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胡春强现任重庆大学“百人计划”研究员、博士生导师, 美国乔治华盛顿大学和重庆大学双博士。重庆市学术技术带头人(后备), 重庆大学先进工作者。ACM, IEEE, CCF和中国密码学会会员, CCF 区块链专委委员。国家公派高级研究学者/访问学者/博士后项目通讯评审专家。曾为美国乔治华盛顿大学访问学者。研究领域包括区块链技术, 数据驱动安全, 隐私计算等。目前以项目负责人和主研承担国家重点研发, 国家自然科学基金(重点, 面上, 青年), 重庆市自然科学基金, 重庆市技术创新及应用发展专项重点项目, 重庆市留创项目以及横向项目等共14项。目前已发表学术论文80余篇。包括在IEEE JSAC, IEEE TII, IEEE IoT, IEEE TBD, IEEE TMSCS, IEEE TPDS, IEEE TCC, IEEE TVT和IEEE INFOCOM等顶级期刊和会议上发表论文30多篇, 曾荣获ACM PAMCO 2016和WASA2018最佳论文奖。曾担任多个国际会议程序委员会委员WASA, IIKI等; 同时担任40多个国际权威期刊和会议评审, 包括IEEE TIFS, IEEE TII, IEEE TCYB, IEEE IoT, IEEE TPDS, IEEE TMC, IEEE TSC, IEEE TCC及会议评审IEEE INFOCOM 2015-2018; IEEE Globecom 2016; IEEE MASS 2016; IEEE-ACM IWQoS 2014; IEEE MiSeNet 2014; WASA 2012-2017; DCOSS 2012, 2014; Crowncom 2013, IEEE ICC 2013, 2015, 2016, 2018。

欢迎数学, 电子信息类, 计算机及软件专业学生报考博士和硕士研究生。

Google Scholar Citation:<https://scholar.google.com/citations?user=IGmdR7YAAAAJ&hl=en>

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News:

[2020/11]Our research supported by Overseas Returnees Innovation and Entrepreneurship Support Program of Chongqing.

[2020/11]Our research is supported by China Southern Power Grid Company Limited.

[2020/09]Our research is supported by National Natural Science Foundation of China(NSFC).

[2020/05]Our paper is accepted by Elsevier Information Sciences Journal 2020. Congratulations to Yuwen

[2020/05] Our paper is accepted by IEEE Internet of Things Journal 2020. Congratulations to Yuwen

[2020/04] Our paper is accepted by IEEE Internet of Things Journal, 2020.

[2019/06] Feihong Yang wins 2019 Outstanding Undergraduate Thesis Award of Chongqing University for his thesis "Implementation of School Anniversary Simulated Donation System Based on Blockchain Smart Contract." Congratulations to Feihong

[2019/01] One paper is accepted by IEEE Transactions on Cybernetics 2019

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部分科研项目：

[12] 重庆市留创计划类创新项目(优秀)：基于区块链的物联网智能安全和隐私保护机制研究，2020.11-，项目负责人

[11] 南方电网项目：边缘物联网协同控制及告警自愈技术研究，2020.11-2022.06，项目负责人

[10] 国家自然科学基金面上项目：社交网络中若干潜在隐私攻击与防御机制研究，2021.01-2024.12，项目负责人

[9] 国家重点研发计划：高置信城市信-物融合系统关键技术研发与应用，2020.01-2022.12，子课题负责人

[8] 重庆市技术创新及应用发展专项重点项目：区块链隐私保护技术研发及应用，2019/08--2022/07，合作单位负责人

[7] 国家自然科学基金重点项目：移动社交媒体大数据共享交换中的隐私保护研究，2020.01--2024.12，项目骨干

[6] 中央高校基本科研业务费“前沿交叉研究专项”重点项目：基于区块链的物联网智能安全和隐私保护机制研究，2019/01--2020/12, 项目负责人

[5] 重庆市留学人员回国创新支持计划项目（优秀资助）：云/雾计算环境下电子医疗数据安全和隐私保护关键技术研究，2018/09--.项目负责人

[4] 重庆市科技计划项目基础科学与前沿技术研究专项：智能医疗安全与隐私保护体系关键技术研究，2018/07--2021/06，项目负责人

[3] 国家自然科学基金青年基金项目：云/雾计算环境下电子医疗数据安全和隐私保护关键技术研究，2018/01--2020/12，项目负责人

[2] 国家自然科学基金项目面上项目：无线体域网中数据安全与隐私保护关键技术研究，2017/01--2020/12，项目参与（4/10）

[1] 国家自然科学基金项目面上项目：云计算框架下大规模科学计算安全外包协议研究，2015/01--2018/12，项目参与（2/10）

获奖/荣誉:

