

CURRICULUM VITAE

Xiaohua Jia

Chair Professor, ACM Fellow, IEEE Fellow (Computer Society)
Director of Center of Decentralized Trust Computing (CDTC)
Chair of IEEE TCDP (Technical Community of Distributed Processing)
City University of Hong Kong
csjia@cityu.edu.hk

Qualifications

1987 – 1991. **DSc**, University of Tokyo

1984 – 1986. **MSc**, Univ. of Science and Technology of China

1979 – 1984. **BSc**, Univ. of Science and Technology of China

Employment

1996 – Present, Chair Professor (2007), Professor (2003), Assoc Professor (1996)
Dept of Computer Science, City University of Hong Kong

1991 – 1996, Lecturer
Dept. of Computer Science, University of Queensland, Australia

Summary of Research Achievements

- Received over 40 research grants as PI (Principal Investigator), including RGC SRFS grant, 1 RIF grant, 1 CRF grant, 18 GRF (CERG) grants, 2 NSFC Key Research Grants, and 4 NSFC Grants
- Published over 300 Journal articles and 200 conference papers (<https://dblp.org/pid/j/XiaohuaJia.html>)
- H-index = 68 with total citations over 19,500 according to Google Scholar

Awards and Recognitions

- ACM Fellow (2025)
- Hong Kong RGC (Research Grant Council) Senior Research Fellow Award, Jul 2024
- IEEE TCDP (Technical Committee on Distributed Processing) Outstanding Service and Contributions Award, 2024
- Best Paper Award, “EMGSense: A Low-Effort Self-Supervised Domain Adaptation Framework for EMG Sensing”, IEEE International Conference on Pervasive Computing and Communications (Percom 2023), Mar 2023
- Best Paper Award, “ReDetect: Reentrancy Vulnerability Detection in Smart Contracts with High Accuracy,” IEEE MSN (Mobility, Sensing and Networking), Dec 2021
- Best Paper Award, “HybrIDX: New Hybrid Index for Volume-hiding Range Queries in Data Outsourcing Services”, IEEE ICDCS, 2020
- Best Paper Award, “SNIFF: A Scalable Network Inference Framework for Measuring End-to-End Performance Based on Matrix Completion”, IEEE 5th International Conference on Big Data Computing and Communications (BIGCOM), Aug 2019
- ACM Distinguished Member, 2018
- Best Student Paper Award, “Reservation Schemes for IaaS Cloud Broker: A Time-multiplexing Way for Different Rental Time”, The 14th IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA), Aug 2016

- Best Student Paper Award, “Distributed load scheduling in smart community with capacity constrained local power supplier,” The 34th IEEE International Performance Computing and Communications Conference (IPCCC), 2015
- IEEE Fellow (Computer Society), 2013
- IEEE Outstanding Service Award, 2010
- ACM Recognition of Service Award, 2008

Journal Editorship

- Editor-in-Chief, EAI (European Alliance for Innovation) Transactions on Scalable Information Systems (<https://eudl.eu/journal/sis>)
- Associate Editor, IEEE Trans on Computers, Sept 2021 -
- Associate Editor, IEEE Journal of Internet of Things, 2012 - 2018
- Associate Editor, IEEE Trans on Parallel and Distributed Systems, 2006 – 2009
- Editor on Board, Journal of World Wide Web: Internet and Web Information Systems (Kluwer Academic)
- Editor on Board, Journal of Combinatorial Optimization (Kluwer Academic)
- Editor on Board, Journal of Networks (Academy Publisher)
- Editor on Board, The Journal of Supercomputing (Springer), 2004 – 2007
- Editor on Board, International Journal of Wireless and Mobile Computing (Inderscience)

