

Shan Lin

Tenure Track Assistant Professor
Department of Electrical and Computer Engineering
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Research Interest

cyber physical systems, networked information systems, and wireless networks
broad interest in networked systems, distributed embedded systems, physical computing, sensor systems, data analytics for large scale information systems, pervasive computing, and robotics

Employment

Tenure Track Assistant Professor, ECE, Stony Brook University	Aug 2014 – present
Visiting Professor, CIS, University of Pennsylvania	Sep 2010 – Aug 2015
Tenure Track Assistant Professor, CIS, Temple University	Jul 2010 – Aug 2014

Education

Ph. D. in Computer Science, University of Virginia Advisor: John. A. Stankovic Thesis: Taming Networking Challenges with Feedback Control	May 2010 Charlottesville VA
M. S. in Computer Science, University of Virginia Advisor: John. A. Stankovic Thesis: Adaptive Transmission Power Control in Wireless Sensor Networks	Jan 2007 Charlottesville VA
B. E. in Computer Science and Engineering, Shanghai Jiao Tong University Ranking in GPA: No. 1 in 113	Jun 2004 Shanghai China

Honors and Awards

NSF Career Award	2016
Best Paper Nomination at ACM/IEEE ICCPS	2015
Best Poster Runner-up at ACM MobiHoc	2014
Grant Academy Award at Temple University	2014
Local Arrangement Chair Award for CPSWeek	2013
Invitation for Attending the FutureHetNets	2011
SAIC Scholar Award and Fellowship	2010
Cyber Physical System Summer School Fellowship	2009
Excellent Internship Award at Intel China Software Center	2004
Outstanding Student Scholarship of Shanghai Jiaotong University	2000 - 2004
Exceptional Student Award of Shanghai Jiaotong University, awarded biannually	2001, 2003
Freshman Scholarship of Shanghai Jiaotong University	2000
Award for Exemption of Chinese National University Entry Examinations	2000
First Award of Shandong Province in National Mathematics, Physics, and Biology Olympics	1999

Grants

NSF CNS-1553273

NeTS: CAREER: Safe and Secure Network Control for Smart and Connected Hospitals

PI: Shan Lin (Stony Brook University)

Total: 450K

Years: 2016-2021

DOE DE-EE0007682

Human-in-the-loop Sensing and Control for Commercial Building Energy Efficiency and Occupant Comfort

PIs: Mario Berges, Anthony Rowe (Carnegie Mellon University), Shan Lin (Stony Brook University), Sirajum Munir (BOSCH)

Total: 1.5M, PI Lin: \$300K

Years: 2016-2019

NSF CNS-1239108

CPS: Synergy: Collaborative Research: Multiple-level Predictive Control of Mobile Cyber Physical Systems with Correlated Context

PIs: John Stankovic (University of Virginia), Shan Lin (Stony Brook University), George Pappas (University of Pennsylvania), Tian He (University of Minnesota)

Total: 1M, PI Lin: \$200K

Years: 2012-2017

NSF CNS-1218718

NeTS: Small: Collaborative Research: Non-isotropic Networked Sensor Deployment for Smart Buildings

PIs: Jie Gao, Shan Lin (Stony Brook University)

Total: \$500K, PI Lin: \$270K

Years: 2012-2017

NSF IIS-1231680

SHB: Type I (EXP): Collaborative Research: Heterogeneous Large-Scale Telemedicine for Cardiology Patients

PIs: Shan Lin (Stony Brook University), Oleg Sokolsky (University of Pennsylvania)

Total: \$600K, PI Lin: \$300K

Years: 2012-2017

NSF CNS-1138963

EAGER: A Meso-Scale GENI WiMAX Project

PIs: Jie Wu, Gene Kawtmy, Shan Lin, Chiu Tan (Temple University), Kapil Dandekar etc (Drexel University)

Total: \$300K, Temple: \$200K

Years: 2011-2013

NSF CCF-1301774

NSF CAREER Workshop

PIs: Jie Wu, Shan Lin, Chiu C. Tan (Temple University)

Total: 50K

Years: 2013

NSF/DoD CNS-1156574

REU Site: Enhancing Undergraduate Experience in Next Generation Networking Technologies

PIs: Jie Wu, Chiu Tan, Shan Lin, Abdallah Khreishah (Temple University)

Total: \$320K

Years: 2012-2014

Microsoft Research Hawaii Project Award

PIs: Shan Lin, Jie Wu (Temple University)

