: A Comparative Analysis of Community Detection Algorithms”, *IEEE Transactions on Computational Social Systems*, vol. 5, no. 4, pp. 951-960, December 2018.
3. **Feng Wang**, Ken Orton, Paul Wagenseller, and Kuai Xu, “Towards Understanding Community Interests with Topic Modeling,” *IEEE Access*, vol. 6, pp. 24660-24668, 2018.
4. Hongping Hu, Haiyan Wang, **Feng Wang**, Daniel Langley, Adrian Avram, and Maoxing Liu, “Prediction of Influenza-like Illness based on the Improved Artificial Tree Algorithm and Artificial Neural Network,” Scientific Report, vol. 8, no.1, 2018
5. Kuai Xu, **Feng Wang**, and Xiaohua Jia, “Secure the Internet, One Home at a Time,” *Security and Communication Networks*, vol. 9, no. 16, pp.3821-3832, November 2016.

6. **Feng Wang**, Haiyan Wang, Kuai Xu, Ross Raymond, Jamie Chou, Shaun Fuller, and Anton Debruyne, “Regional. Level Influenza Study with Geo-Tagged Twitter Data,” *Journal of Medical Systems*, vol. 40, no. 180, August 2016
7. Guowei Dai, Ruyun Ma, Haiyan Wang, **Feng Wang**, and Kuai Xu. “Partial Differential Equations with Robin Boundary Condition in Online Social Networks,” *Discrete and Continuous Dynamical Systems - Series B*, vol. 20, no. 6, August 2015.
8. Kuai Xu, **Feng Wang**, and Lin Gu, “Behavior Analysis of Internet Traffic Via Bipartite Graphs and One-Mode Projections,” *IEEE/ACM Transactions on Networking*, vol. 22, no. 3, June 2014.
9. Kuai Xu, **Feng Wang**, Lin Gu, Jianhua Gao, and Yaohui Jin, “Characterizing Home Network Traffic: An Inside View,” *Journal of Personal and Ubiquitous Computing*, Vol. 18, No. 4, April 2014.
10. Kuai Xu, **Feng Wang**, and Haiyan Wang, “Lightweight and Informative Traffic Metrics for Data Center Monitoring,” *Journal of Network and Systems Management*, vol. 20, no. 2, pp. 226-243, June 2012.
11. Wei Zhang, Weili Wu, **Feng Wang**, and Kuai Xu, “Positive Influence Dominating Sets in Power-Law Graphs,” *Social Network Analysis and Mining*, vol. 2, no. 1, pp. 31-37, March 2012.
12. **Feng Wang**, Hongwei Du, Erika Camacho, Kuai Xu, Wonjun Lee, Yan Shi, and Shan Shan, “On Positive Influence Dominating Sets in Social Networks,” *Theoretical Computer Science*, vol. 412, no 31, pp. 265-269, January 2011
13. Kuai Xu, **Feng Wang**, Supratik Bhattacharyya, and Zhi-Li Zhang, “Real-time Behavior Profiling for Network Monitoring,” *International Journal of Internet Protocol Technology*, vol. 5, no. 1/2, pp. 65 – 80, April 2010.
14. **Feng Wang**, Erika Camacho, and Kuai Xu, “Positive Influence Dominating Set in Online Social Networks,” *Lecture Notes in Computer Science*, vol. 5573, pp. 313-321, June 2009..
15. **Feng Wang**, My T. Thai, and Ding-Zhu Du, “On the Construction of 2-Connected Virtual Backbone in Wireless Networks,” *IEEE Transactions on Wireless Communications*, vol. 8, no. 3, pp.1230-1237, March 2009
16. Chen Wang, My T. Thai, Yingshu Li, **Feng Wang**, and Weili Wu, “Optimization Scheme for Sensor Coverage Scheduling with Bandwidth Constraints,” *Optimization Letters*, vol. 3, no. 1, pp. 63-75, January 2009.
17. **Feng Wang**, My T. Thai, Yingshu Li, Xiuzhen Cheng, and Ding-Zhu Du, “Fault Tolerant Topology Control for One-to-All and All-to-One Communications in Wireless Networks,” *IEEE Transactions on Mobile Computing*, vol. 7, no. 3, pp. 322-331, March 2008.
18. My T. Thai, **Feng Wang**, Hongwei Du, and Xiaohua Jia, “Coverage Problems in Wireless Sensor Networks: Designs and Analysis,” *International Journal of Sensor Networks, Special Issue on Coverage Problems in Sensor Networks*, vol. 3, no. 3, pp. 191-200, June 2008.
19. Ping Deng, Weili Wu, **Feng Wang**, and Ty Znati, “Improved Construction for Pooling