Major International Conference Organizations

- General Co-Chair, IEEE ICDCS 2023, Hong Kong, Jul 2023
- General Co-Chair, ACM Turing Celebration Conference - China (ACM TURC 2021), Hefei, Jul-Aug 2021
- Steering Committee Member, Workshop on "Intelligent Things and Services" (InThingsS) jointly held with IEEE WoWMoM, 2021, 2020, <http://wowmom2021.iit.cnr.it/workshops/inthings-2021/>
- TPC member, ACM ICN 2021
- TPC Chair, The 8th International Conference on Advanced Cloud and Big Data (CBD 2020), Taiyuan, China, Dec, 2020
- General Co-Chair, ACM ICN (Information Centric Networks), Sept 2019
- TPC Area-Chair, IEEE Infocom, 2017, 2016, 2015, 2010
- TPC Vice-Chair on “"Mobile and Wireless Computing", IEEE International Conference on Distributed Computing Systems (ICDCS), 2019, 2015
- Director, Croucher Foundation Advanced Study Institute (ASI) on Information Security and Privacy in Social Networks and Cloud Computing, Hong Kong, Dec, 2014
- Local Organization Co-Chair, ACM SIGCOMM’13, Hong Kong, Aug 2013
- Co-Chair, The 8th International Conference on Wireless Algorithms, Systems, and Applications (WASA 2013), August, Zhangjiajie, China, 2013.

- General Chair, The 3rd IEEE International Workshop on Security and Privacy in Cloud Computing, in Conjunction with IEEE ICDCS, Macau, Jun 2012.
- Co-Chair, The First IEEE International Workshop on Internet of Things: Smart Objects and Services, in conjunction with IEEE WoWMoM, SFO, USA, Jun 2012.
- TPC Co-Chair, Wireless Ad Hoc and Sensor Networks Symposium, International Conference on Computing, Networking and Communications (ICNC), Hawaii, Jan-Feb 2012.
- Panel Co-Chair, IEEE Infocom, 2011.
- TPC Co-Chair, IEEE GlobeCom 2010 - Ad Hoc and Sensor Networking Symposium, 2010.
- TPC Co-Chair, IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS), Hong Kong, Oct 2009.
- International Liaison Co-Chair, IEEE International Conf on Distributed Computing Systems (ICDCS), Beijing, Jun 2008.
- General Chair, ACM International Symposium on Mobile Ad Hoc Networking and Computing, Hong Kong, May 2008.
- Co-Chair, Mobile Computing Symposium, in conjunction with International Wireless Communication and Mobile Computing Conf (IWCMC), 2008, 2007, 2006.
- General Co-Chair, The 2nd International Conference on Mobile Ad Hoc and Sensor Networks (MSN), 2008, 2006.
- General Co-Chair, International Workshop on Theoretical and Algorithmic Aspects of Sensor and Ad-hoc Networks, Miami, June, 2007.
- Director, Croucher Foundation Advanced Study Institute on Wireless Sensor Networks: Theory and Applications, Hong Kong, Dec, 2006.
- General Chair, First ACM/CreateNet International Conference on Scalable Information Systems (INFOSCALE), 30 May - 1 Jun 2006, Hong Kong.
- International Vice-Chair, IEEE Infocom, 2005.
- Co-Chair, NSF workshop on Theoretical Aspects of Wireless Ad Hoc Networks, Chicago, Jun 2004.
- Co-Chair, IEEE ICDCS Workshop on New Advances of Web Server and Proxy Technologies, USA, May 2003.
- Vice Co-Chair of 6th IEEE International Conf on Computer Communications and Networks (IC3N), USA, 1997.
- TPC member, IEEE INFOCOM, 2009, 2008, 2007, 2005, 2004

Major Administration and Community Services

- Chair of IEEE TCDP (Technical Community of Distributed Processing), 2026 – present
- Director of CityU Applied Strategic Development Center: Center of Decentralized Trust Computing (CDTC)
- Head of Department of Computer Science, City University of Hong Kong (2018 – present)
- Member of CityU DongGuang Campus Preparation (Steering) Committee (2019 – present)
- Member of HKIE Accreditation Committee for Computer Science, 2021 - 2026
- Member of IEEE Fellow Evaluation Committee (Computer Society), 2020 - 2018, 2016 - 2014

