

Xiaodong Lin, PhD

Associate Professor, Faculty of Business Information Technology at University of Ontario Institute of Technology

Oshawa, ON, CA

International security and privacy expert explores measures to protect mobile users'™ personal data

Description

Mobile social networks are swelling with personal information that if hacked could lead to identity theft, financial loss and even personal exploitation. Exploring the evolution of the information age, Xiaodong Lin, PhD, Associate Professor in the Faculty of Business and Information Technology, aims to help mobile social network users protect the privacy and security of their personal data, while maintaining the ease of a wireless world.

Internationally, he is best known for his published Bibliography on Secure Vehicle Communications, outlining improved protocols to protect communication between vehicles and with the Internet from being hacked either for personal information or potentially causing an accident to occur. He introduced the concept of conditional privacy for vehicular communications and it has become a key automotive design objective to ensure security and privacy protection for vehicular ad hoc networks. His research has many critical applications including increased road safety and improved traffic management.

A Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), Dr. Lin is Chair of the IEEE Communication Society's™ Communication and Information Security Technical Committee. As an accomplished author, he has co-written Vehicular Ad Hoc Network Security and Privacy, and Security and Privacy in Mobile Social Networks, and co-edited Networking for Big Data; and his research has received numerous international best paper awards. He joined UOIT in 2008 as an Assistant Professor, and is an Adjunct Professor in the Department of Electrical and Computer Engineering in the Faculty of Engineering at the University of Waterloo, in Waterloo, Ontario, and Central South University in Changsha, China. He is a Certified Information Systems Security Professional (CISSP) since 2002.

He moved to Canada in 1999 to pursue a two-year post-doctoral fellowship in the School of Computer Science at the University of Waterloo, then spent five years in industry, before receiving a Doctorate in Electrical and Computer Engineering, and a Certificate in University Teaching concurrently at the University of Waterloo. He also holds a Doctorate in Information Engineering from Beijing University of Posts and Telecommunications in Beijing, China, a Master of Science in Computer Science from East Normal University in Shanghai, China, and a Bachelor of Applied Science from Nanjing University of Posts and Telecommunications in Nanjing, China.

Industry Expertise

Computer Software, Computer/Network Security, Computer Networking, Education/Learning, Information Technology and Services, Research, Security, Social Media, Wireless

Topics

Wireless Network Security , Applied cryptography, Computer Forensics, Software Security, Wireless Networking and Mobile Computing

Affiliations

Institute of Electrical and Electronic Engineers (IEEE)

Past Talks

Keynote: Enterprise Wireless Network Security and Protection
The First International Workshop on Cyber Security

Keynote: Security and Privacy in Mobile Social Networks
ACM International Workshop on Mobility and MiddleWare Management in HetNets

Toward Secure User-Habit-Oriented Authentication for Mobile Devices
2014 IEEE Global Communications Conference

Secure and Effective Image Storage for Cloud Based E-healthcare Systems
IEEE Global Communications Conference 2013

Detecting GPS Information Leakage in Android Applications
IEEE Global Communications Conference 2013

Social-Aware Trustworthy Data Forwarding in Vehicular Delay Tolerant Networks
Invited Talk, Central South University, China

Computer Forensics of Unallocated Space
Invited Talk, National University of Defense Technology

Towards Secure and Forensic Computing: Multimedia Forensics and Cross-Layer Design for Wireless Network Security
Invited talk at Harbin Institute of Technology, Shenzhen Graduate School

Best Paper Award: Location-release Signature for Vehicular Communications
The 18th International Conference on Computer Communications and Networks (ICCCN 2009)

Best Paper Award: ASRPAKE: An Anonymous Secure Routing Protocol with Authenticated Key Exchange for Wireless Ad Hoc Networks
IEEE International Conference on Communications

Education

University of Waterloo
PhD Electrical and Computer Engineering

University of Waterloo
Certificate University Teaching

Beijing University of Posts and Telecommunications
PhD Information Engineering

East China Normal University
MSc Computer Science

Nanjing University of Posts and Telecommunications
BAsC Computer Science and Technology

Accomplishments

Adjunct Professor, Faculty of Engineering, University of Waterloo

Dr. Lin is an Adjunct Professor in the university's Department of Electrical and Computer Engineering.

Adjunct Professor, Central South University

Dr. Lin is an Adjunct Professor in the Changsha, China university.

Best Paper Award, IEEE International Conference on E-Health Networking, Application and Services

Awarded for his paper in the conference proceedings entitled: Efficient E-health Data Release with Consistency Guarantee under Differential Privacy.

Best Paper Award, The 18th International Conference on Computer Communications and Networks (ICCCN 2009)

Awarded for his paper in the conference proceedings entitled: Location-release Signature for Vehicular Communications.

Senior Member, IEEE

For his contributions to his field, he was elevated to Senior Member of IEEE. He also serves as Associate Editor of IEEE Network.

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