

## KE, Ping Fan

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### **EMPLOYMENT**

Jul 2019 – present                      Assistant Professor, School of Computing and Information Systems,  
Singapore Management University  
Sept 2018 – May 2019                Visiting Scholar, Department of ISOM, Hong Kong University of Science  
and Technology

### **EDUCATION**

- Ph. D. in Information Systems, Hong Kong University of Science and Technology, 2018
- M. Phil. in Information Systems, Hong Kong University of Science and Technology, 2014
- B.B.A. in Information Systems and Operations Management (First Class Honors), Hong Kong University of Science and Technology, 2011

### **RESEARCH INTERESTS**

Cybersecurity, Blockchain, Machine Learning, Economics of Information Systems

### **JOURNAL PUBLICATIONS**

1. Ng, K. C., Ke, P. F., So, M. K., & Tam, K. Y. (2023). [Augmenting Fake Content Detection in Online Platforms: A Domain Adaptive Transfer Learning via Adversarial Training Approach](#). *Production and Operations Management*.
2. Lai, A. C. T., Ke, P. F., Chan, K., Yiu, S. M., Kim, D., Wong, W. K., Wang, S., Muppala, J., & Ho, A. (2022). [RansomSOC: A More Effective Security Operations Center to Detect and Respond to Ransomware Attacks](#). *Journal of Internet Services and Information Security (JISIS)*, 13.
3. Hui, K. L., Ke, P. F., Yao, Y., & Yue, W. T. (2019). [Bilateral Liability-Based Contracts in Information Security Outsourcing](#). *Information Systems Research*, 30(2), 411-429.

### **CONFERENCE PRESENTATIONS (SELECTED)**

1. Ke, P. F., Lau, Y. M., & Hanley, D. V. (2023, July). [Is Web3 Better Than Web2 for Investors? Evidence from Domain Name Auctions](#). In Pacific Asia Conference on Information Systems (PACIS), Nanchang, China.
2. Ke, P.F., & Ng, K.C. (2022, December). [Bank Error in Whose Favor? A Case Study of Decentralized Finance Misgovernance](#). In *International Conference on Information System (ICIS) 2022*, Copenhagen, Denmark. **[Best Short Paper Nomination]**
3. Ke, P. F., Chen, J., & Guo, Z. (2021, December). [Strategic Behavior and Market Inefficiency in Blockchain-Based Auctions](#). In *32nd Workshop on Information Systems and Economics (WISE)*, Austin, Texas. **[Best Paper Nomination]**
4. Ke, P.F., Hui, K. L., & Yue, W. T. (2020, December). The Effect of Content Filtering on the Internet: An Empirical Investigation. In *Workshop on Information Technologies and Systems (WITS)*, Virtual. **[Best Paper Nomination]**
5. Ke, P.F. (2019, December). [The information disclosure trilemma: Privacy, attribution and dependency](#). In *Workshop on Information Security and Privacy (WISP)*, Munich, Germany.
6. Ke, P.F. (2018, December). Influence of Transaction Cost on Smart Contract: An Economic Analysis on Token-Curated Registry. In *Pre-ICIS SIGBPS Workshop on Blockchain and Smart Contract (BPS'18)*, San Francisco, CA.

7. **Ke, P. F.**, Hui, K. L., & Yue, W. T. (2013). [Information security as a credence good](#). In: Adams, A.A., Brenner, M., Smith, M. (eds) *Financial Cryptography and Data Security, Lecture Notes in Computer Science* (Vol. 7862, pp. 83-93). Springer Berlin Heidelberg.

### **SECURITY TALKS (SELECTED)**

1. [Ransomware Incident Investigation](#). In *SINCON Reloaded*, Singapore, January 6, 2023.
2. [Backdoor Investigation and Incident Response: From Zero to Profit](#). In *Black Hat Asia 2022*, Singapore, May 12, 2022
3. Chip-off Forensics. In *VX Village, DEFCON 26*, Las Vegas, NV, Aug 11, 2018
4. XML and JS Hacking. In *OWASP Hong Kong Chapter*, Hong Kong, Mar 11, 2017
5. Search for Vulnerable IoT Devices. In *3<sup>rd</sup> International Conference on CyberCrime and Computer Forensics (ICCCF)*, Macau, Jun 23, 2015

### **CASE PUBLICATIONS**

1. Lau, Y. M., **Ke, P. F.**, & Lim, T. (2023). [Riding on the cryptocurrency and NFT wave: Twitter needs to "Show Me the Money"](#). Center for Management Practice, Singapore Management University.
2. Hui, K. L., Huang, M., **Ke, P. F.**, & Lai, A. (2016). [PopVote: Assessing the Risk of DDoS](#). Thompson Center for Business Case Studies, HKUST Business School.

### **SECURITY ADVISORIES (SELECTED)**

1. CVE-2021-41146: Remote Code Execution Vulnerability in qutebrowser
2. CVE-2019-11751: Remote Code Execution Vulnerability in Firefox
3. CVE-2019-14422: Remote Code Execution Vulnerability in TortoiseSVN
4. CVE-2019-13475: Remote Code Execution Vulnerability in MobaXterm
5. CVE-2018-8311: Remote Code Execution Vulnerability in Skype For Business and Lync

### **HONORS AND AWARDS**

1. Best Associate Editor, PACIS 2023, Nanchang, China, July 8-12, 2023
2. ICIS 2016 Doctoral Consortium participant, Dublin, Ireland, Dec 7-9, 2016
3. PACIS 2015 Doctoral Consortium participant, Singapore, Jul 5-6, 2015
4. Hong Kong PhD Fellowship, Research Grant Council, Hong Kong, 2014 – 2017
5. Beta Gamma Sigma, 2010

### **PROFESSIONAL SERVICES**

- Conference Committee
  1. Session Chair, International Conference on Information Systems (ICIS), 2022
  2. Associate Editor, International Conference on Information Systems (ICIS), 2020, 2022, 2023
  3. Associate Editor, Pacific Asia Conference on Information Systems (PACIS), 2020 – 2023
  4. Program Committee, Workshop on Information Security and Privacy (WISP), 2020
  5. Program Committee, Workshop on Information Technologies and Systems (WITS), 2018, 2022 – 2023
- Ad Hoc Reviewer
  - Journal: Management Information Systems Quarterly (MISQ), Information Systems Research (ISR), Journal of Operations Management (JOM), Decision Support Systems (DSS), Information Technology and Management (ITEM)
  - Conference: International Conference on Information Systems (ICIS), Pacific Asia Conference on Information Systems (PACIS), Workshop on Information Security and Privacy (WISP)