Design,” *Journal of Combinatorial Optimization*, vol. 15, no. 1, pp. 123-126, January 2008.

20. **Feng Wang**, Hongwei Du, Xiaohua Jia, Ping Deng, Weili Wu, and David MacCallum, “Non-Unique Probe Selection and Group Testing,” *Theoretical Computer Science*, vol. 381, no. 1-3, pp. 29-32, August 2007.
21. My T. Thai, **Feng Wang**, Dan Liu, Shiwei Zhu, and Ding-Zhu Du, “Connected Dominating Sets in Wireless Networks with Different Transmission Range,” *IEEE Transactions on Mobile Computing*, vol. 6, no. 7, pp. 721-730, July 2007.
22. **Feng Wang**, Kuai Xu, My T. Thai, and Ding-Zhu Du, “Fault Tolerant Topology Control for One-to-All Communication in Symmetric Wireless Networks,” *International Journal of Sensor Networks*, vol. 2, no. 3/4, pp. 163-168, June 2007.
23. Yingshu Li, My T. Thai, **Feng Wang**, and Ding-Zhu Du, “On the Construction of a Strongly Connected Broadcast Arborecence with Bounded Transmission Delay,” *IEEE Transactions on Mobile Computing*, vol.5, no.10, pp.1460-1470, October 2006.
24. Yingshu Li, My T. Thai, **Feng Wang**, Chih-Wei Yi, Pengjun Wan, and Ding-Zhu Du, “On Greedy Construction of Connected Dominating Sets in Wireless Networks,” *Wireless Communications and Mobile Computing, Special Issue on Ad Hoc Networks*, vol. 5, no. 88, pp. 927-932, December 2005.
25. Guolong Jiang, Weili Wu, **Feng Wang**, and My T. Thai, “An Approximation for Minimum Multicast Route in Optical Networks with Non-Splitting Nodes,” *Journal of Combinatorial Optimization*, vol. 10, no. 4, pp. 414-419, 2005.
26. Hongwei Du, Xiaohua Jia, **Feng Wang**, My T. Thai, and Yingshu Li, “A Note on Optical Networks with Nonsplitting Nodes,” *Journal of Combinatorial Optimization*, vol. 10, no. 2, pp. 199-202, 2005.

C. PEER REVIEWED CONFERENCE AND WORKSHOP PAPERS

1. Kuai Xu, Yinxin Wan, Guoliang Xu, **Feng Wang**, Multidimensional Behavioral Profiling of Internet-of-Things in Edge Networks, IEEE/ACM IEEE/ACM International Symposium on Quality of Service (IWQoS) , 2019.
2. Chengan Du, Yunpeng Zhao, **Feng Wang**, On Consistency of Graph-based Semi-supervised Learning, The 39th IEEE International Conference on Distributed Computing Systems (ICDCS), 2019.
3. Paul Wagenseller, Adrian Avram, Eric Jiang, **Feng Wang**, and Yunpeng Zhao, Location Prediction with Communities in User Ego-Net in Social Media, , IEEE International Conference on Communications (ICC): SAC Social Networking Track, 2019.
4. Kuai Xu, **Feng Wang**, Haiyan Wang, and Bo Yang, “A First Step Towards Combating Fake News Over Online Social Media,” accepted by *International Conference on Wireless Algorithms, Systems, and Applications (WASA)*, June 2018.
5. Hazel Kwon, Monica Chadha, and **Feng Wang**, “Proximity and networked responsibility framing of anti-Muslim crime news: Structural topic modeling of Twitter conversations on the Quebec Shooting in 2017,” *International Communication Association*, May 2018.