Total: \$10K

Years: 2010-2011

Journal Paper

- D. Zhang, T. He, S. Lin, S. Munir, J. A. Stankovic. Taxi-Passenger-Demand Modeling Based on Big Data from a Roving Sensor Network. Accepted to Proc. of the IEEE Transactions on Big Data (TBD), 2016.
- F. Miao, Shuo Han, **S. Lin**, S. Munir, J. A. Stankovic, H. Huang, D. Zhang, T. He and G. J. Pappas. Taxi Dispatch with Real-Time Sensing Data in Metropolitan Areas: A Receding Horizon Control Approach. Accepted to Proc. of the *IEEE Transactions on Automation Science and Engineering (TASE)*, 2016.
- L. Chen, W. Wang, H. Huang, and **S. Lin**. Time-constrained Data Harvesting in WSNs: Theoretical Foundation and Algorithm Design. Accepted to the *IEEE/ACM Transactions on Networking (ToN)*, 2016.
- H. Xu, L. Huang, C. Qiao, W. Long, **S. Lin**, and Y. Sun. Shared Relay Assignment (SRA) for Many-to-One Traffic in Cooperative Networks. Accepted to the Proc. of the *IEEE Transactions on Mobile Computing (TMC)*, 2016.
- Y. Wu, K. Liu, T. He, J. Stankovic, **S. Lin**. Efficient Multi-Channel Communications in Wireless Sensor Networks. In Proc. of the *ACM Transactions on Sensor Networks (TOSN)*, 2015.
- **S. Lin**, M. Fei, J. Zhang, G. Zhou, L. Gu, T. He, J. Stankovic, S. Son, and G. Pappas. ATPC: Adaptive Transmission Power Control for Wireless Sensor Networks. In Proc. of the *ACM Transactions on Sensor Networks (TOSN)*, 2015.
- H. Xu, L. Huang, L. Chen, **S. Lin**. Joint relay assignment and rate-power allocation for multiple paths in cooperative networks. In Proc. of the *Wireless Networks*, 2015.
- L. X, G. Chen, J. Cao, **S. Lin**, H. Dai, X. Wu. Towards Energy-Efficiency Optimization for Latency-optimal Broadcast Scheduling in Low-Duty-Cycle Sensor Networks. In Proc. of the *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, 2015.
- **S. Lin**, G. Zhou, M. Al-Hami, K. Whitehouse, Y. Wu, J. Stankovic, T. He, X. Wu, and H. Liu. Towards Stable Network Performance in Wireless Sensor Networks: A Multilevel Perspective. In Proc. of the *ACM Transactions on Sensor Networks (TOSN)*, 2015.

- D. Zhang, T. He, **S. Lin**, S. Munir, J. A. Stankovic. pCruise: Online Cruising Mile Reduction for Large-Scale Taxicab Networks. In Proc. of the *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, 2015.
- D. Zhang, T. He, Y. Liu, **S. Lin**, and J. A. Stankovic. CallCab: A Unified Recommendation System for Carpooling and Regular Taxicab Services. In Proc. of the *IEEE Transaction on Emerging Topics in Computing (TETC)*, 2014.
- H. Dai, X. Wu, G. Chen, L. Xu and **S. Lin**, Minimizing the Number of Mobile Chargers for Large-scale Wireless Rechargeable Sensor Networks. In Proc. of the *Computer Communications (COMCOM)*, 2014.
- X. Hei, X. Du, **S. Lin**, I. Lee, and O. Sokolsky. Patient Infusion Pattern based Access Control Schemes for Wireless Insulin Pump System. In Proc. of the *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, 2014.
- H. Liu, J. Li, Z. Xie, **S. Lin**, J. A. Stankovic, K. Whitehouse, and D. Siu, An Automatic, Robust, and Efficient Multi-User Breadcrumb System for Emergency Response Applications. In Proc. of the *IEEE Transactions on Mobile Computing (TMC)*, 2013.
- S. Munir, J. A. Stankovic, C. M. Liang, and **S. Lin**, Reducing Waste for Computers by Human-in-the-Loop Control, In Proc. of the *IEEE Transactions on Emerging Topics in Computing (TETC)*, 2013.
- X. Li, J. Wu, **S. Lin**, and X. Du. Channel switching control policy for wireless mesh networks. Proc. of the *Journal of Parallel and Distributed Computing (JPDC)*, 2012.
- G. Zhou, Q. Li, J. Li, Y. Wu, **S. Lin**, J. Lu, C. Wan, M. D. Yarvis, and J. A. Stankovic. Adaptive and Radio-Agnostic QoS for Body Sensor Networks. *ACM Transactions on Embedded Computing Systems (TECS)*, 2011.

