Xiao Su

Presidential Award of Zhejiang University, 1993.

EXTERNAL GRANTS

PI, \Applied Machine Learning Projects in Mobile Multimedia, Machine Learning, and Big Data Analytics," TCL Research America, $760K, 2014-2019.

Co-PI, \SaTC: EDU: Collaborative: Enhancing Security Education through Transiting Research on Security in Emerging Network Technologies," NSF, $120,832, Sep. 2017- Aug. 2019.

Co-PI, \Collaborative Research: A Technology Pathway Program in Data Technology and Applications," NSF, $482,106, Oct. 2016 - Sep. 2019.

Faculty participant, Team for Research in Ubiquitous Secure Technology (TRUST), NSF, 2005-2015.

PI, \CAREER: Integrated Coding and Content Delivery for Secure Media Streaming on P2P Networks," NSF, $400K, 2006-2013.

Co-PI, \Integrated Approaches for Airport Surface Tra c Optimization under Uncertainties," NASA, $1500000, 2008-2010.

PI with S. Meldal, D. Hayes, "Information Assurance and Network Security: Curriculum and Infrastructure Enhancement,", Intel Corp. (2005), $44,000.

Senior Personnel with M. Roldan, M. G. Morento, P. Backer, D. David, and W. Yu, "Community-Based Technology and Learning Innovation," HP Corp. (2004), $112,000.

Co-PI with P. Hsu, M. Roldan, D. David, R. Gliner, E. Moriarty, "EPICS Program at SJSU," NSF via Purdue EPICS center (2004), $112,000.

Co-PI with P. Backer, M. G. Moreno, M. Roldan, T. Hill, M. Solt, and W. D. Yu, "Problem-Based Learning Through Mobile Technology," HP Corp. (2003), $230000.

Co-PI with J. Gao, W. D. Yu, S. Shim and M. Fayad, "Learning and Using Wireless Networks and Technology Anytime and Anywhere," Intel Corp. (2003), $44000.

INTERNAL GRANTS

PI with J. Gao and D. Hung, \CMPE Lab Upgrading and Refreshing for Future Needs," $68,418, College of Engineering, San Jose State University, 2010.

PI, \Intrusion Detection and Counter-Attacking Engine," College of Engineering Faculty Development Grant, San Jose State University, $15,000 and .2 course release, 2005.

California State University research mini-grant, Sep. 2004 - Aug. 2005, $5000.

Professional development grant, San Jose State University (2004), $2500.

Professional development grant, San Jose State University (2003), $2500.

PI, "Enhancing E-Learning Through Peer-to-Peer Media Streaming," Junior Faculty Career Development Grant, San Jose State University (2003), .2 release and $1000.

Professional development grant, San Jose State University (2002), $2500.

PROFESSIONAL ACTIVITIES

Finance Co-Chair, IEEE Int'l Conf. on Multimedia and Expo (ICME), 2013.

Editorial Board Member, Journal of Computers, Academy Publisher, 2011 { present.

Co-Chair, Int'l Symposium on Multimedia over Wireless, in conjunction with IEEE Int'l Wireless Communications and Mobile Computing Conference, Chania, Crete Island, Greece, Aug. 6-8, 2008.

Track Chair, the 20th Int'l Conf. on Software Engineering and Knowledge Engineering, Redwood City, San Francisco Bay, July 1-3, 2008.

Publicity Chair, the International Symposium on Applications and the Internet (SAINT), Trento, Italy, Jan.31 - Feb.4, 2005.

Publication Chair, the 10th Int'l Conf. on Parallel and Distributed Systems (ICPADS), Newport Beach, California, July 7-9, 2004.

and Services 2005, Networking 2005, IEEE Int'l Conf. on Networks 2004, and IEEE INFOCOM 2003.

SOCIETY MEMBERSHIP

Senior Member of IEEE (since 2008)
Senior Member of the ACM (since 2008)

JOURNAL PUBLICATIONS

{ G.-M. Su, X. Su, Y. Bai, M. Wang, A. V. Vasilakos, and H. Wang. \QoE in video streaming over wireless networks: perspectives and research challenges," *Wireless Networks* (2015): 1-23.

{ H. Cui, X. Su and W. Shang, \On Optimal Media/Video Distribution in Closed P2P-Based IPTV Networks," *Computer Networks,*

421, Aug. 2005.

edge Engineering, pp. 783-786, July 2010.

{ S. Gulrajani, A. Oka and X. Su, \Multi-Tracker Collaboration in Bittorrent Systems," *Proc. 22nd Int'l Conf. on Software Engineering and Knowledge Engineering*, pp. 117-122, July 2010.

{ S. K. Bavipati and X. Su, \Secure Compressed Domain Watermarking for H.264 Video," *Proc. 7th Int'l Conf. on Information Technology: New Generations*, pp. 387-391, April 2010.

{ Y. Bai, X. Su and B. Bhargava, \Detection and Filtering Spam over Internet Telephony - A User-behavior-aware Intermediate-network-based Approach," *Proc. IEEE Int'l Conf. on Multimedia and Expo*, pp. 726-729, June-July 2009.