- CityU Outstanding Research Award Committee (2014 – 2020)
- Member of Technology Advisory Panel, Hong Kong Science & Technology Parks (2010 – 2018)
- Member of Working Group of CityU - Mainland Joint PhD Programme (2010 - present)
- Member of College Committee, CSE, CityU (2012 – 2016)
- Member of Board of Graduate Studies (BGS), CityU (2012 - present)
- Member of Committee on Research Degrees Candidature (CRDC), CityU (2012 - present)
- Member of NSFC/RGC Joint Research Scheme Joint Selection Committee (2010 – 2013)
- Member of HK RGC Engineering Panel (2007 – 2013)

Research Grants (PI only)

- 1) Robust Aggregation, Proof-of-data and Proof-of-training in Federated Learning, RGC Senior Research Fellow Scheme (SRFS2425-1S01), HK\$7,992,660, 1 Jan 2025 – 31 Dec 2029
- 2) Secure and Compressed Key-Value Store for Outsourced Data in Cloud Computing, RGC GRF grant (CityU 11211422), HK\$1,367,050, 1 Jan 2023 – 31 Dec 2025
- 3) Secure and Incentivized Data Sharing with Enhanced Ownership for Decentralized Networks, RGC RIF (Research Impact Fund), Ref. No.: R1012-21, HK\$7,842,858, 30 Jun 2022 – 29 Jun 2026.
- 4) A Blockchain-based Federated Crowdsourcing Platform for Privacy-preserving Applications, RGC GRF grant (CityU 11213920), HK\$ 1,057,394, 1 Jan 2021 – 31 Dec 2023.
- 5) A Secure and Verifiable P2P Storage Framework with Dynamic Encrypted Search using Blockchain, RGC GRF grant (CityU 11202419), HK\$731,089, 1 Jan 2020 – 31 Dec 2022
- 6) Computing Network Fusion and Adaptive Memory Network, Huawei Technology Co Ltd, HK\$1,000,000 (Project No: 9229057), Feb 2021
- 7) Privacy-preserving Task Recommendation for Cloud-based Crowdsourcing, RGC GRF grant (CityU 11208917), HK\$700,000, 1 Jan 2018 – 31 Dec 2020
- 8) Security and Privacy-enhancing Technologies for Cloud Storage of Big Data, RGC CRF (Collaborative Research Grant) grant (CityU C1008-16G), HK\$5,983,404, 1 Jul 2017 – 30 Jun 2020
- 9) 泛在网安全搜索基础理论与技术, NSF China Key Project (Grant No. 61732022), RMB\$3,250,000, 1 Jan 2018 – 31 Dec 2022
- 10) 面向云数据高级查询的可搜索加密模型与关键技术, NSF China (Grant No. 61672195), RMB\$630,000, 1 Jan 2017 – 31 Dec 2020
- 11) A Wireless and Distributed Control Plane Network for Data Centers, RGC GRF grant (CityU 11214316), HK\$675,647, 1 Jan 2017 – 31 Dec 2019
- 12) Generalized Pattern Matching String Search on Encrypted Data, RGC GRF grant (CityU11204215), HK\$871,036, 1 Jan 2016 – 31 Dec 2018
- 13) Information Security and Privacy in Social Networks and Cloud Computing, The Croucher Foundation ASI (Advanced Study Institute), (CityU 9500021), Dec 2014, HK\$410,000
- 14) Privacy-Preserving Algorithms for Outsourced Data Mining in Cloud Computing, RGC GRF grant (CityU 9042037), HK\$692,894, 1 Jan 2015 – 31 Dec 2017
- 15) Information Centric Networks and Software Defined Networks for Cloud Services, funded by Huawei Technology Co Ltd, HK\$1,395,000, Sept 2013 – Aug 2015.
- 16) Minimal Cost and Time-sensitive Information Diffusion in Online Social Networks, RGC GRF grant (CityU 9041886), HK\$645,500, 1 Sept 2013 – 31 Aug 2016.
- 17) Data Integrity Auditing and Access Control for Cloud Storage Systems, RGC GRF grant (CityU 114112), HK\$700,000, 1 Sept 2012 – 31 Aug 2015.
- 18) 压缩传感在无线传感器网络应用中的关键技术研究 (Algorithmic Issues of Using Compressive Sensing in Wireless Sensor Networks), NSF China (Grant No. 61173137), RMB\$590,000, Jan 2012 – Dec 2015.