6. **Feng Wang** and Ken Orton, “Community Verification with Topic Modeling,” in *Proceedings of International Conference on Wireless Algorithms, Systems, and Applications (WASA)*, August 2017.
7. Kuai Xu, **Feng Wang**, and Xiaohua Jia, “Secure the Internet, One Home at a Time,” in *Proceedings of IEEE Global Communications Conference (GLOBECOM)*, December 2015.
8. Kuai Xu, **Feng Wang**, Xiaohua Jia, and Haiyan Wang, “The Impact of Sampling on Big Data Analysis of Social Media: A Case Study on Flu and Ebola,” in *Proceedings of IEEE Global Communications Conference (GLOBECOM)*, December 2015.
9. Jaime Chon, Ross Raymond, Haiyan Wang, and **Feng Wang**, “Modeling Flu Trends with Real-Time Geo-Tagged Twitter Data Streams,” in *Proceedings of International Conference on Wireless Algorithms, Systems, and Applications (WASA)*, August 2015.
10. Kuai Xu, **Feng Wang**, Richard Egli, Aaron Fives, Russell Howell, and Odayne McIntyre, “Object-Oriented Big Data Security Analytics: A Case Study on Home Network Traffic,” in *Proceedings of International Conference on Wireless Algorithms, Systems, and Applications (WASA)*, Harbin, China, June 2014
11. Kuai Xu, Lin Gu, and **Feng Wang**, “Monitoring Home Network Traffic via Programmable Routers,” in *Proceedings of IEEE Global Communications Conference (GLOBECOM)*, December 2013.
12. Chuan Peng, Kuai Xu, **Feng Wang**, and Haiyan Wang, “Predicting Information Diffusion Initiated from Multiple Sources in Online Social Networks,” in *Proceedings of International Symposium on Computational Intelligence and Design*, October 2013.
13. **Feng Wang**, Haiyang Wang, Kuai Xu, Jianhong Wu, and Xiaohua Jia, “Characterizing Information Diffusion in Online Social Networks with Linear Diffusive Model,” in *Proceedings of International Conference on Distributed Computing Systems (ICDCS)*, July 2013.
14. Kuai Xu, **Feng Wang**, Lin Gu, Jianhua Gao, and Yaohui Jin, “Characterizing Home Network Traffic: An Inside View,” in *Proceedings of International Conference on Wireless Algorithms, Systems, and Applications (WASA)*, August 2012.
15. **Feng Wang**, Haiyan Wang, and Kuai Xu, “Diffusive Logistic Model Towards Predicting Information Diffusion in Online Social Networks,” in *Proceedings of International Workshop on Hot Topics in Peer-to-Peer Computing and Online Social Networking (HotPOST)*, June 2012.
16. **Feng Wang**, Kuai Xu, and Haiyan Wang, “Discovering Shared Interests in Online Social Networks,” in *Proceedings of IEEE ICDCS Workshop on Hot Topics in Peer-to-Peer Computing and Online Social Networking (HotPOST)*, June 2012.
17. Kuai Xu, **Feng Wang**, and Lin Gu, “Profiling-as-a-Service in Multi-Tenant Cloud Computing Environments,” in *Proceedings of IEEE ICDCS Workshop on Security and Privacy in Cloud Computing (SPCC)*, June 2012.
18. Kuai Xu, **Feng Wang**, and Michael Lee, “HomeTPS: Uncovering What is Happening in Home Networks,” in *Proceedings of IEEE Consumer Communications and Networking Conference (Demo)*, January 2012.

