Wanli Xue

Curriculum Vitae

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Mar. 2015 - University of New South Wales (UNSW), Australia.

Now Ph.D. candidate, Computer Science & Engineering, Advisor: Prof. Aruna Seneviratne and Dr. Wen Hu

Dissertation: "Privacy-preserving Internet of Things Analysis Architecture."

June. 2011 - University of Tasmania, Australia.

Dec. 2013 M.Sc., Computer Science,

Advisor: Prof. Byeong Kang

Dissertation: "Arduface: An Embedded System Analysis Tool."

Sep. 2007 - University of Tasmania, Australia & Shanghai Ocean University, China.

O Jul. 2011 B.Sc., Computer Information System; B.Bm., Business Information System

Awards and Honors

- o March 2017 IEEE&ACM IPSN Student Travel Award, IEEE&ACM IPSN 2017.
- o March 2017 PRSS Conference Travel Fund, UNSW.
- o 2015 2018 Australian Postgraduate Award, Australia.
- o 2015 2018 Research Project Top-up Scholarship, NICTA.
- o June 2012 Golden Key International Honour Society, Top 15% Students Invited, Worldwide.
- o 2011 2013 **Postgraduate Scholarship**, UTAS.

Research Experience

Mar. 2015 - Networks Research Group.

Now DATA61 (formerly National ICT Australia), CSIRO, Sydney, Australia *Ph.D. Research Assistant*

Mar. 2013 - Smart Services and Systems research group.

o Feb. 2015 Department of Computer Science, UTAS, Hobart, Australia Postgraduate Research Assistant

Teaching Experience

2017,2018 S1 Tutor for BIOM9450: Clinical Information System.

School of Biomedical Science & Engineering, UNSW Lecturer in Charge: Scientia Professor Nigel Lovell.

2016,2017 **Supervise Undergraduates**.

School of Computer Science & Engineering, UNSW Andrew Peacock with thesis titled: Benchmarking for different privacy-preserving systems. Albert Kerr with thesis titled: Privacy-preserving cloud services for Internet of Things.

Publications

Journal

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- J.1 Q.Yang, Y. Shen, F. Yang, J. Zhang, W. Xue, and H. Wen, "HealCam: Energy-efficient and privacypreserving human vital cycles monitoring on camera-enabled smart devices," Elsevier Computer Networks.
- J.2 W. Xue, Y. Shen, C. Luo, W. Hu, and A. Seneviratne, "Toward Privacy-preserving Edge-based Classification with Differential Privacy," Submitted to ACM Transactions on Internet of Things.
- J.3 C. Luo, X. Liu, W. Xue, Y. Shen, J. Li, W. Hu, and Alex X. Liu, "Predictable Privacy-Preserving Mobile Crowd Sensing: A Tale of Two Roles," Submitted to IEEE/ACM Transactions on Networking.

Conference Proceedings

- C.1 W. Xue, D. Vatsalan, W. Hu and A. Seneviratne, "Sequence Data Matchings and Beyond: New Privacypreserving Primitives based on Bloom Filters," In (submitting) Targeting Rank A security conference.
- C.2 W. Xue, Y. Shen, W. Hu, and A. Seneviratne, "Acies: A Privacy-Preserving System for Edge-based Classification," In The 17th IEEE International Conference On Trust, Security And Privacy In Computing And Communications (Trustcom), April 2018. (ERA Rank A)
- C.3 W. Xue, C. Luo, G. Lan, R. Rana, W. Hu, and A. Seneviratne, "Kryptein: A Compressive-Sensing-Based Encryption Scheme for the Internet of Things," In ACM/IEEE International Conference on Information Processing on Sensor Networks (IPSN), April 2017. (Acceptance rate: 19/104=18% ERA Rank A*)
- C.4 W. Xue, H. Chung, SC. Han, Y. Kim, and BH. Kang, "Arduface: An Embedded System Analysis Tool," In Pacific Rim International Conference on Artificial Intelligence (PRICAI), Dec 2014. (ERA Rank B)

Poster & Demo Abstract

A.1 W. Xue, C. Luo, R. Rana, W. Hu and A. Seneviratne, "CScrypt: A Compressive-Sensing-Based Encryption Engine for the Internet of Things: Demo Abstract," In Proceedings of the 14th ACM Conference on Embedded Network Sensor Systems (Sensys), Now 2016.

Professional Activities

Review Service for Journal

o IEEE Access

External Review Service for Conference

- o 2018: IEEE ICDCS ,ACM/IEEE IPSN
- o 2017: ACM SenSys, IEEE LCN, ACM/IEEE IoTDI
- o 2016: ACM SenSys

Presentations

Conference Presentations

- o "Kryptein: A Compressive-Sensing-Based Encryption Scheme for the Internet of Things," Oral Presentation at IEEE&ACM IPSN'17, Pittsburgh, Pennsylvania, USA, April 2017.
- o "CScrypt: A Compressive-Sensing-Based Encryption Engine for the Internet of Things," Demo Presentation at IEEE Sensys'16, Stanford, CA, USA, November 2016.

References

Dr. Wen Hu

Senior Lecturer
School of Computer Science and Engineering
University of New South Wales, Australia

☑ wen.hu@unsw.edu.au

**** +61 2 9385 7679

Dr. Aruna Seneviratne

Professor School of Electrical Engineering University of New South Wales, Australia

☐ a.seneviratne@unsw.edu.au

**** +61 2 9385 5389