- 19) Minimal Cost Deployment of Multi-radio and Multi-rate Wireless Mesh Networks with QoS Requirements in Indoor Environment, funded by RGC RGF grant (No. CityU 114710), HK\$652,671, Jan 11 - Dec 13.
- 20) 多信道多收发器传感器网络的低时延数据分发、聚合和收集研究 (Low Latency Data Dissemination, Aggregation and Collection in Multi-Radio and Multi-Channel Wireless Sensor Networks), funded by NSF China, RMB\$290,000, Jan 2010 – Dec 2012.
- 21) Minimum Latency Transmission Scheduling for Multi-radio, Multi-channel and Multi-hop Wireless Networks, funded by CityU SRG (grant No. 7008041), HK\$180,000, Sept 09 – Aug 2011.
- 22) The Impact of Multiple Radios and Multiple Channels on Communication Latency in Multihop Wireless Networks, funded by CityU SRG (grant No. 7002359), HK\$180,000, Sept 08 – Aug 10.
- 23) Max-Lifetime Sleep Scheduling for Surveillance Applications of Wireless Sensor Networks, funded by RGC CERG grant (CERG No. CityU 114307), HK\$871,200, Jan 08 - Dec 10.
- 24) 可信移动互联网的关键理论与应用研究 (Trustworthy Mobile Internet: Theory and Applications), NSF China Key Project, RMB\$2,000,000, Jan 2007 – Dec 2010.
- 25) Topology Control of Wireless Mesh Networks, consultant project funded by Huawei Technology Co Ltd, HK\$400,000, Jul 2007 – Jun 2009.
- 26) Minimum Latency Communication Schedules for Information Dissemination and Aggregation in Wireless Ad Hoc and Sensor Networks, funded by RGC CERG grant (CERG No. CityU 114006), HK\$876,780, Jan 07 - Dec 09.
- 27) Energy Efficient Query Dissemination and Real-time Data Aggregation in Wireless Sensor Networks, funded by RGC CERG grant (CERG No. CityU 114505), HK\$378,700, Jan 06 – Dec 07.
- 28) Virtual Backbone Construction in Multihop Ad Hoc Wireless Networks, funded by RGC CERG grant (CERG No. CityU 1149/04E), HK\$339,414, Dec 04 – Nov 06.
- 29) Data Replication and Consistency Control in Content Distribution Networks (CDN)s, funded by CityU SRG (grant No. 7001590), HK\$178,000, Sept 04 – Aug 06.
- 30) Proxy placement and data replication for content distribution networks, funded by RGC CERG grant (CERG No. CityU 1209/03E), Co-I: Andy Yao, HK\$324,000, Dec 03 – Nov 05.
- 31) Proxy Server Selection under Budget Constraint for CDNs, funded by CityU Strategic Research Grant (No.7001438), HK\$197,000, Sept 03 – Aug 05.
- 32) Web 代理最优安放与数据对象最优复制方法研究 (Optimal Web Proxy Placement and Data Replications in CDNs) funded by NSF China (grant No. 60273071), RMB\$76,000, Jan 2003 – Dec 2003.
- 33) Adaptive and Efficient QoS Multicast Routing Methods for Mobile Ad Hoc Networks (MANETs), funded by RGC CERG grant (CERG No. CityU 1079/02E), HK\$413,404, Dec 02 – Nov 04.
- 34) QoS multicast routing and topology control for ad hoc networks, funded by CityU Strategic Research Grant (No.7001346), HK\$247,660, Sept 02 – Aug 04.
- 35) Placement of Proxies for Mirrored Web Servers, funded by CityU Strategic Research Grant (No.7001182), HK\$249,425, Sept 01 – Aug 03.
- 36) Real-time Multicast Routing in WDM Networks, funded by CityU Strategic Research Grant (No. 7001121, 7001297 with C.H.Lee), HK\$250,000, Oct 00 – Sept 02.
- 37) Routing and Wavelength Assignment for Multicast Communications in WDM networks, funded by CityU Strategic Research Grant (No.7001035), HK\$279,816, Sept 00 – Aug 02.
- 38) Dynamic Steiner Problems for Group Communications, funded by RGC Competitive Earmarked Research Grant (CERG No. 9040445), HK\$405,000, Dec 99 – Nov 01.

