

Singapore Management University (SMU)

Education

PhD, Illinois Institute of Technology, United States of America, 1985

Master of Science, Illinois Institute of Technology, United States of America, 1983

Bachelor of Engineering, National University of Defence Technology, China, 1981

Academic Appointments

Professor of Computer Science, School of Computing and Information Systems, Singapore Management University, Singapore, Jul 2018 - Present

AXA Chair Professor of Cybersecurity, School of Computing and Information Systems, SMU, Mar 2017 - Mar 2025

Professor of Information Systems, School of Computing and Information Systems, SMU, Jul 2004 - Mar 2017

Senior Lecturer, Department of Electrical and Computer Engineering, National University of Singapore, Singapore, Jul 1991 - Jun 1994

Postdoctoral Research Associate, University of Notre Dame, United States of America, Jan 1986 - Jun 1987

Academic Administrative Positions

Director, Secure Mobile Centre, Centre on Security, Mobile Applications and Cryptography, SMU, Jul 2023 - Jun 2024

Deputy Dean, Faculty & Research, School of Computing and Information Systems, SMU, Jul 2018 - Present

Dean, College of Graduate Research Studies, SMU, Sep 2016 - Jun 2018

Director, Secure Mobile Centre, Secure Mobile Centre, SMU, Feb 2015 - Jun 2024

Associate Dean (Faculty), School of Computing and Information Systems, SMU, Jul 2012 - Jun 2015

Director, SCIS Research Centre (External Funded), SMU, Aug 2004 - Jun 2012

Director, SCIS Research Centre (External Funded), SMU, Jul 2004 - Jun 2008

Senior Research Staff Member and Manager of Information Security Group, Institute of System Science, National University of Singapore, Singapore, Jan 1994 - Jan 1998

Research Staff Member and Project Leader of Communications Group, Institute of Systems Science, National University of Singapore, Singapore, Jul 1987 - Jun 1991

Other Positions and Affiliations

Principle Scientist and Department Manager, Institute for Infocomm Research Infocomm Security Department, Agency for Science, Technology and Research (A*STAR), Singapore, Apr 2002 - Jun 2004

Principal Research Staff Member and Director (Ubiquitous and Distributed Computing Program), Lab for Information Technology, A*STAR, Singapore, Apr 2001 - Mar 2002

Principal Research Staff Member and Deputy Director of Ubiquity Lab, Kent Ridge Digital Labs, National Science and Technology Board, Singapore, Jan 1998 - Mar 2001

Awards and Honors

Fellow, Asia-Pacific Artificial Intelligence Association (AAIA), 2025

Zhongni Distinguished Educator Award, Singapore Management University, 2025

Outstanding Paper Award, 21st IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom 2022), 2022

Best Paper Award, IEEE Conference on Dependable and Secure Computing (IEEE DSC 2022), 2022

The Public Administration Medal (Silver), Singapore National Day Awards 2020, Singapore President Office, 2020

The Public Administration Medal (Silver), Singapore National Day Awards 2020, 2020

Best Paper, 25th European Symposium on Research in Computer Security (ESORICS) 2020, 2020

Fellow, Academy of Engineering Singapore, 2019

AXA Chair Professor of Cybersecurity, AXA Research Fund, 2018

2017 Best Journal Paper Award, IEEE Communications Society, Big Data Technical Committee, 2017

Huawei Distinguished Collaboration Project Award, Shield Lab, Huawei, 2016

Fellow, IEEE, 2016

Best Paper Award, The 13th Joint IFIP TC6 and TC11 Conference on Communications and Multimedia Security (CMS 2012), Canterbury, UK., International Federation for Information Processing, 2012

Distinguished Paper Award, The 19th Network and Distributed System Security Symposium (NDSS 2012), San Diego, USA., Internet Society, 2012

Asia-Pacific Information Security Leadership Achievements (ISLA) Community Service Star and Showcased Senior Information Security Professional, International Information Systems Security Certification (ISC)2, 2010, (ISC)2, 2010

Lee Kuan Yew Fellow for Research Excellence, 2006., Singapore Management University, 2005

Role Model for the category of Principal Research Staff Member, Singapore, 2002., Laboratories for Information Technology, 2002

University Outstanding Researcher Award, Singapore, November 1999., National University of Singapore, 1999

Excellent Graduate Certificate, National University of Defense Technology, China, December 1981., National University of Defense Technology, 1982

RESEARCH

Publications

Journal Articles [Refereed]

ROBY: A Byzantine-robust and privacy-preserving serverless federated learning framework, by TANG, Xiangyun; LI, Minyang; SHEN, Meng; KANG, Jiawen; ZHU, Liehuang; LIU, Zhiquan; YANG, Guomin; NIYATO, Dusit; DENG, Robert H.. (2025). *IEEE Transactions on Information Forensics and Security*, 20 (7824), 7838-3965. <https://doi.org/10.1109/TIFS.2025.3589066> (Published)

Trace your footprint: Efficient spatial keyword query over encrypted trajectory data, by MIAO, Yinbin; WANG, Xin; ZHANG, Shu; LI, Xinghua; XU, Shujiang; LIU, Zhiquan; CHOO, Kin-Kwang Raymond; DENG, Robert H.. (2025). *IEEE Transactions on Information Forensics and Security*, 20 11936-11949. <https://doi.org/10.1109/TIFS.2025.3624950> (Published)

Privacy-preserving ridge regression over encrypted data under multiple keys, by LI, Yanling; LAI, Junzuo; SUN, Meng; SONG, Beibei; DENG, Robert H.. (2025). *IEEE Transactions on Dependable and Secure Computing*, 22 (5), 4847-4860. <https://doi.org/10.1109/TDSC.2025.3554563> (Published)

SIGFinger: A subtle and interactive GNN fingerprinting scheme via spatial structure inference perturbation, by JIA, Ju; LI, Renjie; WU, Cong; MA, Siqu; WANG, Lina; DENG, Robert H.. (2025). *IEEE Transactions on Dependable and Secure Computing*, 22 (4), 3629-3646. <https://doi.org/10.1109/TDSC.2025.3535588> (Published)

Sanitizable cross-domain access control with policy-driven dynamic authorization, by SUN, Jianfei; XU, Guowen; LI, Hongwei; ZHANG, Tianwei; WU, Cong; YANG, Xuehuan; DENG, Robert H.. (2025). *IEEE Transactions on Dependable and Secure Computing*, 22 (4), 4126-4142. <https://doi.org/10.1109/TDSC.2025.3541819> (Published)

An incentive mechanism for privacy preserved data trading with verifiable data disturbance, by ZHANG, Man; LI, Xinghua; LUO, Bin; REN, Yanbing; MIAO, Yinbin; LIU, Ximeng; DENG, Robert H.. (2025). *IEEE Transactions on Dependable and Secure Computing*, 22 (4), 3960-3976. <https://doi.org/10.1109/TDSC.2025.3542773> (Published)

Understanding the bad development practices of Android custom permissions in the wild, by ZHANG, Xiaohan; YU, Zhiyuan; LI, Xinghua; ZHANG, Cen; SUN, Cong; ZHANG, Ning; DENG, Robert H.. (2025). *IEEE Transactions on Dependable and Secure Computing*, 22 (4), 3208-3223. <https://doi.org/10.1109/TDSC.2024.3525049> (Published)

AccCred: Improved accountable anonymous credentials with dynamic triple-hiding committees, by XIE, Sijiang; SHI, Rui; YANG, Yang; XIE, Huiqin; LI, Yingjiu; DENG, Robert H.. (2025). *IEEE Transactions on Dependable and Secure Computing*, 22 (3), 1961-1975. <https://doi.org/10.1109/TDSC.2024.3474060> (Published)

Moving target defense meets artificial-intelligence-driven network: A comprehensive survey, by ZHANG, Tao; KONG, Fanyu; DENG, Dongshang; TANG, Xiangyun; WU, Xuangou; XU, Changqiao; ZHU, Liehuang; LIU, Jiqiang; AI, Bo; HAN, Zhu; DENG, Robert H.. (2025). *IEEE Internet of Things Journal*, 12 (10), 13384-13397. <https://doi.org/10.1109/JIOT.2025.3533016> (Published)

Robust federated learning client selection with combinatorial class representations and data augmentation, by ZHANG, Haiyan; LI, Xinghua; XU, Mengfan; YUAN, Shunjie; ZHU, Mengyao; DENG, Robert H.. (2025). *IEEE Transactions on Information Forensics and Security*, 20 (1), 6086-6100. <https://doi.org/10.1109/TIFS.2025.3579290> (Published)

