# **Associate Professor Li Xianfeng**

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# Academic Qualification:

**Ph.D.** in School of Computing, National University of Singapore, 2005.

B.Sc. in School of Computer and Control, Beijing Institute of Technology, 1995.

# Teaching Area

Computer Architecture Networked Embedded Systems High-Performance Networking

#### Research Area

Edge Intelligence (Edge AI)
Smart Internet of Things (AIoT)
High-Performance Networking

#### Working Experience

09/2019 - Present	International Institute for Next Generation Internet, Macau University of Science and Technology, Associate Professor.
08/2009 - 08/2019	School of Electronic and Computer Engineering, Peking University
	Shenzhen Graduate School, Associate Professor
06/2008 – 09/2009	Microprocessor Research and Development Center, Peking University
	Shenzhen Graduate School, Lecturer
01/2006 - 05/2008	School of EECS, Peking University, Post-Doc Researcher
08/1995 – 12/2000	Information Center of China NORINCO Group, Engineer & Assistant Head
	of Department

# Academic Publication (selected)

- Xianfeng Li and Yan Huang. "A Flow Table with Two-Stage Timeout Mechanism for SDN Switches," IEEE 21st International Conference on High Performance Computing and Communications (HPCC), 2019.
- 2. **Xianfeng Li**, Jie Chen, Fan Deng, and Hui Li, "Profit-Driven Adaptive Moving Targets Search with UAV Swarms," **MDPI Sensors**, 19(7), 2019, pp.1545-1560.

- 3. Wenjun Li, **Xianfeng Li**, Hui Li, and Gaogang Xie, "CutSplit: A Decesion-Tree Combining Cutting and Splitting for Scalable Packet Classification," in the IEEE Conference on Computer Communications (**INFOCOM**), Hawaii, USA, 2018, pp.2645-2653.
- 4. **Xianfeng Li**, Tao Zhang and Janfeng Li, "A Particle Swarm Mobility Model for Flying Ad Hoc Networks," in IEEE Global Communications Conference (**GLOBECOM**), Singapore, 2017, pp.1-6.
- 5. **Xianfeng Li** and Jiaojiao Yan, "LEPR: Link Stability Estimation-based Preemptive Routing protocol for Flying Ad Hoc Networks," in 2017 IEEE Symposium on Computers and Communications (ISCC), 2017, pp. 1079–1084.
- 6. **Xianfeng Li** and Wencong Xie, "CRAFT: A Cache Reduction Architecture for Flow Tables in Software-Defined Networks," in 2017 IEEE Symposium on Computers and Communications (ISCC), 2017, pp. 967–972.
- 7. **Xianfeng Li**, Guikang Chen, "Energy-Efficient Execution for Repetitive App Usage Scenarios on big.LITTLE Architectures," in ACM/IEEE Design Automation Conference (**DAC**), Austin,, USA, 2017, pp.1-6.
- 8. **Xianfeng Li**, Yuanxin Lin, "TaPaC: A TCAM-Assisted Algorithmic Packet Classification with Bounded Worst-Case Performance," in IEEE Global Communications Conference (**GLOBECOM**), Washington DC, USA, 2016, pp.1-6.
- 9. **Xianfeng Li** and Tao Zhang, "STGM: A Spatiotemporally Correlated Group Mobility Model for Flying Ad Hoc Networks," in China Communications and Networking, 2016 (ChinaCom), pp. 391–400. (Best Paper Award)
- 10. **Xianfeng Li**, Yuanxin Lin, and Wenjun Li, "GreenTCAM: A memory- and energy-efficient TCAM-based packet classification," in 2016 International Conference on Computing, Networking and Communications (ICNC), 2016, pp. 1–6.
- 11. Tao Zhang, **Xianfeng Li**, and Rong-Zuo Guo, "Producing virtual face images for single sample face recognition," Optik International Journal for Light and Electron Optics, vol. 125, no. 17, pp. 5017–5024, Sep. 2014.
- 12. Ransheng Shen, **Xianfeng Li**, Hui Li, "A space- and power-efficient multi-match packet classification technique combining TCAMs and SRAMs," **The Journal of Supercomputing**, Springer, 69(2), 2014, pp.673-692.

- 13. Wenjun Li, **Xianefng Li**, "HybridCuts: A Scheme Combining Decomposition and Cutting for Packet Classification," in 2013 IEEE 21st Annual Symposium on High-Performance Interconnects (**HOTI**), 2013, pp.41-48.
- 14. **Xianfeng Li**, Yun Liang, Tulika Mitra, Abhik Roychoudhury, "Chronos: A timing analyzer for embedded software," Elsevier Science of Computer Programming (**SCP**), 69(1-3), 2007, pp.56-67.
- 15. **Xianfeng Li**, Abhik Roychoudhury, Tulika Mitra, "Modeling Out-of-Order Processors for WCET Analysis," **Real-Time Systems**, Springer, 34(3), Nov 2006, pp.195-227.
- 16. **Xianfeng Li**, Tulika Mitra, Abhik Roychoudhury, "**Modeling Control Speculation for Timing Analysis,**" **Real-Time Systems**, Springer, 29(1), Jan 2005, pp.27-58.

# Professional Society Membership

Member of ACM/IEEE/CCF