- 39) A real-time distributed unconstrained cooperative editing system, funded by RGC Competitive Earmarked Research Grant (CERG No.9040442), HK\$425,000, Sept 99 – Aug 01.
- 40) Real-time multicast connection establishment in ATM networks, funded by British Council & RGC (No. 9050128), HK\$78,000, Jul 99 – Jun 00.
- 41) A real-time multicast connection establishment scheme for high speed networks, funded by CityU Strategic Research Grant (No. 7000927), HK\$279,000, Feb 99 – Jul 01.
- 42) Multi-rate Switching Networks, funded by CityU Strategic Research Grant (No. 7000778), HK\$270,000, Aug 98 – Jul 2000.
- 43) Real-time multicast communications, funded by CityU Strategic Research Grant (No. 7000677), HK\$267,450, Aug 97 – Jul 1999.
- 44) Real-time multicast channel establishment, funded by Small Scale Research Grant (No. 9030528) at City U of HK, HK\$39,690, 1996 – 97.
- 45) A hierarchy framework for designing distributed systems, funded by CityU Strategic Research Grant (No. 7000641) at City U of HK, HK\$308,000, Jan 97 – Dec 98.
- 46) A reliable architecture for building distributed systems, funded by Australian Research Council (ARC) grant (No. A4941290), AUS\$17,200, 1993 - 1995.
- 47) A New Computational Model for Concurrent and Parallel Processing (1992), funded by New Staff Research Grant at the Univ. of Queensland, AUS\$27,000, 1992.

Selected Journal Articles Since 2015 (full list at <https://dblp.org/pid/j/XiaohuaJia.html>)

- [1] Mingyang Song, Zhongyun Hua, Yifeng Zheng, Hejiao Huang, Xiaohua Jia, “LSDedup: Layered Secure Deduplication for Cloud Storage,” *IEEE Trans. Computers* 73(2): 422-435 (2024).
- [2] Chen Zhang, Qingyuan Xie, Mingyue Wang, Yu Guo, Xiaohua Jia, “Optimal Compression for Encrypted Key-Value Store in Cloud Systems,” *IEEE Trans. Computers* 73(3): 928-941 (2024).
- [3] Jing Li, Song Guo, Weifa Liang, Jianping Wang, Quan Chen, Wenchao Xu, Kang Wei, Xiaohua Jia, “Mobility-Aware Utility Maximization in Digital Twin-Enabled Serverless Edge Computing,” *IEEE Trans. Computers* 73(7): 1837-1851 (2024).
- [4] Yifeng Zheng, Menglun Zhou, Songlei Wang, Hejiao Huang, Xiaohua Jia, Xun Yi, Cong Wang, “SecDR: Enabling Secure, Efficient, and Accurate Data Recovery for Mobile Crowdsensing,” *IEEE Trans. Dependable Secur. Comput.* 21(2): 789-803 (2024).
- [5] Lei Xu, Anxin Zhou, Huayi Duan, Cong Wang, Qian Wang, Xiaohua Jia, “Toward Full Accounting for Leakage Exploitation and Mitigation in Dynamic Encrypted Databases,” *IEEE Trans. Dependable Secur. Comput.* 21(4): 1918-1934 (2024).
- [6] Yinbin Miao, Feng Li, Xiaohua Jia, Huaxiong Wang, Ximeng Liu, Kim-Kwang Raymond Choo, Robert H. Deng, “REKS: Role-Based Encrypted Keyword Search With Enhanced Access Control for Outsourced Cloud Data,” *IEEE Trans. Dependable Secur. Comput.* 21(4): 3247-3261 (2024).
- [7] Mingyang Song, Zhongyun Hua, Yifeng Zheng, Tao Xiang, Xiaohua Jia, “Enabling Transparent Deduplication and Auditing for Encrypted Data in Cloud,” *IEEE Trans. Dependable Secur. Comput.* 21(4): 3545-3561 (2024).
- [8] Jie Xu, Zihan Wu, Cong Wang, Xiaohua Jia, “Machine Unlearning: Solutions and Challenges,” *IEEE Trans. Emerg. Top. Comput. Intell.* 8(3): 2150-2168 (2024).
- [9] Chen Zhang, Yulong Ming, Mingyue Wang, Yu Guo, Xiaohua Jia, “Encrypted and Compressed Key-Value Store With Pattern-Analysis Security in Cloud Systems,” *IEEE Trans. Inf. Forensics Secur.* 19: 221-234 (2024).
- [10] Yu Guo, Yu Zhao, Saihui Hou, Cong Wang, Xiaohua Jia, “Verifying in the Dark: Verifiable Machine Unlearning by Using Invisible Backdoor Triggers,” *IEEE Trans. Inf. Forensics Secur.* 19: 708-721 (2024).
- [11] Haodi Wang, Yu Guo, Rongfang Bie, Xiaohua Jia, “Verifiable Arbitrary Queries With Zero Knowledge Confidentiality in Decentralized Storage,” *IEEE Trans. Inf. Forensics Secur.* 19: 1071-1085 (2024).
- [12] Mingyue Wang, Zizhuo Chen, Yinbin Miao, Hejiao Huang, Cong Wang, Xiaohua Jia, “Cross-User Leakage Mitigation for Authorized Multi-User Encrypted Data Sharing,” *IEEE Trans. Inf. Forensics Secur.* 19: 1213-1226 (2024).
- [13] Mingyang Song, Zhongyun Hua, Yifeng Zheng, Tao Xiang, Xiaohua Jia, “SimLESS: A Secure Deduplication System Over Similar Data in Cloud Media Sharing,” *IEEE Trans. Inf. Forensics Secur.* 19: 4700-4715 (2024).
- [14] Songlei Wang, Yifeng Zheng, Xiaohua Jia, Cong Wang, “eGrass: An Encrypted Attributed Subgraph Matching System With Malicious Security,” *IEEE Trans. Inf. Forensics Secur.* 19: 5999-6014 (2024).