Keyword-pair result pattern hiding structured encryption for Boolean queries, by CHEN, Lanxiang; MU, Yi; YANG, Jiahui; DENG, Robert H.. (2025). *IEEE Transactions on Information Forensics and Security*, 20 (1), 8449-8461. <https://doi.org/10.1109/TIFS.2025.3594578> (Published)

Oblivious encrypted keyword search with fine-grained access control for cloud storage, by TONG, Qiuyun; DENG, Junyi; LI, Xinghua; MIAO, Yinbin; WANG, Yunwei; DENG, Robert H.. (2025). *IEEE Transactions on Information Forensics and Security*, 20 5521-5533. <https://doi.org/10.1109/TIFS.2025.3574985> (Published)

PLRQ: Practical and less leakage range query over encrypted mobile cloud data, by WANG, Yunwei; LI, Xinghua; MIAO, Yinbin; TONG, Qiuyun; LIU, Ximeng; DENG, Robert H.. (2025). *IEEE Transactions on Mobile Computing*, 24 (5), 4183-4201. <https://doi.org/10.1109/TMC.2024.3521366> (Published)

Quantum-resistant sharding blockchain and Its application in secure data transmission, by LIU, Yizhong;

ZHAO, Boyu; LIN, Xun; GUAN, Zhenyu; LI, Dawei; LIU, Jianwei; WU, Qianhong; SUSILO, Willy; DENG, Robert H.. (2025). *IEEE Journal on Selected Areas in Communications*, 43 (8), <https://doi.org/10.1109/JSAC.2025.3568043> (Advance Online)

Efficient homomorphic-encryption-based secure search in multiowner setting for Internet of Things, by WANG, Yibing; MIAO, Yinbin; LI, Xinghua; LENG, Tao; LIU, Zhiquan; LIU, Ximeng; CHOO, Kim-Kwang Raymond; DENG, Robert H.. (2025). *IEEE Internet of Things Journal*, 12 (7), 8885-8896. <https://doi.org/10.1109/JIOT.2024.3502919> (Published)

Distributional black-box model inversion attack with multi-agent reinforcement learning, by BAO, Huan; WEI, Kaimin; WU, Yongdong; QIAN, Jin; DENG, Robert H.. (2025). *IEEE Transactions on Information Forensics and Security*, 20 (1), 5425-5437. <https://doi.org/10.1109/TIFS.2025.3564043> (Published)

DkvSSO: Delegatable keyed-verification credentials for efficient anonymous single sign-on, by XUE, Wenyi; YANG, Yang; HUANG, Minming; LI, Yingjiu; PANG, HweeHwa; DENG, Robert H.. (2025). *IEEE Transactions on Information Forensics and Security*, 20 (1), 4196-4211. <https://doi.org/10.1109/TIFS.2025.3555196> (Published)

Forward-secure hierarchical delegable signature for smart homes, by SUN, Jianfei; XU, Guowen; YANG, Yang; YANG, Xuehuan; LI, Xiaoguo; CONG, Wu; ZHEN, Liu; YANG, Guomin; DENG, Robert H.. (2025). *IEEE Transactions on Information Forensics and Security*, 20 1-15. <https://doi.org/10.1109/TIFS.2025.3555185> (Advance Online)

DCASR: Distributed collaborative authentication with specified security strength and resource optimization selection in AAV networks, by ZHAO, Xinyi; WANG, Yunwei; LI, Xinghua; MIAO, Yinbin; DENG, Robert H.. (2025). *IEEE Internet of Things Journal*, 12 (6), 7652-7666. <https://doi.org/10.1109/JIOT.2024.3498067> (Published)

Enhanced model poisoning attack and multi-strategy defense in federated learning, by YANG, Li; MIAO, Yinbin; LIU, Ziteng; LIU, Zhiquan; LI, Xinghua; KUANG, Da; LI, Hongwei; DENG, Robert H.. (2025). *IEEE Transactions on Information Forensics and Security*, 20 (1), 3877-3892. <https://doi.org/10.1109/TIFS.2025.3555193> (Published)

Efficient and secure geometric range search over encrypted spatial data in mobile cloud, by MIAO, Yinbin; WANG, Guijuan; LI, Xinghua; LI, Hongwei; CHOO, Kim-Kwang Raymond; DENG, Robert H.. (2025). *IEEE Transactions on Mobile Computing*, 24 (3), 1621-1635. <https://doi.org/10.1109/TMC.2024.3482321> (Published)

How to securely delegate and revoke partial authorization credentials, by SUN, Meng; LAI, Junzuo; WU, Wei; YANG, Ye; CHU, Cheng-Kang; DENG, Robert H.. (2025). *IEEE Transactions on Dependable and Secure Computing*, 22 (2), 979-996. <https://doi.org/10.1109/TDSC.2024.3424520> (Published)

Private reachability queries on structured encrypted temporal bipartite graphs, by WU, Yulin; CHEN, Lanxiang; CHEN, Gaolin; MU, Yi; DENG, Robert H.. (2025). *IEEE Transactions on Dependable and Secure Computing*, 22 (2), 1810-1826. <https://doi.org/10.1109/TDSC.2024.3473808> (Published)

Enforcing differential privacy in federated learning via long-term contribution incentives, by TANG, Xiangyun; PENG, Luyao; WENG, Yu; SHEN, Meng; ZHU, Liehuang; DENG, Robert H.. (2025). *IEEE Transactions on Information Forensics and Security*, 20 (1), 3102-3115. <https://doi.org/10.1109/TIFS.2025.3550777> (Published)

Combating noisy labels by alleviating the memorization of DNNs to noisy labels, by YUAN, Shunjie; LI, Xinghua; MIAO, Yinbin; ZHANG, Haiyan; LIU, Ximeng; DENG, Robert H.. (2025). *IEEE Transactions on Multimedia*, 27 (1), 597-609. <https://doi.org/10.1109/TMM.2024.3521722> (Published)

Privacy-preserving user recruitment with sensing quality evaluation in mobile crowdsensing, by AN, Jieying; REN, Yanbing; LI, Xinghua; ZHANG, Man; LUO, Bin; MIAO, Yinbin; LIU, Ximeng; DENG, Robert H.. (2025). *IEEE Transactions on Dependable and Secure Computing*, 22 (1), 787-803. <https://doi.org/10.1109/TDSC.2024.3418869> (Published)

FDL: Fair and discrepancy-aware incentive mechanism for federated learning, by CHEN, Zhe; ZHANG, Haiyan; LI, Xinghua; MIAO, Yinbin; ZHANG, Xiaohan; ZHANG, Man; MA, Siqi; DENG, Robert H.. (2024). *IEEE Transactions on Information Forensics and Security*, 19 8140-8154. <https://doi.org/10.1109/TIFS.2024.3433537> (Published)

BADFL: Backdoor attack defense in federated learning from local model perspective, by ZHANG, Haiyan;

LI, Xinghua; XU, Mengfan; LIU, Ximeng; WU, Tong; WENG, Jian; DENG, Robert H.. (2024). *IEEE Transactions on Knowledge and Data Engineering*, 36 (11), 5661-5674. <https://doi.org/10.1109/TKDE.2024.3420778> (Published)

Lightweight privacy-preserving cross-cluster federated learning with heterogeneous data, by CHEN, Zekai; YU, Shengxing; CHEN, Farong; WANG, Fuyi; LIU, Ximeng; DENG, Robert H.. (2024). *IEEE Transactions on Information Forensics and Security*, 19 7404-7419. <https://doi.org/10.1109/TIFS.2024.3435476> (Published)

A pruned pendant vertex based index for shortest distance query under structured encrypted graph, by HU, Mengdi; CHEN, Lanxiang; CHEN, Gaolin; MU, Yi; DENG, Robert H.. (2024). *IEEE Transactions on Information Forensics and Security*, 19 6351-6363. <https://doi.org/10.1109/TIFS.2024.3414156> (Published)

A survey of protocol fuzzing, by ZHANG, Xiaohan; ZHANG, Cen; LI, Xinghua; DU, Zhengjie; MAO, Bing; LI, Yeting; LI, Pan, YANG, Liu, DENG, Robert. (2024). *ACM Computing Surveys*, 57 (2), 1-36. <https://doi.org/10.1145/3696788> (Published)

Efficient and privacy-preserving encode-based range query over encrypted cloud data, by LIANG, Yanrong; MA, Jianfeng; MIAO, Yinbin; SU, Yuan; DENG, Robert H.. (2024). *IEEE Transactions on Information Forensics and Security*, 19 9085-9099. <https://doi.org/10.1109/TIFS.2024.3465928> (Published)