Journal Paper under Review

- L. Chen, **S. Lin**, and H. Huang. Charge Me If You Can: Charging Path Optimization and Scheduling in Mobile Networks. Submitted to the *IEEE/ACM Transactions on Networking (ToN)*.
- S. Munir, H. Yang, **S. Lin**, E. Hoque, S. M. S. Nirjon, J. A. Stankovic, K. Whitehouse, L. Chen, J. Gao. Addressing burstiness for reliable communication and latency bound generation in wireless sensor networks. Submitted to the *ACM Transactions on Sensor Networks (TOSN)*.
- H. Huang, C. Ni, J. Gao, X. Ban, A. Schnerider, **S. Lin**. Connected Wireless Camera Network Deployment with Visibility Coverage. Submitted to the *IEEE Transactions on Parallel and Distributed Systems (TPDS)*.

Conference Paper

- H. Huang, **S. Lin**. Tooth Brushing Monitoring using Wrist Watch. In Proc. of the *14th ACM Conference on Embedded Networked Sensor Systems (SenSys)*, 2016.

- L. Chen, **S. Lin**, H. Huang. Charge Me If You Can: Charging Path Optimization and Scheduling in Mobile Networks. In Proc. of the *17th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2016.
- K. Liu, J. Gao, **S. Lin**, H. Huang, B. Schiller. Joint Sensor Duty Cycle Scheduling with Coverage Guarantee. In Proc. of the *17th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2016.
- F. Miao, **S. Lin**, S. Munir, J. A. Stankovic, H. Huang, D. Zhang, T. He and G. J. Pappas. Data-Driven Robust Taxi Dispatch Approaches. Poster in the Proc. of the *ACM/IEEE 6th International Conference on Cyber-Physical Systems (ICCPS)*, 2016.
- G. Peng, G. Zhou, D. T. Nguyen, X. Qi, **S. Lin**. HIDE: AP-assisted Broadcast Traffic Management to Save Smartphone Energy. In Proc. of the *36th IEEE International Conference on Distributed Computing Systems (ICDCS)*, 2016.
- K. Joshi, **S. Lin**, S. Nirjon, H. Yang. Sensemo: An Emotion Sensing System using Physiological Cues. Poster in Proc. of the *17th International Workshop on Mobile Computing Systems and Applications (HotMobile)*, 2016.
- F. Miao, S. Han, **S. Lin**, G. Pappas. Taxi Dispatch under Model Uncertainties. In Proc. of the *54th IEEE Conference on Decision and Control (CDC)*, 2015.
- H. Huang, **S. Lin**, L. Chen, J. Gao, A. Mamat, J. Wu. Dynamic Mobile Charger Scheduling in Heterogeneous Wireless Sensor Networks. In Proc. of the *12th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, 2015.
- F. Miao, **S. Lin**, S. Munir, J. Stankovic, H. Huang, D. Zhang, T. He, and G. Pappas. Taxi Dispatch with Real-Time Sensing Data in Metropolitan Areas - a Receding Horizon Control Approach. Best paper nomination in the *6th ACM International Conference on Cyber-Physical Systems (ICCPS)*, 2015.
- B. Schiller, **S. Lin**, K. Liu, and J. Gao. Device Free Indoor Localization Using Infrared. the *Microsoft Indoor Localization Competition*, 2015.
- C. Lin, W. Wang, H. Huang, and **S. Lin**. Time-constrained Data Harvesting in WSNs: Theoretical Foundation and Algorithm Design. In Proc. of the *34th Annual IEEE International Conference on Computer Communications (IEEE Infocom)*, 2015.
- J. Huang, G. Xing, J. Niu, and **S. Lin**. CodeRepair: PHY-layer Partial Packet Recovery Without the Pain. In Proc. of the *34th Annual IEEE International Conference on Computer Communications (IEEE Infocom)*, 2015.
- Q. Xiang, H. Zhang, J. Wang, G. Xing, **S. Lin**, and L. Xiu. On Optimal Diversity in Network-Coding-Based Routing in Wireless Networks. In Proc. of the *34th Annual IEEE International Conference on Computer Communications (IEEE Infocom)*, 2015.
- V. Martin, A. Coulabay, N. Schaff, C. Tan, and **S. Lin**. Bandwidth Prediction on a WiMAX Network. In the Proc. of the *First National Workshop for REU Research in Networking and Systems*, 2014.
- X. Hei and **S. Lin**, Multi-Part File Encryption for Electronic Health Records Cloud. In

Proc. of the *4th ACM MobiHoc Workshop on Pervasive Wireless Healthcare (MobileHealth)*, 2014.