[3] 重庆大学先进工作者, 2020.

[2] **Best Paper Award**, WASA 2018.

[1] **Best Paper Award**, ACM PAMCO 2016.

学生:

在读博士研究生: 蒲誉文 (2018.09--), 陈佳俊 (2019.09--), 叶青(2019.09--), 刘泽伟(2020.09-)

在读硕士研究生: 王颖 (2018.09--), 杨飞鸿(2019.09--), 牟文浩(2019.09--), 陈虹宇(2019.09--), 姚飞(2019.09--), 王宝琳(2020.09--), 王天琪(2020.09--), 姜迪(2020.09--), 赵阳(2020.09--)

学生获奖/荣誉:

[3] 杨飞鸿(2019级 硕士), 硕士研究生国家奖, 2020.

[2] 蒲誉文(2018级 博士), 博士研究生国家奖, 2020.

[1] 杨飞鸿(2015级 本科), 重庆大学优秀毕业论文, 2019.

部分论文(*corresponding author, # co-first author):

[21] Yuwen Pu, **Chunqiang Hu***, Shaojiang Deng, Arwa Alrawais, R²PEDS: A Recoverable and Revocable Privacy-Preserving Edge Data Sharing Scheme, IEEE Internet of Things Journal, Vol.7, No.9, pp.8077-8089, 2020. (JCR 1, IF: 9.936)

[20] **Chunqiang Hu***, Yuwen Pu, Feihong Yang, Ruifeng Zhao, Arwa Alrawai, Tao Xiang, Secure and Efficient Data Collection and Storage of IoT in Smart Ocean, to appear in IEEE Internet of Things Journal 2020 (JCR 1, IF: 9.936)

[19] Yuwen Pu, Tao Xiang, **Chunqiang Hu***, Arwa Alrawais, Hongyang Yan, An Efficient Blockchain-based Privacy Preserving Scheme for Vehicular Social Networks, Elsevier Information Sciences Journal, Vol.540, pp. 308-324, 2020 (JCR 1, CCF B, IF: 5.910)

[18] Hui Xia, **Chunqiang Hu**, Fu Xiao, Xiangguo Cheng, Zhenkuan Pan, An efficient social-like semantic-aware service discovery mechanism for large-scale Internet of Things. Computer Networks 152: 210-220 (2019) (IF:3.03, CCF B, JCR Q1)

[17] Lan Gao, Shaojiang Deng, Wei Ren, **Chunqiang Hu**, Differentially Private Consensus with Quantized Communication., to appear in IEEE Transactions on Cybernetics 2019.