Efficient and secure federated learning against backdoor attacks, by MIAO, Yinbin; XIE, Rongpeng; LI, Xinghua; LIU, Zhiquan; CHOO, Kim-Kwang Raymond; DENG, Robert H.. (2024). *IEEE Transactions on Dependable and Secure Computing*, 21 (5), 4619-4636. <https://doi.org/10.1109/TDSC.2024.3354736> (Published)

Privacy-preserved data disturbance and truthfulness verification for data trading, by ZHANG, Man; LI, Xinghua; MIAO, Yinbin; LUO, Bin; XU, Wanyun; REN, Yanbing; DENG, Robert H.. (2024). *IEEE Transactions on Information Forensics and Security*, 19 5545-5560. <https://doi.org/10.1109/TIFS.2024.3402162> (Advance Online)

SOCI+: An enhanced toolkit for secure outsourced computation on integers, by ZHAO, Bowen; DENG, Weiquan; LI, Xiaoguo; LIU, Ximeng; PEI, Qingqi; DENG, Robert H.. (2024). *IEEE Transactions on Information Forensics and Security*, 19 5607-5619. <https://doi.org/10.1109/TIFS.2024.3402173> (Published)

SIMC 2.0: Improved secure ML inference against malicious clients, by XU, Guowen; HAN, Xingshuo; ZHANG, Tianwei; XU, Shengmin; NING, Jianting; HUANG, Xinyi; LI, Hongwei; DENG, Robert H.. (2024). *IEEE Transactions on Dependable and Secure Computing*, 21 (4), 1708-1723. <https://doi.org/10.1109/TDSC.2023.3288557> (Published)

REKS: Role-based Encrypted Keyword Search with enhanced access control for outsourced cloud data, by MIAO, Yinbin; LI, Feng; JIA, Xiaohua; WANG, Huaxiong; LIU, Ximeng; CHOO, Kim-Kwang Raymond; DENG, Robert H.. (2024). *IEEE Transactions on Dependable and Secure Computing*, 21 (4), 3247-3261. <https://doi.org/10.1109/TDSC.2023.3324640> (Published)

AnoPas: Practical anonymous transit pass from group signatures with time-bound keys, by SHI, Rui; YANG, Yang; LI, Yingjiu; FENG, Huamin; PANG, Hwee Hwa; DENG, Robert H.. (2024). *The Journal of Systems Architecture: Embedded Software Design*, 153 1-13. <https://doi.org/10.1016/j.sysarc.2024.103184> (Published)

Privacy-preserved data trading via verifiable data disturbance, by ZHANG, Man; LI, Xinghua; REN, Yanbing; LUO, Bin; MIAO, Yinbin; LIU, Ximeng; DENG, Robert H.. (2024). *IEEE Transactions on Dependable and Secure Computing*, 21 (4), 3126-3140. <https://doi.org/10.1109/TDSC.2023.3323669> (Published)

Robust asynchronous federated learning with time-weighted and stale model aggregation, by MIAO, Yinbin; LIU, Ziteng; LI, Xinghua; LI, Meng; LI, Hongwei; CHOO, Kim-Kwang Raymond; DENG, Robert H.. (2024). *IEEE Transactions on Dependable and Secure Computing*, 21 (4), 2361-2375. <https://doi.org/10.1109/TDSC.2023.3304788> (Published)

AnoPay: Anonymous payment for vehicle parking with updatable credential, by YANG, Yang; XUE, Wenyi; ZHAN, Yonghua; HUANG, Minming; LI, Yingjiu; DENG, Robert H.. (2024). *IEEE Transactions on Dependable and Secure Computing*, 21 (4), 1621-1638. <https://doi.org/10.1109/TDSC.2023.3287228> (Published)

Verifiable outsourced attribute-based encryption scheme for cloud-assisted mobile e-health system, by MIAO, Yinbin; LI, Feng; LI, Xinghua; NING, Jianting; LI, Hongwei; CHOO, Kim-Kwang Raymond; DENG,

Robert H.. (2024). *IEEE Transactions on Dependable and Secure Computing*, 21 (4), 1845-1862. <https://doi.org/10.1109/TDSC.2023.3292129> (Published)

FDFL: Fair and discrepancy-aware incentive mechanism for federated learning, by CHEN, Zhe; ZHANG, Haiyan; LI, Xinghua; MIAO, Yinbin; ZHANG, Xiaohan; ZHANG, Man; MA, Siqi; DENG, Robert H.. (2024). *IEEE Transactions on Information Forensics and Security*, 19 <https://doi.org/10.1109/TIFS.2024.3433537> (Published)

SDSS: Sequential data sharing system in IoT, by LAI, Jianchang; SUSILO, Willy; DENG, Robert H.; GUO, Fuchun. (2024). *IEEE Transactions on Information Forensics and Security*, 19 2288-2299. <https://doi.org/10.1109/TIFS.2023.3348229> (Published)

STDA: Secure Time Series Data Analytics with practical efficiency in wide-area network, by LI, Xiaoguo; HUANG Zixi; ZHAO, Bowen; YANG, Guomin; XIANG, Tao; DENG, Robert H.. (2024). *IEEE Transactions on Information Forensics and Security*, 19 1440-1454. <https://doi.org/10.1109/TIFS.2023.3336512> (Published)

EvilScreen attack: Smart TV hijacking via multi-channel remote control mimicry, by ZHANG, Yiwei; MA, Siqi; CHEN, Tiancheng; LI, Juanru; DENG, Robert H.; BERTINO, Elisa. (2024). *IEEE Transactions on Dependable and Secure Computing*, 21 (4), 1544-1556. <https://doi.org/10.1109/TDSC.2023.3286182> (Published)

Double issuer-hiding attribute-based credentials from tag-based aggregatable mercurial signatures, by SHI, Rui; YANG, Yang; LI, Yingjiu; FENG, Huamin; SHI, Guozhen; PANG, Hwee Hwa; DENG, Robert H.. (2024). *IEEE Transactions on Dependable and Secure Computing*, 21 (4), 2585-2602. <https://doi.org/10.1109/TDSC.2023.3314019> (Published)

An adaptive secure and practical data sharing system with verifiable outsourced decryption, by XU, Shengmin; HAN, Xingshuo; XU, Guowen; NING, Jianting; HUANG, Xinyi; DENG, Robert H.. (2024). *IEEE Transactions on Services Computing*, 17 (3), 776-788. <https://doi.org/10.1109/TSC.2023.3321314> (Published)

PkT-SIN: A secure communication protocol for space information networks with periodic k-time anonymous authentication, by YANG, Yang; XUE, Wenyi; SUN, Jianfei; YANG, Guomin; LI, Yingjiu; PANG, Hwee Hwa; DENG, Robert H.. (2024). *IEEE Transactions on Information Forensics and Security*, 19 6097-6112. <https://doi.org/10.1109/TIFS.2024.3409070> (Published)

Time-controllable keyword search scheme with efficient revocation in mobile e-health cloud, by MIAO, Yinbin; LI, Feng; LI, Xinghua; LIU, Zhiquan; NING, Jianting; LI, Hongwei; CHOO, Kim-Kwang Raymond; DENG, Robert H.. (2024). *IEEE Transactions on Mobile Computing*, 23 (5), 3650-3665. <https://doi.org/10.1109/TMC.2023.3277702> (Published)

A survey on searchable symmetric encryption, by LI, Feng; MA, Jianfeng; MIAO, Yinbin; LIU, Ximeng; NING, Jianting; DENG, Robert H.. (2024). *ACM Computing Surveys*, 56 (5), 1-42. <https://doi.org/10.1145/3617991> (Published)

FIgan: GAN-based unbiased federated learning under non-IID settings, by MA, Zhuoran; LIU, Yang; MIAO, Yinbin; XU, Guowen; LIU, Ximeng; MA, Jianfeng; DENG, Robert H.. (2024). *IEEE Transactions on Knowledge and Data Engineering*, 36 (4), 1566-1581. <https://doi.org/10.1109/TKDE.2023.3309858> (Published)

FIgan: GAN-based unbiased federated learning under non-IID settings, by MA, Zhuoran; LIU, Yang; MIAO, Yinbin; XU, Guowen; LIU, Ximeng; MA, Jianfeng; DENG, Robert H.. (2024). *IEEE Transactions on Knowledge and Data Engineering*, 36 (4), 1566-1581. <https://doi.org/10.1109/TKDE.2023.3309858> (Published)