19. Kuai Xu and **Feng Wang**, “Behavioral Graph Analysis of Internet Applications,” in *Proceedings of IEEE Global Communications Conference (GLOBECOM)*, December 2011.
20. Kuai Xu, **Feng Wang**, and Lin Gu, “Network-Aware Behavior Clustering of Internet End Hosts,” in *Proceedings of IEEE International Conference on Computer Communications (INFOCOM)*, April 2011.
21. **Feng Wang** and Jianhua Gao, “Behavior Monitoring Framework in Large-Scale Wireless Sensor Networks,” in *Proceedings of International Performance Computing and Communications Conference (IPCCC)*, December 2010.
22. Kuai Xu, **Feng Wang**, and Bin Wang, “Behavior Profiling and Analysis in Wireless Home Networks,” in *Proceedings of IEEE Consumer Communications & Networking Conference (CCNC)*, January 2010.
23. Kuai Xu and **Feng Wang**, “Cooperative Monitoring for Internet Data Centers,” in *Proceedings of IEEE International Performance Computing and Communications Conference (IPCCC)*, December 2008.
24. Yiwei Wu, **Feng Wang**, My T. Thai, and Yingshu Li, “Constructing k-Connected m-Dominating Sets in Wireless Sensor Networks,” in *Proceedings of Military Communications Conference (MILCOM 2007)*, October 2007.
25. Chen Wang, My T. Thai, Yingshu Li, **Feng Wang**, and Weili Wu, “Minimum Coverage Breach and Maximum Network Lifetime in Wireless Sensor Networks,” in *Proceedings of IEEE Global Communications Conference (GLOBECOM)*, November 2007.
26. Kuai Xu, **Feng Wang**, Supratik Bhattacharyya, and Zhi-Li Zhang, “A Real-time Network Traffic Profiling System,” in *Proceedings of International Conference on Dependable Systems and Networks (DSN)*, 2007.
27. My T. Thai, Yingshu Li, **Feng Wang**, and Ding-Zhu Du, “ $O(\log n)$ -Localized Algorithms on the Coverage Problem in Wireless Sensor Networks,” in *Proceedings of IEEE International Performance Computing and Communications Conference (IPCCC)*, 2007.
28. **Feng Wang**, Manki Min, Yingshu Li, and Ding-Zhu Du, “On the Construction of Stable Virtual Backbones in Mobile Ad-Hoc Networks,” in *Proceedings of IEEE International Performance Computing and Communications Conference (IPCCC)*, April 2005.
29. Manki Min, **Feng Wang**, Ding-Zhu Du, and Panos M. Pardalos, “A Reliable Virtual Backbone Scheme in Mobile Ad Hoc Networks,” in *Proceedings of IEEE International conference on Mobile Ad Hoc and Sensor Systems (MASS)*, October 2004.

D. BOOK CHAPTERS

1. **Feng Wang**, Weili Wu, and Ding-Zhu Du, “Greedy Approximation Algorithms,” *Encyclopedia of Algorithms*, Minyang Kao (ed.), *Springer*, 2008.
2. Xiuzhen Cheng, **Feng Wang**, and Ding-Zhu Du, “Connected Dominating Set,” in *Encyclopedia of Algorithms*, Minyang Kao (ed.), *Springer*, 2008.
3. Ping Deng, Zhen Liu, Weili Wu, and **Feng Wang**, “Complexity of Pooling Designs,” *DIMACS Book Series “Group Testing and Applications”*, Ding-Zhu Du and Frank

Hwang (eds.), *Springer*, 2008.

GRANT ACTIVITY

A. EXTERNAL FUNDED GRANTS

1. **Feng Wang**, “Securing Internet of Things in Smart Homes”, Army Education Outreach Program, Research & Engineering Apprentice Program, \$4000, 2018-2019.
2. Kuai Xu and **Feng Wang (Co-PI)**, “CSR: Small: RUI: Towards Secure Home Networks,” *National Science Foundation*, submitted in November 2017, \$382,751, 10/2018-09/2021.
3. Haiyan Wang, **Feng Wang (Co-PI)**, and Kuai Xu, “ATD: An Integrated Framework of Network Theory, Data Mining and Partial Differential Equation for Early Detection of Epidemic Outbreaks,” *National Science Foundation*, \$171,570, 08/2017 - 07/2020.
4. **Feng Wang (PI)**, Haiyan Wang, and Kuai Xu, “NeTS:Small:RUI: Dynamic Mathematical Modeling Towards Understanding Information Diffusion in Online Social Networks,” *National Science Foundation*, \$250,000, 09/2012 - 08/2016.
5. Xiaohua Jia, **Feng Wang (Co-PI)**, and Haiyan Wang, “Minimal Cost and Time-sensitive Information Diffusion in Online Social Networks,” *Hong Kong Research Grant Council, General Research Fund*, HK \$645,500, 01/2014 - 12/2016.