- X. Hei, X. Du, and **S. Lin**. Near Field Communication based Access Control for Wireless Medical Devices. Poster in *the 15th ACM International Symposium on Mobile Ad Hoc Networking and Computing (ACM Mobihoc)*, 2014. (Best Poster Runner-up)
- H. Huang, C. Ni, J. Gao, X. Ban, A. Schnerider, **S. Lin**. Connected Wireless Camera Network Deployment with Visibility Coverage. In Proc. of the *33rd Annual IEEE International Conference on Computer Communications (INFOCOM)*, 2014.
- D. Zhang, T. He, **S. Lin**, S. Munir, and J. A. Stankovic. Dmodel: Online Taxicab Demand Model from Big Sensor Data in a Roving Sensor Network. In the Proc. of *the IEEE International Congress on Big Data (BigData)*, 2014.
- L. Xu, J. Cao, **S. Lin**, H. Dai, X. Wu, and G. Chen, Energy-efficient Broadcast Scheduling with Minimum Latency for Low-Duty-Cycle Wireless Sensor Networks. Accepted to the *10th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, 2013.
- H. Dai, X. Wu, L. Xu, G. Chen, and **S. Lin**, Using Minimum Mobile Chargers to Keep Large-scale Wireless Rechargeable Sensor Networks Running Forever. In Proc. of the *22nd International Conference on Computer Communications and Networks (ICCCN)*, 2013.
- S. Munir, J. A. Stankovic, C. M. Liang, and **S. Lin**, New Cyber Physical System Challenges for Human-in-the-Loop Control. In Proc. of the *8th International Workshop on Feedback Computing*, 2013.
- H. Huang, **S. Lin**, A. Mamat, and J. Wu, Predictive Scheduling for Spatial-dependent Tasks in Wireless Sensor Networks. In WIP of the *19th IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)*, 2013.
- H. Huang, C. Ni, X. Ban. J. Gao, and **S. Lin**, Connected Wireless Camera Network Deployment with Visibility Coverage. Poster in Proc. of *the 12th ACM/IEEE Conference on Information Processing in Sensor Networks (IPSN)*, 2013.
- Y. Sun, S. Zhang, H. Xu, and **S. Lin**, Cooperative Communications for Wireless Ad Hoc and Sensor Networks. Proc. of the *International Journal of Distributed Sensor Networks*, 2013.
- X. Hei, X. Du, and **S. Lin**, Two Vulnerabilities in Android OS Kernel. Proc. of *the IEEE International Conference on Communications (ICC)*, 2013.
- Y. Sun, S. Zhang, H. Xu, and **S. Lin**, New Technologies and Research Trends for Mobile Wireless Sensor Networks, 2013.
- X. Hei, X. Du, **S. Lin**, and I. Lee, PIPAC: Patient Infusion Pattern based Access Control Scheme for Wireless Insulin Pump System. Proc. of the *33rd Conference on Computer Communications (INFOCOM)*, 2013.
- P. Asare, D. Cong, S. Vattam, B. Kim, **S. Lin**, O. Sokolsky, M. Mullen-Fortino, and I.