PAM3S: Progressive Two-Stage Auction-Based Multi-Platform Multi-User Mutual Selection Scheme in MCS, by LUO, Bin; LI, Xinghua; MIAO, Yinbin; ZHANG, Man; LIU, Ximeng; REN, Yanbing; LUO, Xizhao; DENG, Robert H.. (2024). *IEEE/ACM Transactions on Networking*, 32 (1), 729-744. <https://doi.org/10.1109/TNET.2023.3297258> (Published)

Robust permissioned blockchain consensus for unstable communication in FANET, by WANG, Zihao; WANG, Hang; LI, Zhuowen; LI, Xinghua; MIAO, Yinbin; REN, Yanbing; WANG, Yunwei; REN, Zhe; DENG, Robert H.. (2024). *IEEE/ACM Transactions on Networking*, 32 (1), 699-712. <https://doi.org/10.1109/TNET.2023.3295378> (Published)

Efficient privacy-preserving spatial data query in cloud computing, by MIAO, Yinbin; YANG, Yutao; LI, Xinghua; WEI, Linfeng; LIU, Zhiquan; DENG, Robert H.. (2024). *IEEE Transactions on Knowledge and Data Engineering*, 36 (1), 122-136. <https://doi.org/10.1109/TKDE.2023.3283020> (Published)

A privacy-preserving and redactable healthcare blockchain system, by XU, Shengmin; NING, Jianting; LI, Xiaoguo; YUAN, Jiaming; HUANG, Xinyi; DENG, Robert H.. (2024). *IEEE Transactions on Services Computing*, 17(2), 1-14. <https://doi.org/10.1109/TSC.2024.3356595> (Published)

Privacy-enhancing and robust backdoor defense for federated learning on heterogeneous data, by CHEN, Zekai; YU, Shengxing; FAN, Mingyuan; LIU, Ximeng; DENG, Robert H.. (2024). *IEEE Transactions on Information Forensics and Security*, 19 693-707. <https://doi.org/10.1109/TIFS.2023.3326983> (Published)

Beyond result verification: Efficient privacy-preserving spatial keyword query with suppressed leakage, by TONG, Qiuyun; LI, Xinghua; MIAO, Yinbin; WANG, Yunwei; LIU, Ximeng; DENG, Robert H. . (2024). *IEEE Transactions on Information Forensics and Security*, 19 2746-2760. <https://doi.org/10.1109/TIFS.2024.3354414> (Published)

Oasis: Online all-phase quality-aware incentive mechanism for MCS, by ZHANG, Man; LI, Xinghua; MIAO, Yinbin; LUO, Bin; MA, Siqi; CHOO, Kim-Kwang Raymond; DENG, Robert H.. (2024). *IEEE Transactions on Services Computing*, 17(2), 1-14. <https://doi.org/10.1109/TSC.2024.3354240> (Published)

Privacy-preserving asynchronous federated learning under non-IID settings, by MIAO, Yinbin; KUANG, Da; LI, Xinghua; XU, Shujiang; LI, Hongwei; CHOO, Kim-Kwang Raymond; DENG, Robert H.. (2024). *IEEE Transactions on Information Forensics and Security*, 19 5828-5841. <https://doi.org/10.1109/TIFS.2024.3402149> (Advance Online)

RFed: Robustness-Enhanced Privacy-Preserving Federated Learning against poisoning attack, by MIAO, Yinbin; YAN, Xinru; LI, Xinghua; XU, Shujiang; LIU, Ximeng; LI, Hongwei; DENG, Robert H.. (2024). *IEEE Transactions on Information Forensics and Security*, 19 5814-5827. <https://doi.org/10.1109/TIFS.2024.3402113> (Advance Online)

PIAS: Privacy-Preserving Incentive Announcement System based on Blockchain for Internet of Vehicles, by ZHAN, Yonghua; YANG, Yang; CHENG, Hongju; LUO, Xiangyang; GUAN, Zhuangshuang; DENG, Robert H.. (2024). *IEEE Transactions on Services Computing*, 17(5), 1-14. <https://doi.org/10.1109/TSC.2024.3422813> (Advance Online)

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A new on-line cash check scheme, by DENG, Robert H.; HAN, Yongfei; JENG, Albert B.; NGAIR, Teow-Hin. (1997.0). *Proceedings of the 4th ACM conference on Computer and communications security, Zurich, Switzerland, 1997 April 1-4*, (pp. 111-116) Zurich, Switzerland: ACM. <https://doi.org/10.1145/266420.266444> (Published)

Integrating security in CORBA based object architectures, by DENG, Robert H.; BHONSLE, S. K.; WANG, W.; LAZAR, A. A.. (1995.0). *Proceedings of the 1995 IEEE Symposium on Security and Privacy, Oakland, California, May 8-10*, (pp. 50-61) Oakland, California: IEEE. <https://doi.org/10.1109/SECPRI.1995.398922> (Published)

Conference Papers

A comprehensive study for RFID malwares on mobile devices, by YAN, Qiang; LI, Yingjiu; LI, Tieyan; DENG, Robert H.. (2009.0). *Workshop on RFID Security 5th RFIDsec 2009 Asia, January 9-11, Taipei*. (Presented)

Edited Conference Proceedings

Applied Cryptography and Network Security Workshops: ACNS 2019 Satellite Workshops, SiMLA, Cloud S&P, AIBlock, and AIoTS, Bogota, Colombia, June 5-7: Proceedings, edited by ZHOU, Jianying; DENG, Robert H.; LI, Zhou; MAJUMDAR, Suryadipta; MENG, Weizhi; WANG, Lingyu; ZHANG, Kehuan. (07/06/2019). Lecture Notes in Computer Science, 11605. Cham: Springer. <https://doi.org/10.1007/978-3-030-29729-9> (Published)

Information security practice and experience, edited by BAO, Feng; CHEN, Liquan; DENG, Robert H.; WANG, Guojun. (16/11/2016). Lecture Notes in Computer Science, 10060. Zhangjiajie, China: Springer. (Published)

Security and privacy in communication networks: 12th International Conference, SecureComm 2016, Guangzhou, China, October 10-12, Proceedings, edited by DENG, Robert H.; WENG, Jian; REN, Kui; YEGNESWARAN, Vinod. (12/10/2016). Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, 198. Cham: Springer. <https://doi.org/10.1007/978-3-319-59608-2> (Published)

Information security practice and experience: First International Conference, ISPEC 2005, Singapore, April 11-14: Proceedings, edited by DENG, Robert H.; BAO, Feng; PANG, Hwee Hwa; ZHOU, Jianying. (11/04/2005). Lecture Notes in Computer Science, 3439. Berlin: Springer. <https://doi.org/10.1007/b107167> (Published)

Research Grants

Singapore Management University

Trusted Decentralized Identities, Digital Trust Centre (DTC) Research Grant, National Research Foundation (NRF) , PI (Project Level): YANG Guomin , Co-PI (Project Level): Robert H DENG, 2024, S\$1,613,872

Development of Secured Components & Systems in Emerging Technologies through Hardware & Software Evaluation, National Cybersecurity R&D (NCR) Programme, Cyber Security Agency of Singapore (CSA) , PI (Project Level): DING Xuhua, Debin GAO, Robert H DENG, David LO , Co-PI (Project Level): Guansong PANG, JIANG Lingxiao, DUAN Yue, YANG Guomin, PANG Hwee Hwa, 2023, S\$11,365,070

National Satellite of Excellence in Mobile Systems Security and Cloud Security, National Cybersecurity R&D (NCR) Programme, National Research Foundation (NRF) , PI (Project Level): Robert H DENG , Co-PI (Project Level): Debin GAO, PANG Hwee Hwa, DING Xuhua, LI Yingjiu, 2019, S\$7,498,320

Intelligent and non-intrusive monitoring of Android devices for protection against data-infringing malware, AI Singapore 100 Experiments, AI Singapore , PI (Project Level): Debin GAO , Co-PI (Project Level): David LO, Robert H DENG, 2018, S\$479,616

Building next-generation secure environments on smartphones for critical mobile applications, National Cybersecurity R&D (NCR) Programme, National Research Foundation (NRF) , Co-PI (Project Level): LI Yingjiu, Robert H DENG, 2017, S\$1,208,935.08

Deterring Cybersecurity Threats through Internet Topology, Law Enforcement and Technical Mitigation, National Cybersecurity R&D (NCR) Programme, National Research Foundation (NRF) , PI (Project Level): WANG Qihong , Co-PI (Project Level): Qian TANG, 2016, S\$399,960

Advanced defense techniques for mobile systems and future networks, Huawei Technologies co. Ltd , PI (Project Level): Robert H DENG , Co-PI (Project Level): Debin GAO, DING Xuhua, LI Yingjiu, 2015