- [15] Xiao Sun, Haining Yu, Zhichao Liu, Xiaohua Jia, “MI-VFDNN: An Efficient Vertical Federated Deep Neural Network With Multi-Layer Interaction,” *IEEE Trans. Inf. Forensics Secur.* 19: 7435-7448 (2024).
- [16] Dianjie Lu, Guijuan Zhang, Xiaohua Jia, “Stochastic Optimal Intervention for Robot-Assisted Crowd Evacuation,” *IEEE Trans. Intell. Transp. Syst.* 25(5): 3812-3827 (2024).
- [17] Jing Li, Song Guo, Weifa Liang, Jianping Wang, Quan Chen, Yue Zeng, Baoliu Ye, Xiaohua Jia, “Digital Twin-Enabled Service Provisioning in Edge Computing via Continual Learning,” *IEEE Trans. Mob. Comput.* 23(6): 7335-7350 (2024).
- [18] Jie Xu, Sen Peng, Cong Wang, Xiaohua Jia, “PuffChain: A Dynamic Scaling Blockchain System With Optimal Effective Throughput,” *IEEE Trans. Netw. Sci. Eng.* 11(3): 3199-3212 (2024).
- [19] Shuyue Li, Jing Li, Chaocan Xiang, Wenzheng Xu, Jian Peng, Ziming Wang, Weifa Liang, Xin-Wei Yao, Xiaohua Jia, Sajal K. Das, “Maximizing Network Throughput in Heterogeneous UAV Networks,” *IEEE/ACM Trans. Netw.* 32(3): 2128-2142 (2024).
- [20] Yuncan Zhang, Weifa Liang, Wenzheng Xu, Zichuan Xu, Xiaohua Jia, “Cost Minimization of Digital Twin Placements in Mobile Edge Computing,” *ACM Trans. Sens. Networks* 20(3): 74:1-74:26 (2024).
- [21] Jie Xu, Yulong Ming, Zihan Wu, Cong Wang, Xiaohua Jia, “X-Shard: Optimistic Cross-Shard Transaction Processing for Sharding-Based Blockchains,” *IEEE Trans. Parallel Distributed Syst.* 35(4): 548-559 (2024).
- [22] Jie Xu, Cong Wang, Xiaohua Jia, “A Survey of Blockchain Consensus Protocols,” *ACM Comput. Surv.* 55(13s): 278:1-278:35 (2023).
- [23] Jiangang Shu, Tingting Yang, Xinying Liao, Farong Chen, Yao Xiao, Kan Yang, Xiaohua Jia, “Clustered Federated Multitask Learning on Non-IID Data With Enhanced Privacy,” *IEEE Internet Things J.* 10(4): 3453-3467 (2023).
- [24] Qunli Shen, Jian Peng, Wenzheng Xu, Yueying Sun, Weifa Liang, Liangyin Chen, Qijun Zhao, Xiaohua Jia, “Fair Communications in UAV Networks for Rescue Applications,” *IEEE Internet Things J.* 10(23): 21013-21025 (2023).
- [25] Wanling Lin, Xiao-Yan Li, Jou-Ming Chang, Xiaohua Jia, “Constructing Multiple CISTs on BCube-Based Data Center Networks in the Occurrence of Switch Failures,” *IEEE Trans. Computers* 72(7): 1971-1984 (2023).
- [26] Ruitao Xie, Junhong Fang, Junmei Yao, Xiaohua Jia, Kaishun Wu, “Sharing-Aware Task Offloading of Remote Rendering for Interactive Applications in Mobile Edge Computing,” *IEEE Trans. Cloud Comput.* 11(1): 997-1010 (2023).
- [27] Yu Guo, Hongcheng Xie, Mingyue Wang, Xiaohua Jia, “Privacy-Preserving Multi-Range Queries for Secure Data Outsourcing Services,” *IEEE Trans. Cloud Comput.* 11(3): 2431-2444 (2023).
- [28] Qihui Li, Xiaohua Jia, Chuanhe Huang, Haizhou Bao, “A Dynamic Combinatorial Double Auction Model for Cloud Resource Allocation,” *IEEE Trans. Cloud Comput.* 11(3): 2873-2884 (2023).
- [29] Haining Yu, Hongli Zhang, Xiaohua Jia, Xiao Chen, Xiangzhan Yu, “pSafety: Privacy-Preserving Safety Monitoring in Online Ride Hailing Services,” *IEEE Trans. Dependable Secur. Comput.* 20(1): 209-224 (2023).