- Lee, The Medical Device Dongle: An Open-Source Standards-Based Platform for Interoperable Medical Device Connectivity. Proc. of the *ACM SIGHIT International Health Informatics Symposium (IHI)*, 2012.
- D. Lexie, **S. Lin**, and J. Wu, Adaptive Control based Battery Charging Scheduling with Bursty Loads. Proc. of the *IEEE Global Communications Conference (Globecom)*, 2012.
 - H. Liu, Z. Xie, J. Li, **S. Lin**, K. Whitehouse, and J. A. Stankovic. Exploiting Efficient Coordination among Multiple Firefighters in Indoor Breadcrumb Systems. Proc. of the *22nd Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, 2011.
 - J. N. Contractor, and **S. Lin**, Exploring Cloud Services with Body Area Networks for Medical Care. Poster in Proc. of the *IEEE Body Area Networks (Bodynets)*, 2011.
 - P. Asare, D. Cong, S. Vattam, B. Kim, **S. Lin**, O. Sokolsky, M. Mullen-Fortino, and I. Lee, Demo of the Medical Device Dongle: An Open-Source Standards-Based Platform for Interoperable Medical Device Connectivity. Proc. of *Wireless Health Conference (WH)*, 2011.
 - H. Liu, J. Li, Z. Xie, **S. Lin**, J. A. Stankovic, K. Whitehouse, D. Siu. Automatic and Robust Breadcrumb System Deployment for Indoor Fire-fighter Applications. Proc. of the *8th Annual International Conference on Mobile Systems, Applications and Services (MobiSys)*, 2010.
 - S. Munir, **S. Lin**, E. Hoque, S. M. Nirjon, J. A. Stankovic, and K. Whitehouse. Addressing Burstiness for Reliable Communication and Latency Bound Generation in Wireless Sensor Networks. Proc. of the *9th ACM/IEEE Conference on Information Processing in Sensor Networks (IPSN)*, 2010.
 - **S. Lin**, G. Zhou, K. Whitehouse, Y. Wu, J. A. Stankovic, and T. He. Towards Stable Network Performance in Wireless Sensor Networks. Proc. of the *30th IEEE Real-Time Systems Symposium (RTSS '09)*, Dec. 2009.
 - **S. Lin**, John A. Stankovic. Performance Composition for Cyber Physical Systems. Proc. of the *Ph.D. Forum of the 30th Real-Time Systems Symposium (RTSS)*, 2009.
 - **S. Lin**, G. Zhou, Y. Wu, J. A. Stankovic, T. He and K. Whitehouse. Achieving Stable Network Performance in Wireless Sensor Networks. Poster in Proc. of the *6th ACM Conference on Embedded Networked Sensor Systems (SenSys)*, 2008.
 - Y. Wu, T. He, J. A. Stankovic, and **S. Lin**. Realistic and Efficient Multi-Channel Communications in Dense Sensor Networks. In Proc. of the *27th Conference on Computer Communications (INFOCOM)*, May 2008.
 - **S. Lin**, T. He, and J. A. Stankovic. CPS-IP: Cyber Physical Systems Interconnection Protocol. Proc. of the *28th Ph.D. Forum of the Real-Time Systems Symposium (RTSS)*, 2007.
 - **S. Lin**, J. Zhang, G. Zhou, L. Gu, T. He, and J. A. Stankovic. ATPC: Adaptive Transmission Power Control for Wireless Sensor Networks. Proc. of the *4th ACM Conference on Embedded Networked Sensor Systems (SenSys)*, 2006.

- G. Virone, A. Wood, L. Selavo, Q. Cao, L. Fang, T. Doan, Z. He, R. Stoleru, **S. Lin**, and J. A. Stankovic. An Advanced Wireless Sensor Network for Health Monitoring. *Proc. of 1st Transdisciplinary Conference on Distributed Diagnosis and Home Healthcare (D2H2)*, 2006.
- A. Wood, G. Virone, T. Doan, Q. Cao, L. Selavo, Y. Wu, L. Fang, Z. He, **S. Lin**, and J. A. Stankovic. ALARM-NET: Wireless Sensor Networks for Assisted-Living and Residential Monitoring. *Technical Report CS-2006-11*, Department of Computer Science, University of Virginia, 2006.
- J. A. Stankovic, Q. Cao, T. Doan, L. Fang, Z. He, R. Kiran, **S. Lin**, S. Son, R. Stoleru, and A. Wood. Wireless Sensor Networks for In-Home Healthcare: Potential and Challenges. *Proc. of the High Confidence Medical Device Software and Systems Workshop (HCMDSS)*, 2005.