COMMANDO-HUMANS: COMputational Modelling and Automatic Non-intrusive Detection of HUMAN behaviour based iNSecurity, National Cybersecurity R&D (NCR) Programme, National Research Foundation (NRF) , PI (Project Level): Robert H DENG , Co-PI (Project Level): LI Yingjiu, 2015, S\$416,021.2

Secure Mobile Centre - Technologies and Solutions for Securing Mobile Computing, National Cybersecurity R&D (NCR) Programme, National Research Foundation (NRF) , PI (Programme Level): Robert H DENG , PI (Project Level): DING Xuhua, Debin GAO, JIANG Lingxiao, LI Yingjiu, David LO, PANG Hwee Hwa, 2014, S\$6,415,200

Multidimensional Context Awareness Security Techniques, Huawei Technologies co. Ltd , PI (Project Level): Robert H DENG, 2013, S\$156,000

Techniques and Systems for Securing Scalable Multimedia Content Dissemination, Public Sector Research

Funding (PSF), Agency for Science, Technology and Research (A*STAR) , PI (Project Level): Robert H DENG , Co-PI (Project Level): DING Xuhua, 2010, S\$605,376

Security Architecture and Techniques for Communications, Control and Management of Energy Distribution Systems, Thematic Strategic Research Program (TSRP), Agency for Science, Technology and Research (A*STAR) , Co-PI (Project Level): Robert H DENG, 2008, S\$564,510

A Security Framework for EPCglobal Network (2008), Public Sector Research Funding (PSF), Agency for Science, Technology and Research (A*STAR) , PI (Project Level): LI Yingjiu , Co-PI (Project Level): Robert H DENG, 2008, S\$575,640

TeleOph: A Secure Tele-ophthalmology System, The Enterprise Challenge (TEC) Program, The Government of Singapore, Prime Minister's Office , Co-PI (Project Level): Robert H DENG, S\$50,200

The Use of Mobile Devices in RFID-Based Supply Chain Management, Nokia (China) Investment Corporation Limited , PI (Project Level): Robert H DENG, S\$21,137

Efficient User Credential Revocation in Cloud Computing, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Robert H DENG, 2014, S\$41,940.67

Attributed-Based Encryption with Adaptable Security Policies, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Robert H DENG, 2013, S\$41,940.67

Privacy-preserving access control of encrypted data in the cloud, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Robert H DENG, 2012, S\$39,943.44

Flexible access control of encrypted data in the cloud, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Robert H DENG, 2011, S\$37,842

Formal RFID privacy models and protocols, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Robert H DENG, 2010, S\$35,677.33

Privacy Protection in RFID-based Business Information Systems, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Robert H DENG, 2009, S\$34,462.56

Enforcing data security & privacy in large scale wireless sensor networks using trusted computing technology, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Robert H DENG, 2008, S\$33,953.22

End-to-end content authentication in multimedia delivery systems, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Robert H DENG, 2007, S\$32,413.56

Inference control and private information retrieval in statistical databases, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Robert H DENG, 2006, S\$30,870

Trusted Computing Technology and Its Applications, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Robert H DENG, 2005, S\$30,135

Security and trust management in mobile and ad hoc networking, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Robert H DENG, 2004, S\$32,400

Other Institutions

IIE(SMART) - sBox - Secure Enterprise Cloud Data Storage System, SMART, Singapore-MIT Alliance for Research and Technology PI (Project Level): Robert H DENG, 2020, SGD250,000

IIE(MDGF) - sBox end-to-end data privacy protection and sharing software system. , MDGF, MOE Decentralised Gap Funding PI (Project Level): Robert H DENG, 2019, SGD250,000

Intellectual Property

Application/Filed: Robert H DENG, "Method and system for correcting eye gaze direction in an image", Singapore Patent 10201503664P

Application/Filed: Robert H DENG, "R. H. Deng and Y. Li, "Data security system and method for operation thereof" , Singapore patent 10201508390P, PCT Application PCT/SG2016/050132", 24288

Application/Filed: Robert H DENG, "System and method for determining a security classification of an unknown application", Singapore patent 10201504543V

Application/Filed: Robert H DENG, "Method and system for accident avoidance", Singapore Patent 10201406053Q

Application/Filed: Robert H DENG, "Data security system and method for operation thereof", Singapore patent 10201508390P

Granted: Robert H DENG, "A method of exchanging digital data", SG Patent SG75691

Granted: Robert H DENG, "Method of generating an authentication", Singapore Patent 110390, US Patent 7,233,782B2

Granted: Robert H DENG, "A method of sale auditing in private transaction of e-goods", PCT WO 03/044619 A2

Granted: Robert H DENG, "Method and apparatus for digital content copy protection", US 6711553B1

Granted: Robert H DENG, "A method of data storage and apparatus therefor", UK Patent GB 2349964, SG Patent SG 73941

Granted: Robert H DENG, "Remote authentication based on exchanging signals representing biometrics information", US Patent 6910129B1

Granted: Robert H DENG, "Microprocessor card payment system", SG Patent SG64957

Granted: Robert H DENG, "Method for cryptographically processing a message", PCT WO2005/034423A1

Granted: Robert H DENG, "A public key cryptography and a framework therefore", PCT WO2004/032416A1

Granted: Robert H DENG, "Legitimacy protection of electronic document and a printed copy thereof", GB 2365184

Granted: Robert H DENG, "Method for incremental authentication of documents", US 2005/0091261A1

Granted: Robert H DENG, "Method and apparatus for encrypting and decrypting data", SG Patent SG 82916

Granted: Robert H DENG, "Method and apparatus for embedding digital information in digital multimedia data", Singapore Patent 81505, UK Patent GB 2366112, PCT WO00/39954

Granted: Robert H DENG, "Method and apparatus for protecting the legitimacy of an article", UK Patent GB 2364513B

Granted: Robert H DENG, "A method of exchanging digital data", European Patent 1082836

Granted: Robert H DENG, "Method and apparatus for constructing efficient elliptic curve cryptosystems", Singapore 99167 [WO02/0827170]

Granted: Robert H DENG, "Method and apparatus for providing XML document encryption", Singapore Patent 97038

Granted: Robert H DENG, "Method for cryptographically processing a message, method for generating a cryptographically processed message, method for performing a cryptographic operation on a message, computer system, client computer, server computer and computer program elements", Singapore Patent No. 120791

Granted: Robert H DENG, "A method and apparatus for providing XML document encryption", PCT/SG4 00/00196

Granted: Robert H DENG, "Correcting up to two disc drive read errors and detecting the occurrence of more than two read errors ", US Patent 5627843

Granted: Robert H DENG, "Method for incremental authentication of documents", US Patent 7,315,866

Granted: Robert H DENG, "Computationally efficient method for trusted and dynamic digital objects dissemination", US Patent 6058383

Granted: Robert H DENG, "Method and apparatus for providing XML document encryption", US 2004/0078577A1

Granted: Robert H DENG, "Method of generating an authentication", US 2005/0246769A

Granted: Robert H DENG, "Method and apparatus for encrypting and decrypting data", US 7,110,539B1

Work in Progress

WANG Qihong, Steven MILLER, Robert H DENG, Driving Cybersecurity Policy Insights from Information on the Internet, 2020

TEACHING

Courses Taught

Singapore Management University

Postgraduate Professional Programmes :

Capstone Project - Cybersecurity

Postgraduate Research Programmes :

Empirical Research Project 1

Empirical Research Project 4

Information Security

THESES AND DISSERTATIONS

Theses and Dissertations Supervised

Singapore Management University

Supervisor, "Advanced Malware Detection for Android Platform", Dissertation by XU, KE, PhD in Information Systems, Singapore Management University, 2018

Supervisor, "Automatic Vulnerability Detection and Repair", Dissertation by MA SIQI, PhD in Information Systems, Singapore Management University, 2018

Supervisor, "Towards Secure Online Distribution of Multimedia Codestream", Dissertation by LO SWEE WON, PhD in Information Systems, Singapore Management University, 2016

Supervisor, "Virtualization-Based System Hardening Against Untrusted Kernels", Dissertation by CHENG YUEQIANG, PhD in Information Systems, Singapore Management University, 2014

Supervisor, "Towards Secure and Usable Leakage-Resilient Password Entry", Dissertation by YAN QIANG, PhD in Information Systems, Singapore Management University, 2013

Theses and Dissertations Assessed

Singapore Management University

Committee Member, "Secure Enforcement Of Isolation Policy On Multicore Platforms With Virtualization Techniques", Dissertation by ZHAO SIQI, PhD in Information Systems, Singapore Management University, 2018

