



Jiangang Shu, Postdoctoral Fellow
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RESEARCH INTERESTS	Crowdsourcing & Cloud Security Data Security and Privacy Applied Cryptography	IOT Security Searchable Encryption
RESEARCH IMPACT	Google Scholar Citations: 1347 Research Gate Score: 14.13	updated on Jan. 28, 2019 updated on Jan. 28, 2019
ACADEMIC APPOINTMENTS	Postdoctoral Fellow , City University of Hong Kong Research Assistant , City University of Hong Kong Department of Computer Science Supervisor: Xiaohua Jia , Chair Professor, IEEE Fellow Research Assistant , Singapore Management University Secure Mobile Centre, School of Information Systems Supervisor: Robert H. Deng , AXA Chair Professor of Cybersecurity, IEEE Fellow	Feb. 2019 to now Sep. 2018 to Feb. 2019 Feb. 2018 to Aug. 2018
EDUCATION	Ph.D. , City University of Hong Kong Computer Science Supervisor: Xiaohua Jia , Chair Professor, IEEE Fellow M.Eng. , Nanjing University of Information Science & Technology Computer Science and Technology Supervisor: Xingming Sun , Professor B.Eng. , Nanjing University of Information Science & Technology Network Technology and Engineering	Sep. 2015 to Feb. 2019 Sep. 2012 to Jun. 2015 Sep. 2008 to Jun. 2012
REFEREED JOURNAL PUBLICATIONS	<p>[1] Jiangang Shu, Kan Yang, Xiaohua Jia*, Ximeng Liu, Cong Wang, and Robert H Deng. Proxy-Free Privacy-Preserving Task Matching with Efficient Revocation in Crowdsourcing. <i>IEEE Transactions on Dependable and Secure Computing</i>, 2018. Accepted. (中科院 2 区, IF 4.410/2017, CCF A)</p> <p>[2] Jiangang Shu, Xiaohua Jia*, Kan Yang, and Hua Wang. Privacy-Preserving Task Recommendation Services for Crowdsourcing. <i>IEEE Transactions on Services Computing</i>, 2018. Accepted. (中科院 2 区, IF 4.418/2017)</p> <p>[3] Jiangang Shu, Ximeng Liu, Kan Yang, Yinghui Zhang, Xiaohua Jia*, and Robert H Deng. SybSub: Privacy-Preserving Expressive Task Subscription with Sybil Detection in Crowdsourcing. <i>IEEE Internet of Things Journal</i>, 2018. Accepted. (中科院 1 区, IF 5.874/2017)</p> <p>[4] Jiangang Shu, Ximeng Liu, Xiaohua Jia*, Kan Yang, and Robert H Deng. Anonymous Privacy-Preserving Task Matching in Crowdsourcing. <i>IEEE Internet of Things Journal</i>, 5(4):3068-3078, 2018. (中科院 1 区, IF 5.874/2017)</p> <p>[5] Jiangang Shu, Ximeng Liu, Yinghui Zhang, Xiaohua Jia*, and Robert H Deng. Dual-side Privacy-Preserving Task Matching for Spatial Crowdsourcing. <i>Journal of Network and Computer Applications</i>, 123:101-111, 2018. (中科院 2 区, IF 3.991/2017)</p> <p>[6] Yinghui Zhang*, Jiangang Shu*, Ximeng Liu, Jin Li, and Dong Zheng*. Security Analysis of a Large-scale Concurrent Data Anonymous Batch Verification Scheme for Mobile Healthcare Crowd Sensing. <i>IEEE Internet of Things Journal</i>, 2018. Accepted. (中科院 1 区, IF 5.874/2017)</p>	

- [7] Yinghui Zhang*, Robert H Deng, **Jiangang Shu***, Kan Yang, and Dong Zheng. TKSE: Trustworthy Keyword Search over Encrypted Data with Two-side Verifiability via Blockchain. *IEEE Access*, 6:31077-31087, 2018. (中科院 2 区, **IF 3.557/2017**)
- [8] Yinghui Zhang, Jiangfan Zhao, Dong Zheng, Kaixin Deng, Fangyuan Ren, Xiaokun Zheng, and **Jiangang Shu**. Privacy-preserving data aggregation against false data injection attacks in fog computing. *Sensors*, 18(8):2659, 2018. (**SCI, IF 2.475/2017**)
- [9] Zhangjie Fu, Kui Ren, **Jiangang Shu**, Xingming Sun, and Fengxiao Huang. Enabling personalized search over encrypted outsourced data with efficiency improvement. *IEEE Transactions on Parallel and Distributed Systems*, 27(9):2546-2559, 2016. (**IF 4.181/2016, CCF A, Hot Paper**)
- [10] Zhangjie Fu, Xingming Sun, Qi Li, Lu Zhou, and **Jiangang Shu**. Achieving efficient cloud search services: multi-keyword ranked search over encrypted cloud data supporting parallel computing. *IEICE Transactions on Communications*, 98(1):190-200, 2015. (**SCI, Highly Cited Paper**)
- [11] Zhangjie Fu, **Jiangang Shu**, Jin Wang, Yuling Liu, Sungyoung Lee. Privacy-preserving Smart Similarity Search Based on Simhash over Encrypted Data in Cloud Computing. 網際網路技術學刊, 16(3):453-460, 2015. (**SCI**)
- [12] Zhangjie Fu, **Jiangang Shu**, Xingming Sun, and Nigel Linge. Smart cloud search services: verifiable keyword-based semantic search over encrypted cloud data. *IEEE Transactions on Consumer Electronics*, 60(4):762-770, 2014. (**SCI**)
- [13] 付章杰, **束建钢**, 孙星明, 周璐. 利用文本鲁棒特征的零知识水印安全检测方案. 西安电子科技大学学报, 42(4):176-181, 2015. (**EI**)
- [14] **Jiangang Shu**, Xingming Sun, Lu Zhou, and Jin Wang. Efficient Keyword Search Scheme in Encrypted Cloud Computing Environment. *International Journal of Grid and Distributed Computing*, 7(5):65-76, 2014. (**EI**)
- [15] Zhangjie Fu, Xingming Sun, **Jiangang Shu**, Lu Zhou, and Jin Wang. Verifiable Text Watermarking Detection to Improve Security. *International Journal of Security and Its Applications*, 8(5):1-10, 2014. (**EI**)