{ H. Cui, X. Su and W. Shang, \Optimal Dissemination of Layered Videos in P2P-based IPTV Networks," *Proc. IEEE Int'l Conf. on Multimedia and Expo*, pp. 738-741, June-July 2009.

{ X. Ma and X. Su, \A New TCP Congestion Control Algorithm for Media Streaming," *Proc. IEEE Int'l Conf. on Multimedia and Expo*, pp. 746-749, June-July 2009.

{ Y. Bai, X. Su and B. Bhargava, \Adaptive Voice Spam Control with User Behavior Analysis," *Proc. 11th IEEE Int'l Conf. on High Performance Computing and Communications*, pp. 354-361, June 2009.

2007.

{ A. K. Mahajan, S. Kondayya and X. Su, \Exploiting Reference Frame History in H.264/AVC Motion Estimation," *Proc. IEEE Asia Paci c Conf. on Circuits and Systems,* pp. 410-413, Dec. 2006.

{ T. Kasemsap, S.-H. Wong and X. Su, \Peer-to-Peer Transmission of JPEG2000 Images," *Proc. 3rd IEEE Consumer Communications and Networking Conference,* pp. 198-202, Jan. 2006.

{ S. B. Ho and X. Su, \CuMPE: Cluster-Management and Power-E cient Protocol for Wireless Sensor Networks," *Proc. Int'l Conf. on Information and Technology: Research and Education,* pp. 60-67, June 2005.

{ F. Yuan and X. Su, \In-Memory Storage and Search System for Event Management in Network Security," *Proc. Int'l Conf. on Information Technology: Coding and Computing,* pp. 734-739, April 2005.

{ X. Su and T. Wang, \Sequence of Linear Programming for Fine-Scalable Coded Image Transmission with Delay Bound," *Proc. IEEE Global Telecommunications Conference (Globecom),* pp. 622-626, Nov. 29 - Dec. 3, 2004.

{ X. Su, Y. Shang and Y. Mai, \Delay-Sensitive Delivery of Scalable Coded Images over Peer-to-Peer Networks," *Proc. IEEE Int'l Conf. on Multimedia and Expo.,* pp. 1627-1630, June 2004.

{ Y. Mai, R. Upadrashta and X. Su, \J-Honeypot: a Java-Based Network Deception Tool with Monitoring and Intrusion Detection," *Proc. Int'l Conf. on Information Technology: Coding and Computing,* pp. 804-808, Apr. 2004.

{ X. Su and Y. Shang, \Error Concealment of Transform Coded Images with Continuous QoS," *Proc. Int'l Conf. on Information Technology: Coding and Computing,* pp. 699-703, Apr. 2004.

{ X. Su and R. Fatoohi, \Scalable Coded Image Transmissions over Peer-to-Peer Networks," *Proc. IEEE Int'l Conf. on Multimedia and Expo,* pp. 493-496, July, 2003.

{ X. Su, \Loss Aware Rate Allocations in H.263 Coded Video Transmissions," *Proc. Int'l Conf. on Information Technology: Coding and Computing,* pp. 374-378, Apr. 2003.

{ B. W. Wah and X. Su, \Loss Concealments of Subband Coded Images for Real-Time Transmissions in the Internet," *Proc. IEEE Int'l Conf. on Multimedia and Expo,* pp. 449-452, Aug. 2002.

{ B. W. Wah and X. Su, \Coding and Transmission of Subband Coded Images in the Internet," *Proc. SPIE Multispectral Image Processing and Pattern Recognition (Keynote Address),* Oct. 2001.

{ B. W. Wah, X. Su and D. Lin, \A Survey of Error-Concealment Schemes for Real-Time Audio and Video Transmissions over the Internet," *Proc. Int'l Symposium on Multimedia Software Engineering,* pp. 17-24, Dec. 2000.

{ X. Su and B. W. Wah, \Streaming Video with Optimized Reconstruction-Based DCT," *Proc. IEEE Int'l Conf. on Multimedia and Expo.,* pp. 271-274, July-Aug. 2000.

{ B. W. Wah, D. Lin and X. Su, \Streaming Real-Time Audio and Video Data with

Transformation-Based Error Concealment and Reconstruction," *Proc. First Int'l Conf. on Web Information Systems Engineering,* IEEE, pp. 19-21, June 2000.

{ B. W. Wah and X. Su, \Streaming Video with Transformation-Based Error Concealment and Reconstruction," *Proc. IEEE Int'l Conf. on Multimedia Computing and Systems,* pp. 238-243, June 1999.

{ B. W. Wah and X. Su, \An E cient Multiaccess Protocol for Wireless Networks," *Proc. Int'l symposium on Internet Technology,* April 1998.

{ X. Su, T. Wang and X. Xing, \Binary Image Restoration Using Neural Network Models," *Proc. IEEE Region 10 Conf. on Computer, Communication, Control and Power Engineering,* pp. 906-909, Oct. 1993.

Invited Presentations

{ \First Experiences with DETER in Security Curriculum," NSF TRUST WISE Institute, June 2012.

{ \Hands-on Testbed Experiments in Security Curriculum," Workshop on Curriculum Development in Security and Information Assurance (CDSIA), May 2011.

{ \NUSHU Covert Channel Detection using LZMA Compression," presentation at 20th