B. INTERNAL FUNDED GRANTS

1. **Feng Wang (PI)**, “Dynamic Mathematical Modeling of Information Diffusion in Online Social Networks,” *ASU New College Scholarship, Research, Creative Activities (SRCA) Grant*, \$5,000, 07/2012 - 06/2013.
2. **Feng Wang (PI)**, “Spreading Influence in Online Social Networks with Positive Influence Dominating Set,” *ASU New College Scholarship, Research, Creative Activities (SRCA) Grant*, \$5,000, 07/2011 - 06/2012.
3. Kuai Xu and **Feng Wang (Co-PI)**, “Network Security Monitoring and Analysis for Cloud Computing,” *ASU New College Scholarship, Research, Creative Activities (SRCA) Grant*, \$10,000, 07/2009 - 06/2010.
4. **Feng Wang (PI)**, “Fast Recovery of Fault Tolerant Virtual Backbone,” *ASU New College Scholarship, Research, Creative Activities (SRCA) Grant*, \$5,000, 07/2008 - 06/2009.

INVITED COLLOQUIUM AND RESEARCH TALKS

1. “Social Media Analysis Framework, Design, Implementation, and Applications,” research talk given at Data Science Seminar at Mathematical and Natural Sciences, ASU, October 2016.
2. “Dynamic Mathematical Modeling of Information Diffusion in Online Social Networks,” colloquium talk given at the Department of Computer Science, Wuhan University, July 2016.
3. “Regional Level Influenza Study with Geo-Tagged Twitter Data,” colloquium talk given at Department of Computer Science and Engineering, Shanghai Jiao Tong University,

June 2016.

4. “Dynamic Mathematical Modeling of Information Diffusion in Online Social Networks,” colloquium talk given at the School of Electrical, Computer and Energy Engineering, ASU, November 2014.
5. “Dynamic Mathematical Modeling of Information Diffusion in Online Social Networks,” research talk given to the network and information security group at the Department of Computer Science, Peking University, August 2012.
6. “Dynamic Mathematical Modeling of Information Diffusion in Online Social Networks,” colloquium talk given at the Department of Computer Science, City University of Hong Kong, June 2012.
7. “Diffusive Logistic Model Towards Predicting Information Diffusion in Online Social Networks,” research talk given to a networking research group at the Department of Computer Science, George Washington University, November 2011.
8. “Dominating Set and its Applications in Wireless Networks and Social Networks,” colloquium talk given at the Department of Computer Science, University of Texas at Dallas, October 2010.

STUDENT POSTERS

1. Paul Wagenseller, Adrian Avram, Daniel Langley, “Spatial-Temporal Flu Prediction Using Community Regions in Commuter Network,” Spring 2018. *This work won the First Place at ASU New College Undergraduate Student Research Expo in April 2018.*
2. Adrian Avram, “Geo-tagging Twitter User based on Communities in the Ego-Network,” Spring 2018.
3. Daniel Langley, “Building a Reliable Keyword Based Tweet Collecting, Cleaning, and Reporting Tool,” Spring 2018.
4. Paul Wagenseller, “Size Matter: Community Detection Algorithms Design and Evaluation,” Fall 2017.
5. Daniel Langley, “Automated Twitter Collection, Analysis & Visualization System,” Spring and Fall 2017.
6. Ken Orton, “Community Verification with Topic Modeling,” Spring 2017.
7. Edgar Loza, Edgar Aguiniga, “Wireless Home Network: Coverage & Security, Low cost implementation with Raspberry Pi,” Spring 2017.
8. Edgar Aguiniga, “Mesh Networking with Raspberry Pi,” Spring 2017.
9. Juan Toledo, “Wi-Fi Troubleshooting App Development in Android,” Fall 2016.
10. Jamie Chon, Anton Debruyne, Ross Raymond, Kenneth Orton, Kevin Wong, “Collecting, Sampling, and Clustering Twitter Users,” Fall 2015.
11. Kyle Brown, “Geo-Based Twitter Flu Data Analysis and Modeling,” Fall 2015.
12. Anton Debruyne, Shaun Fuller, “Community Detection and Verification in Large Scale Social Media,” Fall 2015..
13. Caleb Davis, Sandra Ramirez, Daniel Whitmore, “How Does News Diffuse Through Twitter,” Spring 2013. *This work won the First Place at ASU New College Undergraduate Student Research Expo in April 2014.*