Committee Member, "Techniques for Identifying Mobile Platform Vulnerabilities and Detecting Policy-violating Applications", Dissertation by SU MON KYWE, PhD in Information Systems, Singapore Management University, 2017

Committee Member, "Online Social Network Based Information Disclosure Analysis", Dissertation by LI YAN, PhD in Information Systems, Singapore Management University, 2014

Committee Member, "Security and Privacy in RFID-Enabled Supply Chains", Dissertation by CAI SHAOYING, PhD in Information Systems, Singapore Management University, 2014

Committee Member, "A Study of the Imitation, Collection and Usability Issues of Keystroke Biometrics", Dissertation by TEY CHEE MENG, PhD in Information Systems, Singapore Management University, 2013

Committee Member, "Exploiting Human Factors in User Authentication", Dissertation by GUPTA PAYAS, PhD in Information Systems, Singapore Management University, 2013

OTHER ACADEMIC AND PROFESSIONAL ACTIVITIES

Presentation and Talks

Presentations

Keynote. Towards efficient and practical privacy-enhancing solutions, (16 Oct 2025). *The 3rd International Conference on Data Security and Privacy Protection (DSPP 2025)*, Xi'an. China

Keynote. Efficient security and privacy protocols for IoT networks and applications, (26 Aug 2025). *The 11th ACM Cyber-Physical System Security Workshop (CPSS 2025)*, Hanoi. Vietnam

Keynote, "Post-quantum cryptography – research and migration", (25 Oct 2024). *The 2nd International Conference on Data Security and Privacy Protection (DSPP)*, Xi'an. China

Keynote, "Toward practical client-side encryption in cloud computing", (02 Jul 2024). *The 19th ACM ASIA Conference on Computer and Communications Security (ASIACCS 2024)*, Singapore

Keynote, "TEE-assisted crypto systems – towards designing practical data security solutions", (18 Nov 2023). *25th International Conference on Information and Communications Security (ICICS 2023)*,

Keynote, "Hardware-assisted data security & privacy solutions", (19 Oct 2023). *19th EAI International Conference on Security and Privacy in Communications Networks (SecureComm 2023)*,

Keynote, "Data security & privacy protection in IoT MGC systems", (10 Jul 2023). *The 9th ACM Cyber-Physical System Security Workshop (CPSS 2023)*,

Keynote, "Efficiently deployable and efficiently searchable encryption – applications, attacks, and countermeasures", (18 Dec 2022). " , *Information Security Conference (ISC 2022)*,

Keynote, "Protecting cloud data security and privacy through encryption", (23 Nov 2022). *17th International Conference on Information Security Practice and Experience (ISPEC 2022)*,

10Keynote, "Secure cloud data storage for enterprise users – from cryptographic research to system design" , (15 May 2021). *EAI International Conference on Applied Cryptography in Computer and Communications (AC3 2021)*,

Keynote. "Privacy-preserving deep packet inspection on TLS traffic", (25 Nov 2020). *the 14th International Conference on Network and System Security*, Melbourne, Australia.

Keynote, "Towards leakage resilient user authentication", (16 Dec 2019). *15th International Conference on Information Security and Cryptology*, Beijing, China

Keynote, "When seeing is not believing – defeating spoofing attacks in face authentication in mobile platforms" , (06 Dec 2019). *15th International Conference on Information Security and Cryptology*, Nanjing, China

Keynote, "Long road towards secure and usable password authentication" , (18 Nov 2019). *IEEE Conference on Dependable and Secure Computing*, Hangzhou, China

Keynote. Protecting data security and privacy in untrusted servers, (14 Dec 2018). *the 14th International Conference on Information Security and Cryptology (Inscrypt 2018)*, Fuzhou.

Keynote. New cryptographic techniques for data security and privacy protection in the cloud, (10 Oct 2018). *Huawei Connect 2018*, Shanghai, China.

Keynote. A user centric and layered approach to mobile security, (25 Sep 2018). *the 14th International Conference on Information Security Practice and Experience (ISPEC 2018)*, Tokyo, Japan.

Invited talk. End-to-end secure mobile computing in the Internet of Things, (03 Sep 2018). *the 23rd European Symposium on Research in Computer Security (ESORICS 2018)*, Barcelona, Spain.

Keynote. A user centric approach to secure mobile systems and applications, (08 Aug 2018). *the 14th EAI International Conference on Security and Privacy in Communication Networks (SecureComm 2018)*, Singapore.

Keynote. Strengthening the weakest links in IoT security, (11 Jul 2018). *the 23rd Australasian Conference on Information Security and Privacy (ACISP 2018)*,

Keynote. Present and future challenges in IoT security, (19 May 2018). *ACM SIGSAC China Symposium, ACM Turing Celebration Conference (ACM TURC 2018)*,

Invited Talk. Present and future challenges in IoT Security, (15 May 2018). *Huawei Strategy and Technology Workshop*,

Keynote. Privacy-preserving access control and computations of encrypted data in the cloud, (13 Dec 2017). *The 10th International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage (SpaCCS 2017)*, Guangzhou, China

Invited talk. A layered approach to secure mobile computing, (27 Jul 2017). *Cyber Week 2017 – Academic Track*, Tel Aviv, Israel

Keynote. Performance and cryptographic key management for mobile users in secure cloud storage systems, (09 Dec 2016). *The 3rd International Symposium on Mobile Security*, Seoul, South Korea

Keynote. Achieving end-to-end security in mobile computing, (06 Jun 2016). *The 21st ACM Symposium on Access Control Models and Technologies*, Shanghai, China

Keynote. Attribute-based encryption for access control of encrypted data in the cloud, (04 Jan 2016). *The 4th International Workshop on Security and Forensics in Cyber Space*, Singapore. Singapore

Invited talk. Achieving data security & privacy in untrusted servers, (17 Dec 2015). *Fudan Science and Innovation Forum*, Shanghai, China

Keynote. Flexible and scalable search and sharing of encrypted data in the cloud, (07 Dec 2015). *The 7th International Conference on Trusted Systems*, Beijing, China

Keynote. Efficient and privacy-preserved sharing of encrypted data in the cloud, (22 Aug 2015). *The 14th IEEE International Conference on Trust, Security and Privacy in Computing and Communications*, Helsinki, Finland

Distinguished Lecture. Protecting security and privacy of outsourced data in the cloud, (04 Dec 2014). *The Croucher Foundation Advanced Study Institute – Information Security and Privacy in Social Networks and Cloud Computing*, Hong Kong. China

Invited talk. Towards secure and usable user authentication in e-banking and e-payment, (13 May 2014). *2014 Huawei Strategy and Technology Workshop*, Shengzhen. China

Keynote speech. RFID security & privacy –recent developments & challenges, (27 Nov 2013). *The 2013 Workshop on RFID and IoT Security*, Guangzhou. China

Keynote speech. Secure access to outsourced data, (08 May 2013). *The 2013 International Workshop on Security in Cloud Computing*, Hangzhou. China

Keynote speech. Access control of encrypted data in untrusted servers, (12 Dec 2012). *The 4th International Symposium on Cyberspace Safety and Security*, Melbourne. Australia

Keynote Speech. Detecting node clones in wireless sensor networks, (07 Sep 2010). *The 6th International ICST Conference on Security and Privacy in Communication Networks*, Singapore.

Keynote Speech. RFID privacy models and a minimal condition, (12 Dec 2009). *The 5th China International Conference on Information Security and Cryptology*, Beijing.

Keynote Speech. Scalable end-to-end multimedia content authentication techniques, (18 Nov 2009). *The 2009 International Conference on Multimedia Information Networking and Security*, Wuhan. China

Keynote Speech. The future of password, (04 Jun 2009). *The 19th Cryptology and Information Security Conference*, Taipei.

Keynote Speech. Scalable authentication techniques compatible with modern multimedia coding standards, (21 Apr 2008). *The Fourth Information Security Practice and Experience Conference*, Sydney.

Keynote Speech. Towards efficient and novel security solutions - a marriage of crypto and trusted computing platform, (07 May 2007). *The 3rd Information Security Practice and Experience Conference*,

Keynote Speech. Inference control and private information retrieval – two sides of one tapestry, (06 Jun 2006). *The 4th International Conference on Applied Cryptography and Network Security*, Singapore.

Invited Talk. New developments in security systems and cryptographic applications, (11 Dec 2004). *The Croucher Foundation Advanced Study Institute – Cryptography and Wireless Security*, Hong Kong.