Professional Talks

Smart Building Testbed - A CPS Approach	CEAS Workshop on Smart and Resilient Cities and Ecosystems at Stony Brook Univ, Aug 2016
Smart Transportation Systems	Vienna Univ of Technology at Vienna Austria, Delft Univ of Technology at Amsterdam Netherlands, Jul 2016
HIDE: AP-assisted Broadcast Traffic Management to Save Smartphone Energy	ICDCS at Nara Japan, June 2016
Data Driven Robust Control for Artificial Pancreas	NSF CyberCardia Workshop at Stony Brook Univ, Apr 2016
MPC for Urban Transportation Systems	Imperial College London, Univ of Edingburgh, Jun 2015
Taxi Dispatch with Real-Time Sensing Data in Metropolitan Areas - a Receding Horizon Control Approach	Invited Talk at CS Dept Stony Brook Univ, Apr 2015
Assuring Food Safety with Supply Chain Co-Location Control	NSF Workshop on Food Safety Global Supply Chain Research Needs, Jan 2014
Data Driven Control for Large Scaled Networked Information Systems	USTC, Nanjing Univ, Beijing Univ of Posts and Telecommunications, Beijing Normal Univ, Institute of Information Engineering at Chinese Academy of Sciences, Jan 2014
Large Scale Heterogeneous Telemedicine for Congestive Heart Failure Patients	Univ of Virginia, Aug 2013
Power Control in Cyber Physical Systems	Univ of Rome, Apr 2013
Network Control in Cyber Physical Systems	Univ of Memphis, Mar 2013

Wireless Network Virtualization	Institute of Information Engineering at Chinese Academy of Sciences, Dec 2012
Feedback Control in Cyber Physical Systems	Beihang Univ, Shandong Univ, Nanjing Univ, Univ of Science and Technology of China, Dec 2012
Control Design for Cyber Physical System	HK Univ of Science and Technology, Jun 2012
Exploring Cloud Services with Body Area Networks	BodyNets, Nov 2011
Heterogeneity and its Challenges in Wireless Networks	FutureHetNets, Apr 2011
Taming Wireless Network Challenges with Feedback Control	Univ of Delaware, Mar 2011
Taming Wireless Network Challenges with Feedback Control	Univ of Pennsylvania, Dec 2011
Taming Wireless Network Challenges with Feedback Control	Univ. of Connecticut, Nov 2010
Towards Stable Network Performance in Wireless Sensor Networks	IEEE RTSS, Dec 2009
Performance Composition for Cyber Physical Systems	IEEE RTSS, Dec 2009
Stable Routing for Dynamic Wireless Sensor Networks	Univ. of Virginia, Aug 2009
Achieving Stable Network Performance for Wireless Sensor Networks	ACM SenSys, Nov 2008
CSP-IP: An Interconnection Protocol for Cyber Physical Systems	IEEE RTSS, Dec 2007
ATPC: Adaptive Transmission Power Control for Wireless Sensor Networks	ACM SenSys, Nov 2006

Research Collaborations

John A. Stankovic, Kamin Whitehouse	University of Virginia
Insup Lee, George Pappas, Oleg Sokolsky	University of Pennsylvania
Scott Smolka, Jie Gao	Stony Brook University
Tian He	University of Minnesota
Lin Chen	Univ. Paris-Sud 11
Shahriar Nirjon	Univ. of North Carolina at Chapel Hill
Gang Zhou	College of William and Mary
Hongli Xu	University of Science and Technology of China
Jie Wu, Xiaojiang Du	Temple University

Research Experience

Research Assistant	2004 - 2010
University of Virginia	Charlottesville VA
Software Engineer Intern	2003 - 2004
Intel China Software Center	Shanghai China
Research Assistant	2002 - 2003
SJTU-IBM Research Center	Shanghai China
Training Team Member	2002 - 2003
ACM ICPC Team, Shanghai Jiao Tong University	Shanghai China

Teaching Experience

Research Advisor , Temple University	2012 - 2014
Research Education for Undergraduate (REU site)	
Lecturer , Stony Brook University	
Cyber Physical Systems (ESE 534)	Fall 2016
Mobile Cloud Computing (ESE 543/343)	Spring 2016
Cyber Physical Systems (ESE 534)	Fall 2015
Mobile Cloud Computing (ESE 543/343)	Spring 2015
Cyber Physical Systems (ESE 534)	Spring 2015
Lecturer , Temple University	Fall 2014
Seminar Topic: Computer Architecture (CIS4350)	Spring 2014
System Programming (CIS2139)	Falls 2013 - 2012
Computer Architecture (CIS4350)	Springs 2011 - 2013
Mobile Cloud Computing (CIS4350)	Fall 2011
Teaching Assistant , University of Virginia	
Cyber Physical Systems (CS851)	Spring 2007
Feedback Control for Computer Systems (CS851)	Spring 2006
Discrete Mathematics II (CS302)	Spring 2005
Discrete Mathematics I (CS202)	Fall 2004
Student Mentor , University of Virginia	2005 - 2008