- [16] Hui Xia, Fu Xiao, San-shun Zhang, **Chunqiang Hu**, Xiuzhen Cheng, Trustworthiness Inference Framework in the Social Internet of Things: A Context-Aware Approach., in IEEE INFOCOM 2019, pp. 838-846. (CCF A)
- [15] Qin Hu, Shengling Wang, **Chunqiang Hu**, Jianhui Huang, Wei Li, Xiuzhen Cheng, Messages in a Concealed Bottle: Achieving Query Content Privacy With Accurate Location-Based Services., IEEE Transactions on Vehicular Technology, Vol.67, No.8, 2018, pp.7698 -7711. (JCR 1, IF:5.379)
- [14] Arwa Alrawais, Abdulrahman Althothaily, Xiuzhen Cheng **Chunqiang Hu***, Jiguo Yu, SecureGuard: A Certificate Validation System in Public Key Infrastructure., IEEE Transactions on Vehicular Technology, Vol.67, No.6, 2018, pp.5399-5408 (JCR 1, IF:5.379)
- [13] **Chunqiang Hu**, Jin Luo, Yuwen Pu, Jiguo Yu, Ruifeng Zhao, Hongyu Huang, Tao Xiang, An Efficient Privacy-Preserving Data Aggregation Scheme for IoT., WASA, pp.164-176, 2018 (CCF C) (**Best Paper Award**)
- [12] **Chunqiang Hu**, Wei Li, Xiuzhen Cheng, Jiguo Yu, Shengling Wang, and Rongfang Bie, A Secure and Verifiable Access Control Scheme for Big Data Storage in Clouds., IEEE Transactions on Big Data, Vol.4, No.3, 2018, pp. 341-355 (**The paper has been the 8th (02/2017), the 11th(03/2017), the 17th (04/2017), the 34th (05/2017), the 40th (06/2017), the 47th (07/2017) most frequently accessed document from IEEEExplore for IEEE Transactions on Big Data.**)
- [11] Kai Xing, **Chunqiang Hu#***, Jiguo Yu, Xiuzhen Cheng and Fengjuan Zhang, Mutual Privacy Preserving k-Means Clustering in Social Participatory Sensing., IEEE Transactions on Industrial Informatics, Vol.13, No.4, 2017, pp. 2066-2076. (JCR 1, SCI, IF: 9.112)
- [10] **Chunqiang Hu**, Abdulrahman Althothaily, Arwa Alrawais, Xiuzhen Cheng, Carl Sturtivant, Hang Liu, A Secure and Verifiable Outsourcing Scheme for Matrix Inverse Computation., in IEEE INFOCOM 2017, pp. 1-9. (CCF Rank A) (Acceptance ratio: 20.9%)
- [9] Yan Huo, **Chunqiang Hu**, Xiaowei Qi, Tao Jing, LoDPD: A Location Difference-based Proximity Detection Protocol., IEEE Internet of Things Journal, Vol.4, No.5, 2017, pp.1117-1124. (JCR 1, SCI, IF: 9.936)
- [8] Arwa Alrawais, Abdulrahman Althothaily, **Chunqiang Hu**, Xiuzhen Cheng, Fog Computing for the Internet of Things: Security and Privacy Issues., IEEE Internet Computing, Vol. 21, No. 2, 2017, pp. 34-42 (SCI, IF: 1.4) (**The paper has been the first (from 03/2017 to 12/2017), the second (from 01/2018 to 07/2018), the third (from 08/2018 to 10/2018), the first (11/2018) most frequently accessed document from IEEEExplore for IEEE Internet Computing.**) (**ESI高被引**)
- [7] **Chunqiang Hu**, Ruinian Li, Wei Li, Jiguo Yu, Zhi Tian, Rongfang Bie. Efficient Privacy-Preserving Schemes for Dot-Product Computation in Mobile Computing., ACM PAMCO 2016, pp. 51-59. (**Best Paper Award**)
- [6] **Chunqiang Hu**, Hongjuan Li, Yan Huo, Tao Xiang and Xiaofeng Liao, Secure and Efficient Data Communication Protocol for Wireless Body Area Networks., IEEE Transactions on Multi-Scale Computing Systems, Vol. 2, No. 2, 2016, pp.94-107. (**The paper has been the 4th (11/2016), the 3rd(11/2016), the 4th(01/2017), the 5th(02/2017), the 8th(03/2017), the 6th(04/2017), the 9th(05/2017), the 13th(06/2017), the 6th(07/2017), the 11th(08/2017), the 22nd(09/2017) the 14th(10/2017), the**

12th(11/2017), the 28th(12/2017), the 12th(01/2018) most frequently accessed document from IEEEExplore for IEEE Transactions on Multi-Scale Computing Systems.)