Invited Seminars, Talks and Lectures

Bitcoin, blockchain and smart contract, 06 Mar 2018. IT Development Talk to Supreme Court Judges

Privacy enhanced super-distribution of multimedia content, 04 Sep 2004. CyLab Seminar, Pittsburgh, United States of America

UNIVERSITY SERVICE

Singapore Management University

Committee Member, Selection Committee for the SMU Presidential Early Career Professorship (PEP) Scheme, Nov 2025 - Present

Committee Member, University Research Evaluation Committee , May 2022 - Apr 2025

Committee Member, SMU Named Award Committee , Apr 2018 - Present

Committee Member, Provost Academic Committee, Jul 2006 - Jun 2013

Committee Member, Institutional Review Board, Apr 2006 - Mar 2009

EXTERNAL SERVICE – PROFESSIONAL

Member, Program Committee, the Fourth International Conference on Applied Cryptography and Network Security (ANCS 2006), 6-9 June, Singapore, <http://acns2006.i2r.a-star.edu.sg>

Member, Program Committee, The Seventh International Conference on Electronic Commerce, ICEC 2005, 15-17 Aug 2005, Xi'an, China, <http://www.icec2005.org>

Chairperson, Program Committee, The First Conference on Availability, Reliability and Security (AReS 2006), 20th-22nd April 2006, Vienna, Austria.

Member, International Advisory Committee, IEEE International Carnahan Conference on Security Technology, 1995 (Sanderstead, Surrey, England), 1997 (Canberra, Australia), 1998 (Alexandria, VA, USA), 1999 (Madrid, Spain).

Member, International Program Committee, the IASTED Conference on Communication, Networks and Security, 2003 (New York, USA).

Member, Technical Program Committee, Workshop on Internet and Network Economics, (WINE 2005), (15-17 December, 2005)

Member, Technical Program Committee, The 1st IEEE Workshop on Information Assurance in Wireless Sensor Networks 2005 (WSNIA 2005), (April 7-9, Arizona, USA)

Member, Program Committee, The Seventh International Conference on Information and Communications Security, (ICICS 2005), 10-13 December 2005, Beijing, China, <http://www.icics2005.org>

Member, Program Committee, ChinaCOM 2006, 16-19 October 2006, Beijing, China, <http://www.chinacom.org/progcom.html>

Member, International Program Committee, The IASTED International Conference on Communication, Network and Information Security (CNIS 2005), (November 14-16 2005, Phoenix, USA)

Member, Program Committee, ChinaCOM 2006, October 2006, Beijing, China.

Member, Technical Program Committee, The Second International Conference on Security and Privacy for Emerging Areas in Communication Networks (SECURECOMM 2006), September 2006, Baltimore, USA.

Chairperson, The 8th Information Security Conference 2005 (ISC 2005), 20-23 September 2005, (Singapore)

Chairperson, Program Committee, International Public Key Cryptosystems Workshop, 2004 (Singapore)

Member, Technical Program Committee, Technical Program Committee, The First International Conference on Security and Privacy for Emerging Areas in Communication Networks, SECURECOMM 2005 (5-9 September 2005, Athens, Greece)

Member, Program Committee, IEEE Conference on Availability, Reliability and Security (AReS 2006), 20-22 April 2006, Vienna, Austria, <http://www.ares-conf.org>

Member, Program Committee, the 11th Australasian Conference on Information Security and Privacy (ACISP 2006), 3-5 July 2006, Melbourne, Australia, <http://acisp2006.it.deakin.edu.au>

Member, Program Committee, The Third Australasian Information Security Workshop (AISW 2005): Digital Rights Management, 31 Jan - 3 Feb 2005 (Australia)

Member, Program Committee, the 11th European Symposium on Research in Computer Security (ESORICS 2006), September 2006, Hamburg, Germany.

Member, Technical Program Committee, The IEEE Communications Society/CreateNet International Conference on Security and Privacy for Emerging Areas in Communication Networks, (SECURECOMM 2006), 11-15 September 2006, Baltimore, USA, <http://www.securecomm.org>

Member, Program Committee, ACM Symposium on Information, Computer and Communications Security (AsiaCCS'2006), (Taipei, Taiwan)

Member, Program Committee, ACM Conference on Computer and Communications Security, 1999 (Singapore).

Member, Program Committee, the 2nd International Conference on Mobile Ad-hoc and Sensor Networks (MSN 2006), December 2006, Hong Kong, China.

Member, Program Committee, ACM Conference on Computer and Communications Security, (ACM CCS 2007), October 2007, Washington, DC, USA.

Member, Technical Program Committee, IEEE Wireless Networks, Communications and Mobile Computing, IEEE WirelessCom 2005 (June 13-14, 2005, Hawaii, USA)

Member, Program Committee, The Second Information Security Practice and Experience Conference 2006 (ISPEC 2006), (Hangzhou, China)

Member, International Program Committee, IASTED International Conference on Communications and Computer Networks, CCN'2005 (Oct. 24-26, 2005, Marina Del Rey, CA, USA)

Member, Technical Program Committee, IEEE International Conference on Communications (ICC 2006) - Wireless Ad Hoc and Sensor Networks, 11th - 15th June 2006, Istanbul, Turkey, <http://www.icc2006.org/index.html>

Member, Technical Program Committee, IEEE Globecom 2005, Symposium on Computer and Networks Security, 2005 (Nov. 28- Dec. 2, 2005, St. Louis, USA).

Member, Program Committee, Program Committee, ACM Workshop on Digital Rights Management (ACM DRM 2006), October 2006, Washington, DC, USA.

Member, Program Committee, IEEE Symposium on Security and Privacy, 1999 (Oakland, CA, USA), 2000 (Oakland, CA, USA).

Member, Program Committee, International Conference on Applied Cryptography and Network Security (ACNS 2006), June 2006, Singapore.

Member, Program Committee, ACM Symposium on Information, Computer and Communications Security (AsiaCCS 2006), 21-24 March 2006, Taipei, Taiwan, <http://www.iis.sinica.edu.tw/asiaccs06/indexhome.html>

Technical Program Committee, Workshop on Mobile, Wireless and Sensor Networks, 2004 (Singapore).

Member, Technical Program Committee, IFIP International Conference on Embedded and Ubiquitous Computing (EUC 2007), December 2007, Taipei, Taiwan.

Member, Program Committee, the 11th European Symposium on Research in Computer Security (ESORICS 2006), 18-20 September 2006, Hamburg, Germany, <http://www.esorics06.tu-harburg.de>

Chairperson, Program Committee, the International Conference on Information and Communications Security, 2002 (Singapore).

Member, Program Committee, International Conference on Information and Communications Security, 1997 (Beijing, China), 1999 (Sydney, Australia), 2003 (Huhehote, China), 2004 (Malaga, Spain), 2005 (Beijing, China).

Member, Program Committee, The 11th Australasian Conference on Information Security and Privacy (ACISP 2006), July 2006, Melbourne, Australia.

Member, Technical Program Committee, IEEE Wireless Communications and Networking Conference 2007 (WCNC 2007), March 2007, Hong Kong, China.

Member, Technical Program Committee, IEEE Globecom 2003, Symposium on Communications Security, 2003 (San Francisco, USA).

Member, Program Committee, the First International Conference on Applied Cryptography and Network Security, 2003 (Kuming, China), 2006 (Singapore)

Member, Program Committee, The Second Conference on Availability, Reliability and Security (AREs 2007), 10th-13th April 2007, Vienna, Austria.

Member, Program Committee, the 12th European Symposium on Research in Computer Security (ESORICS 2007), September 2007, Dresden, Germany.

Member, Program Committee, the Second International Workshop for Asian Public Key Infrastructures, 2002 (Taipei, Taiwan).

Member, Advisory Committee, the 1st International Conference on Information Security and Computer Forensics (ISCF 2006), December 2006, Chennai, India.

Member, Technical Program Committee, Emerging Networks, Technologies and Standards Symposium, (IEEE WirelessCom 2005), Hawaii, USA, <http://sa1.sice.umkc.edu/wc05/>

Chairperson, The 1st Information Security Practice and Experience Conference, 2005 (Singapore)

Member, Program Committee, Asiacrypt 2003 (Taipei, Taiwan).

Member, Program Committee, the Annual International Conference on Information Security and Cryptology, 2003 (Seoul, Korea), 2004 (Seoul, Korea).

Member, Program Committee, Information Security Workshop, 1999 (Kuala Lumpur, Malaysia).