Professional Activities

Technical Committee Member	
IEEE Conference on Computer Communications (INFOCOM)	2012 - 2016
IEEE Real-Time Systems Symposium (RTSS)	2015 - 2016
Medical Cyber Physical Systems Workshop (MCPS)	2014 - 2016
Cyber Physical System Week (CPS Week) (Local Arrangement Chair)	2013
IEEE BodyArea Networks (BodyNet) (TPC Vice Chair)	2013
IEEE International Conference on Distributed Computing Systems (ICDCS)	2013 - 2014
High Confidence Medical Devices, Software, and Systems and Medical Device Plug-and-Play Interoperability Workshop	2011 - 2013
IEEE International Conference on Cyber-Physical Systems (ICCPS)	2012 - 2013

IEEE Real-Time and Embedded Technology and Applications Symposium	2011 - 2013
International Conference on Computer Communications and Networks (Session Chair)	2012 - 2013
IEEE International Conference on Networking, Architecture, and Storage	2011 - 2013
IEEE International Conference on Computing, Networking and Communications	2012 - 2013
IEEE BodyArea Networks (BodyNet) (Session Chair)	2011 - 2012
IEEE Conference on Computer Communications workshop on Machine-to-Machine Communications and Networking	2012
International Workshop on Cyber-Physical Networking Systems	2012 - 2013
IEEE International Conference on Service Oriented Computing & Applications	2012
IEEE International Conference on Embedded and Ubiquitous Computing	2012 - 2013
IEEE Wireless Communications and Networking Conference	2012 - 2013
International Conference on Networked Sensing Systems	2012 - 2013
IEEE International Conference on Distributed Computing in Sensor Systems	2012
International Conference on High Performance Computing & Simulation	2012
Reviewer	
ACM/IEEE ToN, TMC, TOSN, TETC, TPDS, TCPS, TII	2010 - 2016
Undergraduate Committee , Stony Brook University	2016
Colloquium Coordinator , Temple University	2014
Merit Committee Member , Temple University	2012
Undergraduate Study Committee Member , Temple University	2010 - 2012
Guest Editor , International Journal of Distributed Sensor Networks Special Issue of Cooperative Communication for Wireless Networks	2012
Guest Editor , International Journal of Distributed Sensor Networks Special Issue of New Technologies and Research Trends for Mobile Wireless Sensor Networks	2013
ACM, IEEE Member	2004 - present
Volunteer , ACM/IEEE Conference on Information Processing in Sensor Networks, ACM Conference on Embedded Networked Sensor Systems, Workshop on Embedded Networked Sensors	2007 - 2009
Vice President , Chinese Student and Scholar Society, University of Virginia	2005 - 2007

Students

Current Postdoc:

Nicola Paoletti

Current PhD Students:

Hua Huang, Kin Sum Liu, Hao-Tsung Yang, Yukun Yuan, Hongkai Chen

Current Master Students:

Karan Joshi, Jie Zhang, Sumit Gupta, Nirali Nayan Shah

Graduated PhD Student:

CV, Shan Lin

Xiali Hei (Co-advise with Prof. Xiaojiang Du)

Graduated Master Student:

Jigar Contractor 2011; Priyam Basu 2013; Anand Madhusoodanan 2013; Saumil A Pradhan 2013, Yang Cao 2014

Mentored Undergraduate Students:

Xujin Zhang, Kam Hou U, Jianwei Qiu, A. S. M. Abdul Kader, Dylan Lexie, Adama Coulibaly, Neil Asnani. Hichem Nassiri, Hao M Vi, Andrew Thomas Schneider

Senior Design Projects 2014-2016:

Group I - Zeshi Du, Rong Chen, Wesley Huang, Xinyun Xiao

Group II - Stanley Li, Amdadul Chowdhury, Kwanin Leung, Rakibul Hossain

Group III - Chaojie Wang, Huang Lin

Group IV - Marcko Sicoco, Lisa Yee

Mentored REU Students:

Nathan Schaaf (William & Marry), Jodi Lo (Notre Dame), Rafael Henrique (Temple Univ)

PhD Thesis Committee: Jong-Ha Lee 2011;

Master Thesis Committee for Xiaoguang Li, 2012