CONFERENCE PUBLICATIONS

- [1] **Jiangang Shu**, Ximeng Liu, Kan Yang, Yinghui Zhang, Xiaohua Jia, and Robert H Deng. SybMatch: Sybil Detection for Privacy-Preserving Task Matching in Crowdsourcing. In *Proceeding of 2018 IEEE Global Communications Conference (GLOBECOM)*. IEEE, 2018. Accepted. (**CCF C**)
- [2] **Jiangang Shu** and Xiaohua Jia. Secure Task Recommendation in Crowdsourcing. In *Proceeding of 2016 IEEE Global Communications Conference (GLOBECOM)*, pages 1-6. IEEE, 2016. (**CCF C**)
- [3] Zhangjie Fu, **Jiangang Shu**, and Xingming Sun. An Effective Search Scheme Based on Semantic Tree Over Encrypted Cloud Data Supporting Verifiability. In *Proceedings of 2014 SecureComm*, pages 45-54. Springer, 2014. (**CCF C**)
- [4] Zhangjie Fu, **Jiangang Shu**, Xingming Sun, and Daxing Zhang. Semantic keyword search based on trie over encrypted cloud data. In *Proceedings of 2014 SCC-ASIACCS*, pages 59-62. ACM, 2014. (**CCF C Workshop**)

TEACHING EXPERIENCE

City University of Hong Kong

Teaching Assistant , Introduction to Computer Studies	Sep. 2015 to Jun. 2016
Tutor , Introduction to Computer Studies	Sep. 2016 to Jan. 2017
Teaching Assistant , Introduction to Computer Studies	Feb. 2017 to Feb. 2018

PROJECT EXPERIENCE	<ul style="list-style-type: none"> • HK RGC GRF CityU 11208917 (Role: Key Participant) • 国家信息安全专项 p2012011043 (Role: Major Participant) 	<p>Jan. 2018 to Present</p> <p>Apr. 2012 to Jun. 2013</p>
CANDIDATE TEACHING COURSES AFTER THE ENTRY	<ul style="list-style-type: none"> • Applied Cryptography • Information Hiding and Steganography • Data Security • Wireless and Mobile Security • Introduction to Computer Studies 	
PROFESSIONAL SERVICE	<p>Referee Service</p> <ul style="list-style-type: none"> • <i>IEEE Transactions on Information Forensics and Security</i> • <i>IEEE Transactions on Services Computing</i> • <i>IEEE Transactions on Industrial Informatics</i> • <i>IEEE Access</i> • <i>Wireless Communications & Mobile Computing</i> • <i>International Journal of Distributed Sensor Networks</i> • <i>EuroS&P2019</i> • <i>ICCCN 2017</i> • <i>Globecom 2016</i> • <i>IPCCC 2016</i> 	
REFERENCES AVAILABLE TO CONTACT	<p>Xiaohua Jia, IEEE Fellow (E-mail: csjia@cityu.edu.hk, Phone: +852 34429670)</p> <ul style="list-style-type: none"> • Chair Professor & Head, Computer Science, City University of Hong Kong ◇ G7355 YEUNG, City University of Hong Kong, 83 Tat Chee Avenue, Hong Kong ★ <i>Prof. Jia is my PhD supervisor in CityU</i> <p>Robert H. Deng, IEEE Fellow (E-mail: robertdeng@smu.edu.sg, Phone: +65 68280920)</p> <ul style="list-style-type: none"> • AXA Chair Professor of Cybersecurity & Deputy Dean, School of Information Systems, Singapore Management University ◇ Singapore Management University, 80 Stamford Road, Singapore 178902 ★ <i>Prof. Deng is my supervisor when I was appointed as RA in SMU.</i> 	