Committee Chair, Program Committee, International Conference on Information Security and Cryptology, 2025

Committee Chair, Program Committee, 2021 IEEE Conference on Dependable and Secure Computing, 2021

Committee Chair, Program Committee, 2020 Information Security Conference, 2020

Guest Editor, Special Issue on FinTech Security and Privacy, Future Generation Computer Systems, 2020 - Present

Guest Editor, Special Issue on security and privacy of blockchain technologies, International Information Security, 2020 - Present

Member Board of Advisors, Information Security and Cryptography book series, Springer Verlag's, 2020 - Present

Editor Associate Editor, ACM Transactions on Privacy and Security (TOPS), 2020 - Present

Committee Chair, Program Committee, International Conference on Cryptology and Network Security (CANS), 2019

Editor Book, 3rd Edition of Encyclopedia of Cryptography, Security and Privacy, Springer, 2019 - 2020

Committee Chair, Program Committee, International Conference on Applied Cryptography and Network Security (ACNS), 2019

Guest Editor, Special Issue on Trust Management for Multimedia Big Data, ACM Transactions on Multimedia Computing, Communications and Applications, Vol. 12, No. 4s, November 2016, 2017

Committee Member, Steering Committee, ACM Symposium on Access Control Models and Technologies, 2017 - 2020

Guest Editor, Special Issue on Cryptography and Data Security in Cloud Computing, Information Sciences, Elsevier, Vol. 387, May 2017, 2017

Committee Member, Steering Committee, IEEE Conference on Dependable and Secure Computing, 2017 - Present

Editorial Board, SpringerBriefs in Cyber Security Systems and Networks, 2017 - Present

Chairperson, Program Committee, Information Security Practice and Experience Conference (ISPEC), 2016

Chairperson, 12th EAI International Conference on Security and Privacy in Communication Networks (SecureComm), 2016

Editor Associate Editor, IEEE Security and Privacy Magazine, 2016 - 2020

Chairperson, Information Security Practice and Experience Conference (ISPEC), 2015

Chairperson, Information Security Practice and Experience Conference (ISPEC), 2014

Chairperson, Program Committee, International Symposium on Cyberspace Safety and Security, 2014

Member, Program committee, The ACM Cloud Computing Security Workshop, 2014

Guest Editor, Special Issue on Security and Privacy of Electronic Health Information Systems, International Journal of Information Security, Vol. 14, No. 6, November 2015, 2014 - 2015

Member, Program Committee, International Symposium on Cyberspace Safety and Security, 2013

Chairperson, Program Committee, 9th Information Security Practice and Experience Conference., 2013

Member, Program Committee, 2013 iConference, 2013

Editorial Board Member, Special Issue on Security and Privacy in Complex Systems, IEEE Systems Journal, 2013 - 2014

Chairperson, Steering Committee, ACM Symposium on Information, Computer and Communications Security (AsiaCCS), 2013 - 2017

Guest Editor, Special Issue on Cryptography in Cloud Computing., Future Generation Computer Systems, Vol. 30, January 2014., 2013 - 2014

Member, International Advisory Committee, International Conference on Network and System Security, 2013 - Present

Editorial Board Member, International Journal of Information Security, Springer, 2013 - Present

Member, International Advisory Committee, IEEE Conference on Communications and Network Security, 2013 - Present

Guest Editor, Special Issues on Trust in Cyber, Physical and Social Computing, Computer & Security, Vol. 47, November 2014, 2013 - 2014

Member, Program Committee, The 6th International Conference on Network and System Security, 2012

Member, Program Committee, The 19th ACM Conference on Computer and Communications Security., 2012

Chairperson, Program Committee, Information Security Practice and Experience Conference, 2012

Member, Program Committee, International Conference on Applied Cryptography and Network Security, 2012

Member, Program Committee, The Sixth International Conference on Software Security and Reliability., 2012

Member, Program Committee, The Fifth ACM Conference on Security and Privacy in Wireless and Mobile Networks., 2012

Chairperson, Technical Program Committee, International Conference on Multimedia Information Networking and Security., 2012

Member, Program Committee, ACM Symposium on Information, Computer and Communications Security, 2012

Editor Associate Editor, Associate Editor, IEEE Transactions on Dependable and Secure Computing, 2012 - 2016

Committee Member, Steering Committee, International Conference on Network and System Security, 2012 - Present

Member, Program Committee, ACM Multimedia Conference, 2011

Chairperson, Program Committee, International Conference on Trusted Systems, 2011

Member, Program Committee, IEEE International Conference on Trust, Security and Privacy in Computing and Communications, 2011

Member, Program Committee, ACM Conference on Wireless Network Security, 2011

Chairperson, Program Committee, Information Security Practice and Experience Conference, 2011

Member, Program Committee, ACM Symposium on Information, Computer and Communications Security, 2011

Other, Guest Editor, Special Issue on Ubiquitous Electronic Commerce Systems, Journal of Electronic Commerce Research, Vol. 11, No. 1, 2011, Springer,, 2011

Chairperson, Program Committee, International Conference on Trusted Systems, 2010

Chairperson, Program Committee, Information Security Practice and Experience Conference, 2010

Member, Program Committee, International Conference on Information Security and Cryptology, 2010

Member, Program Committee, International Conference on Trusted Cloud Infrastructure Technologies Annual, 2010

Member Board of Advisors, International Advisory Board, International Workshop on Multimedia, Information Privacy and Intelligent Computing Systems, 2010

Member, Program Committee, International Symposium on Data, Privacy and E-Commerce, 2010

Member, Program Committee, IEEE International Conference on Secure Software Integration and Reliability Improvement, 2010

Member, Program Committee, International Conference on Applied Cryptography and Network Security, 2010

Member, Program Committee, International Conference on Applied Cryptography and Network Security, 2010

Member, Program Committee, ACM Symposium on Information, Computer and Communications Security, 2010

Chairperson, Technical Committee, International Conference on Multimedia Information Networking and Security, 2010

Member, Program Committee, ACM Workshop on Scalable Trusted Computing, 2010

Chairperson, Program Committee, The International Conference on Trusted Systems, 2009

Member, Program Committee, International Conference on Information Security and Cryptology, 2009

Member, Technical Program Committee, International Conference on Multimedia Information Networking and Security, 2009

Member, Program Committee, International Conference on Network and System Security, 2009

Member, International Advisory Board, International Workshop on Multimedia, Information Privacy and Intelligent Computing Systems, 2009

Member, Program Committee, ACM Symposium on Information, Computer and Communications Security, 2009

Member, Program Committee, International Conference on the Technical and Socio-economic Aspects of Trusted Computing, 2009

Member, Program Committee, IEEE International Symposium on Trust, Security and Privacy for Pervasive Applications, 2009

Chairperson, Program Committee, Information Security Practice and Experience Conference, 2009
Member, Program Committee, Australasian Conference on Information Security and Privacy, 2009
Member, Program Committee, International Conference on Cloud Computing, 2009
Other, Associate Editor, IEEE Transactions on Information Forensics and Security (since March 2009), 2009 - 2011
Member, Editorial Board, International Journal of Multimedia Intelligence and Security, Inderscience, 2009 - 2017
Member, Technical Program Committee, IEEE/IFIP International Conference on Embedded and Ubiquitous Computing, 2008
Member, Program Committee, International Conference on Computational Intelligence and Security, 2008
Member, Program Committee, International Conference on Information and Communications Security, 2008
Member, Program Committee, International Conference on Network and System Security, 2008
Member, Program Committee, Information Security Conference, 2008
Member, Program Committee, International Conference on Communications and Networking in China, 2008
Member, Program Committee, Annual Computer Security Applications Conference, 2008
Member, Program Committee, Asia Pacific Trusted Infrastructure Technologies Conference, 2008
Member, Technical Program Committee, IEEE International Conference on Communications, 2008
Member, Program Committee, ACM Symposium on Information, Computer and Communications Security, 2008
Member, Program Committee, International Conference on Cryptology and Network Security, 2008
Member, Program Committee, International Conference on Provable Security, 2008
Member, Program Committee, Annual Conference on Privacy, Security and Trust, 2008
Committee Chair, Program Committee, ACM Conference on Computer and Communications Security, 2007
Editor Associate Editor, Security and Communication Network Journal, John Wiley and Sons, 2007 - 2013
Other, Editorial Board, Journal of Computer Science and Technology (JCST), Institute of Computing Technology, Chinese Academy of Sciences, co-published by Springer (2006-), 2006 - Present
Other, Editorial Board, Advances in Cryptology and Information Security (ACSI) series, IOS Press (since August 2005), 2005 - Present

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Committee Chair, Trust Tech Technical Committee (T2TC), Digital Trust Centre (DTC), IMDA, 2022 - 2027
Member, National Cybersecurity R&D Technical Review Panel , CSA, 2022 - 2027
Committee Member, National Cybersecurity R&D Technical Review Panel (TRP), CSA, 2022 - 2026