- [30] Yu Guo, Chen Zhang, Cong Wang, Xiaohua Jia, “Towards Public Verifiable and Forward-Privacy Encrypted Search by Using Blockchain,” *IEEE Trans. Dependable Secur. Comput.* 20(3): 2111-2126 (2023).
- [31] Mingyang Song, Zhongyun Hua, Yifeng Zheng, Hejiao Huang, Xiaohua Jia, “Blockchain-Based Deduplication and Integrity Auditing Over Encrypted Cloud Storage,” *IEEE Trans. Dependable Secur. Comput.* 20(6): 4928-4945 (2023).
- [32] Songlei Wang, Yifeng Zheng, Xiaohua Jia, Qian Wang, Cong Wang, “MAGO: Maliciously Secure Subgraph Counting on Decentralized Social Graphs,” *IEEE Trans. Inf. Forensics Secur.* 18: 2929-2944 (2023).
- [33] Xiao Chen, Haining Yu, Xiaohua Jia, Xiangzhan Yu, “APFed: Anti-Poisoning Attacks in Privacy-Preserving Heterogeneous Federated Learning,” *IEEE Trans. Inf. Forensics Secur.* 18: 5749-5761 (2023).
- [34] Yuchuan Luo, Shaojing Fu, Xiaohua Jia, Ming Xu, Yingwen Chen, “P2Ride: Practical and Privacy-Preserving Ride-Matching Scheme for Ridesharing,” *IEEE Trans. Intell. Transp. Syst.* 24(3): 3584-3593 (2023).
- [35] Hongliang Zhou, Yifeng Zheng, Hejiao Huang, Jiangang Shu, Xiaohua Jia, “Toward Robust Hierarchical Federated Learning in Internet of Vehicles,” *IEEE Trans. Intell. Transp. Syst.* 24(5): 5600-5614 (2023).
- [36] Songlei Wang, Yifeng Zheng, Xiaohua Jia, Xun Yi, “Privacy-Preserving Analytics on Decentralized Social Graphs: The Case of Eigendecomposition,” *IEEE Trans. Knowl. Data Eng.* 35(7): 7341-7356 (2023).
- [37] Yifeng Zheng, Weibo Wang, Songlei Wang, Xiaohua Jia, Hejiao Huang, Cong Wang, “SecSkyline: Fast Privacy-Preserving Skyline Queries Over Encrypted Cloud Databases,” *IEEE Trans. Knowl. Data Eng.* 35(9): 8955-8967 (2023).
- [38] Songlei Wang, Yifeng Zheng, Xiaohua Jia, Hejiao Huang, Cong Wang, “PrigSim: Towards Privacy-Preserving Graph Similarity Search as a Cloud Service,” *IEEE Trans. Knowl. Data Eng.* 35(10): 10478-10496 (2023).
- [39] Yuchen Li, Weifa Liang, Wenzheng Xu, Zichuan Xu, Xiaohua Jia, Yinlong Xu, Haibin Kan, “Data Collection Maximization in IoT-Sensor Networks via an Energy-Constrained UAV,” *IEEE Trans. Mob. Comput.* 22(1): 159-174 (2023).
- [40] Jing Li, Weifa Liang, Yuchen Li, Zichuan Xu, Xiaohua Jia, Song Guo, “Throughput Maximization of Delay-Aware DNN Inference in Edge Computing by Exploring DNN Model Partitioning and Inference Parallelism,” *IEEE Trans. Mob. Comput.* 22(5): 3017-3030 (2023).
- [41] Jingxiang Liu, Jian Peng, Wenzheng Xu, Weifa Liang, Tang Liu, Xi Peng, Zichuan Xu, Zheng Li, Xiaohua Jia, “Maximizing Sensor Lifetime via Multi-node Partial-Charging on Sensors,” *IEEE Trans. Mob. Comput.* 22(11): 6571-6584 (2023).
- [42] Jing Li, Weifa Liang, Wenzheng Xu, Zichuan Xu, Xiaohua Jia, Albert Y. Zomaya, Song Guo, “Budget-Aware User Satisfaction Maximization on Service Provisioning in Mobile Edge Computing,” *IEEE Trans. Mob. Comput.* 22(12): 7057-7069 (2023).
- [43] Mengjie Lv, Jianxi Fan, Weibei Fan, Xiaohua Jia, “A High-Performant and Server-Centric Based Data Center Network,” *IEEE Trans. Netw. Sci. Eng.* 10(2): 592-605 (2023).