14. Chris Stutzman, "Securing Enterprise-Level WLAN with Radius Server," NCUIRE research assistant award, Spring 2012.
15. Stephen Calvert, "Vulnerability of Wireless Home Networks Hacking into WPA," Spring 2011.
16. Jonathan Rafacz, "Neeley Air Density Gauge," Spring 2011.
17. Jonathan Manget, "Developing an Interactive and Networked Game on Android," Spring 2010. *This work won the Second Place at ASU New College Undergraduate Student Research Expo in April 2010.*
18. Keith Cumiford, "Configurable Network Design and Testing Lab," Spring and Fall 2009.
19. David Boston, "An Interactive Web GUI for Virtual Backbone in Wireless Networks," Fall 2008.

SERVICES

A. PROFESSIONAL SERVICES

A.1 JOURNAL EDITORSHIP

Associate Editorial Board of Computational Social Networks, 2013 - Present

Associate Editor of Discrete Mathematics, Algorithms and Applications (DMAA), 2010-2014

A.2 PANELIST

National Science Foundation, NeTS Panel, 2015

National Science Foundation, BIGDATA Panel, 2012

National Science Foundation, CRI Panel, 2008

A.3 CONFERENCE ORGANIZING COMMITTEE

Publicity Chair, IEEE International Performance Computing and Communications Conference (IPCCC), 2018

A.4 TECHNICAL PROGRAM COMMITTEE

IEEE International Conference on Distributed Computing Systems (ICDCS), 2019

IEEE International Conference on Computer Communications (INFOCOM), 2019

International Conference on Computing and Network Communications (CoCoNet), 2018

IEEE International Performance Computing and Communications Conference (IPCCC), 2017

IEEE International Conference on Computer Communications (INFOCOM), 2014

IEEE Global Communications Conference (GLOBECOM), 2014

IEEE International Conference on Computer Communications (INFOCOM), 2013

IEEE Global Communications Conference (GLOBECOM), 2013

International Conference on Computing, Networking and Communications (ICNC), 2013

Workshop on Computational Social Networks (CSoNet), 2013
International conference on Software Engineering and Data Engineering (SEDE), 2013
IEEE International Conference on Computer Communications (INFOCOM), 2012
International Conference on Computing, Networking and Communications (ICNC), 2012
International Wireless Communications and Mobile Computing Conference (IWCMC), 2012
International Workshop on Interconnections of Wireless Sensor Networks (IWSN), 2012
International conference on Software Engineering and Data Engineering (SEDE), 2012
IEEE International Conference on Computer Communications (INFOCOM), 2011
IEEE Consumer Communications and Networking Conference (CCNC), 2011
IEEE Global Communications Conference (GLOBECOM), 2011
IEEE Global Communications Conference (GLOBECOM), 2010
IEEE International Performance Computing and Communications Conference (IPCCC), 2010
Combinational Algorithms and Applications (COCOA), 2010
IEEE International Performance Computing and Communications Conference (IPCCC), 2009
Combinational Algorithms and Applications (COCOA), 2009
International Conference on Wireless Algorithms, Systems, and Applications (WASA), 2008
International Conference on Wireless Algorithms, Systems, and Applications (WASA), 2006

A.5 JOURNAL REFEREE

PLOS ONE
Scientific Reports
Journal of Network and Systems Management
IEEE Transactions on Network Science and Engineering
IEEE Access
IEEE Transaction on Mobile Computing
IEEE Transaction on Networking
IEEE Transaction on Wireless Communication
IEEE Transaction on Vehicular Networks
IEEE Transactions on Parallel and Distributed Systems
KSII Transactions on Internet and Information Systems
Theoretical Computer Science
Journal of Combinatorial Optimization
Discrete Mathematics, Algorithms and Applications
International Journal of Sensor Networks