[5] Hongjuan Li, Xiuzhen Cheng, Keqiu Li, **Chunqiang Hu**, and Nan Zhang, Robust Collaborative Spectrum Sensing Schemes for Cognitive Radio Networks., IEEE Transactions on Parallel and Distributed Systems, Vol.25, No.8, 2014, pp. 2190-2200. (SCI, Impact Factor: 2.173, CCF Rank A)

[4] Xinyu Lei, Xiaofeng Liao, Tingwen Huang, Huaqing Li, and **Chunqiang Hu**, Outsourcing Large Matrix Inversion Computation to A Public Cloud., IEEE Transactions on Cloud Computing, Vol.1, No.1, 2013, pp. 78-87. (SCI)

[3] **Chunqiang Hu**, Nan Zhang, Hongjuan Li, Xiuzhen Cheng, and Xiaofeng Liao, Body Area Network Security: A Fuzzy Attribute-Based Signcryption Scheme., IEEE Journal on Selected Areas in Communications, Vol.31, No.9, 2013, pp.37-46. (SCI, IF: 11.42, CCF Rank A)

[2] **Chunqiang Hu**, Xiuzhen Cheng, Fan Zhang, Dengyuan Wu, Xiaofeng Liao, and Dechang Chen, OPFKA: Secure and Efficient Ordered-Physiological-Feature based Key Agreement for Wireless Body Area Networks, in IEEE INFOCOM, pp.2322-2330, 2013. (CCF Rank A) (Acceptance ratio: 17%)

[1] **Chunqiang Hu**, Xiaofeng Liao, Xiuzhen Cheng, Verifiable multi-secret sharing based on LFSR sequences. Theoretical Computer Science, Vol. 445, pp.52-62, 2012 (CCF B)

专利/软著:

[2]徐浩, **胡春强**, 基于区块链的学生社团管理系统, 软件著作权, 登记号: 2020SR0909416, 2020.08.

[1] 杨飞鸿, **胡春强**, 基于区块链的公益捐款系统, 软件著作权, 登记号: 2020SR0303132, 2020.04

Professional Affiliations and Service:

Member of CCF (11/2017---)

Member of IEEE (01/2014--)

Member of ACM (01/2016--)

Technical Program Committee (TPC) member: IIKI 2014, 2015, 2016; WASA 2014, 2015, 2016. IEEE Globecom 2019, 2020.

Journal Referee:

IEEE Transactions on Parallel & Distributed Systems (TPDS), IEEE Transactions on Information Forensics and Security (TIFS), IEEE Transactions on Services Computing (TSC), IEEE Transactions on Mobile Computing, IEEE Transactions on Cloud Computing, IEEE Transactions on Industrial Informatics, IEEE Transactions on Cybernetics, IEEE Internet of Things Journal, EURASIP Journal on Wireless Communications and Networking, Information Sciences, etc.

Conference Referee:

IEEE INFOCOM 2015, 2016, 2018; IEEE ICC 2013, 2015, 2016, 2018; IEEE Globecom 2016, 2019, 2020; IEEE MASS 2016; IEEE-ACM IWQoS 2014; IEEE MiSeNet 2014; WASA 2012, 2013, 2014, 2015, 2016, 2017; DCOSS 2012, 2014; Crowncom 2013.

INVITED TALKS/PRESENTATIONS

Securing Body Area Networks--Key Management and Access Control, Qufu Normal University, China, October, 2017.

Achieving Privacy Preservation and Billing via Delayed Information Release, HotPrivacy Workshop in conjunction with IEEE PAC 2017, August 1-3, 2017, Washington DC.

Big Data Security and Privacy--Access Control and Secure Computation, Beijing Key Laboratory of IOT Information Security Technology, Institute of Information Engineering, CAS, China, August, 2017.

Privacy-Preserving and Secure Cryptographic Schemes for Wireless Applications, North China University of Technology, March, 2017.

Privacy-Preserving and Secure Cryptographic Schemes for Wireless Applications, Shandong University, September, 2016.

Securing Body Area Networks-Key Management and Access Control, Chongqing University of Technology, September, 2016.

Privacy-Preserving and Secure Cryptographic Schemes for Wireless Applications, Beijing Key Laboratory of IOT Information Security Technology, Institute of Information Engineering, CAS, China, September, 2015.

Privacy-Preserving and Secure Cryptographic Schemes for Wireless Applications, Wireless Network and Information Perception Center, Beijing Jiaotong University, China, August, 2015.

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