- [44] Wenzheng Xu, Hongbin Xie, Chenxi Wang, Weifa Liang, Xiaohua Jia, Zichuan Xu, Pan Zhou, Weigang Wu, Xiang Chen, “An Approximation Algorithm for the h-Hop Independently Submodular Maximization Problem and Its Applications,” *IEEE/ACM Trans. Netw.* 31(3): 1216-1229 (2023).
- [45] Mingyue Wang, Yinbin Miao, Yu Guo, Hejiao Huang, Cong Wang, Xiaohua Jia, “AESM2 Attribute-Based Encrypted Search for Multi-Owner and Multi-User Distributed Systems,” *IEEE Trans. Parallel Distributed Syst.* 34(1): 92-107 (2023).
- [46] Jie Xu, Qingyuan Xie, Sen Peng, Cong Wang, Xiaohua Jia, “AdaptChain: Adaptive Scaling Blockchain With Transaction Deduplication,” *IEEE Trans. Parallel Distributed Syst.* 34(6): 1909-1922 (2023).
- [47] Mingyang Song, Zhongyun Hua, Yifeng Zheng, Tao Xiang, Xiaohua Jia, “FCDedup: A Two-Level Deduplication System for Encrypted Data in Fog Computing,” *IEEE Trans. Parallel Distributed Syst.* 34(10): 2642-2656 (2023).
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