Journal of Communications
International Journal of Security and Networks
Computer Networks
EURASIP Journal on Wireless Communications and Networking
International Journal of Ad Hoc and Ubiquitous Computing
Optimization Letter

B. UNIVERSITY SERVICES

- 2019 New College Faculty Innovative Team (FIT) Member
- 2019 Organizer of the Sixth ASU Cybersecurity Challenge
- 2018-2019 School of MNS Associate Director Search Committee
- 2018 Applied Computing Program Lead
- 2018 School of Social and Behavioral Sciences Post Tenure Audit Committee
- 2018 New College NCUIRE Review Committee
- 2018 Grade Grievance Committee
- 2018 Organizer of the Fifth ASU Cyber Security Challenge

I organized ASU Cybersecurity Challenge three consecutive years. The Challenge is a network/system hacking competition. My responsibilities include outreach to ASU students, student clubs, local high schools, local community colleges, and local professional development programs related to networking and security to invite them to the competition. I also coordinated with TerraVerde and UTO to set up the Challenge environment, and represented ASU during the Challenge. We had over 100 participants in 2017 and 2018.

- 2017-2018 New College Program Review Committee
- 2017 Organizer of the ASU Fourth ASU Cyber Security Challenge
- 2017 New College SRCA Review Committee
- 2017 New College NCUIRE Review Committee
- 2016 Organizer of the ASU Third ASU Cyber Security Challenge
- 2016 School of Mathematical and Natural Sciences Assessment Committee
- 2016 New College NCUIRE Review Committee
- 2016 School of Mathematical and Natural Sciences Probation Review Committee
- 2016 School of Mathematical and Natural Sciences Personnel Committee Alternative
- 2015 School of Mathematical and Natural Sciences Assessment Committee
- 2015 New College Faculty Award Committee
- 2015 School of Mathematical and Natural Sciences Tenure Review Committee
- 2015 School of Social and Behavioral Sciences Post Tenure Audit Committee

- 2015 Chair of Cyber Forensics Faculty Search Committee
- 2015 Coach of New College Academic Bowl Team
- 2013 New College SRCA Review Committee
- 2013 ACETS (Arizona Course Equivalency Tracking System) representative for ACO
- 2012 New College Undergraduate Curriculum Committee
- 2011 New College Undergraduate Curriculum Committee
- 2010 New College Undergraduate Curriculum Committee
- 2010 ASU Faculty advisor of student club Digital Diablos
- 2009 ASU Faculty advisor of student club Digital Diablos
- 2008 ASU Faculty advisor of student club Totally Applied Computing (TACO)
- 2008 ASU representative and panel presenter in Access to Computing in Higher Education Capacity Building Institute workshop
- 2007 Wrote a grant proposal for a high school outreach program

C. COMMUNITY SERVICES

- 2016 Taught a 10-week Lego Mindstorm programming session at Highland Lakes School and organize a robotic golf tournament.
- 2014-2016 Coached Highland Lakes School Math Team every Wednesday for one-hour for about 6 months each year. The team won National Honor Roll in the AMC 8 competition and 6th place in State MathCount competition in 2016.
- 2014 Coached Highland Lake School Rubik Cube Team. The team won first place in the 2014 Arizona SciTech Festival You CAN Do the Rubik's Cubes Tournament in elementary division solving 25 3x3 cubes in 2 minutes and 58 seconds. I started the Rubik's cube club and developed a methodology to pipeline the cube solving for the team. The team has won first place in state competitions for seven consecutive years since 2012. The team's current record is under 2 minutes.
- 2013 Taught Lego Mindstorm programming at Highland Lake Schools and developed a 10-week curriculum and a robotic golf tournament.
- 2013 Coached Highland Lake School Rubik Cube Team. The team won first place in the 2013 Arizona SciTech Festival You CAN Do the Rubik's Cubes Tournament in elementary division solving 25 3x3 cubes in 3 minutes and 16 seconds.
- 2012 Coached Esperanza Elementary School Rubik Cube Team. The team won first place in the 2012 Arizona SciTech Festival You CAN Do the Rubik's Cubes Tournament in elementary division. The team record is solving 25 3x3 cubes in 5 minutes and 41 seconds.