

Curriculum Vitae

Personal Info

Yan Shi
Student at Michigan State University
(shiyans3@msu.edu)

Ph.D. Student at Michigan State University College of Engineering

Publications

[1] Y. Shi and S. Biswas, "Robust Source Identification of Encrypted Video Traffic in The Presence of Heterogeneous Network Traffic," in The Eighth International Conference on COMmunication Systems and NETworkS (COMSNETS). IEEE, Jan. 2016.

[2] H. Griffith, Y. Shi, and S. Biswas, "A wearable system for asymmetric contactless human sensing," in 2016 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC). IEEE, Aug. 2016, pp. 4991–4994.

[Online]. Available: <http://dx.doi.org/10.1109/embc.2016.7591848>

[3] H. Griffith, Y. Shi, and S. Biswas, "Contactless on-bed activity sensing using first-reflection echolocation," in 2016 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC). IEEE, Aug. 2016, pp. 4925–4928.

[Online]. Available: <http://dx.doi.org/10.1109/embc.2016.7591832>

[4] Y. Shi and S. Biswas, "Protocol-independent identification of encrypted video traffic sources using traffic analysis," in IEEE International Conference on Communications (ICC'16), May 2016.

[Online]. Available: <http://dx.doi.org/10.1109/ICC.2016.7511096>

[5] Y. Shi and S. Biswas, "Characterization of traffic analysis based video stream source identification," in 2015 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS). IEEE, Dec. 2015, pp. 1–6.

[Online]. Available: <http://dx.doi.org/10.1109/ants.2015.7413623>

[6] Y. Shi and S. K. Biswas, "Detecting tunneled video streams using traffic analysis," in The Seventh International Conference on COMmunication Systems and NETworkS (COMSNETS 2015). IEEE, Jan. 2015.

[Online]. Available: <http://dx.doi.org/10.1109/comsnets.2015.7098675>

[7] Y. Shi and S. K. Biswas, "Website fingerprinting using traffic analysis of dynamic webpages," in Globecom 2014 - Communication and Information System Security Symposium. IEEE, Dec. 2014.

[Online]. Available: <http://dx.doi.org/10.1109/GLOCOM.2014.7036866>

[8] T. Jia, Y. Shi, Z. Zhou, and D. Chen, "3D depth information extraction with omni-directional camera," Information Processing Letters, vol. 115, no. 2, pp. 285–291, Feb. 2015.

[Online]. Available: <http://dx.doi.org/10.1016/j.ipl.2014.09.029>

Courses

Course Name	Course code	GPA
Computer and Network Security	CSE825	3.5
Design & Theory of Algorithms	CSE830	4.0
Theory of Prob & Stat I	STT861	4.0
Machine Learning	CSE847	3.0
Stochastic System Analysis	ECE863	4.0
Selected Topics	ECE802-606	4.0
Computer Vision	CSE803	3.5
Pattern Recognition	CSE802	4.0

Average GPA:3.75

Projects

Computer Vision Based Automotive Gauge Inspection System Using CUDA

October 2008 to June 2009

This system is for the inspection of the instrumental cluster (namely the composite gauge) of the BESTURN model cars produced by 1st automotive works. It can be used to test ICs dynamically, and require no human intervention because all the operations can be programmed into it and executed automatically.

Distributed Human Monitoring System

January 2012 to Present

This is a distributed monitoring system for measuring human social interaction. Developed a Bluetooth connector for the Cricket node to enable communication with an Android smartphone. Also implemented a Java server that stores data in a MySQL database along with displaying the data on a webpage. Project is currently being used by NASA to evaluate

psychological conditions during long-term missions. This project is currently being evaluated by MSU Innovation Center for the potential of being commercialized.

FirstStep2Health

September 2016 to Present

Early Intervention program by MSU School of Nursing. The program harnesses social network for educating young parents on the importance of healthy living. A mobile app that integrates with Facebook provides participants with weekly healthy living challenges, useful health facts, while the Facebook group can be used to see other participants' progress.