
 Part 1: 10 representative publications in the past 5 years

1. Xin Gao, Jarder Luo, Hui Chen, Yuanyi Zhen, Jiaquan Zhang, Xiaoming Fu, Alleviating educational inequality in math with the aid of online shadow education — the impact of equal access and equal quality mechanisms, **Education and Information Technologies**, Oct 2023
5. Yali Yuan, Weijun Wang, Yuhan Wang, Sripriya Srikant Adhatarao, Bangbang Ren, Kai Zheng, Xiaoming Fu. VSIM: Improving QoE Fairness for Video Streaming in Mobile Environments. **IEEE INFOCOM 2022**, June 2022; revision in **IEEE/ACM Transactions on Networking** (early access): <https://doi.org/10.1109/TNET.2023.3277729>
6. Shuai Xu, Xiaoming Fu, Dechang Pi, Zhuo Ma, Inferring Individual Human Mobility from Sparse Check-in Data: A Temporal-Context-Aware Approach, **IEEE Transactions on Computational Social Systems**, 11(1): 600-617, Feb 2024
2. Tingting Yuan, Weijun Wang, Liang Mi, Haipeng Dai, Xiaoming Fu, AccDecoder: Accelerated Decoding for Neural-enhanced Video Analytics, **IEEE INFOCOM 2023**
3. Tingting Yuan, Hwei-Ming Chung and Xiaoming Fu, DAMA: Learning Delay-Aware Communication for Multi-Agent Reinforcement Learning, **AAAI 2023**
4. Fabian Wölk, Tingting Yuan, Krisztina Kis-Katos, and Xiaoming Fu, A Temporal-Spatial Analysis on the Socioeconomic Development of Rural Villages in Thailand and Vietnam based on Satellite Image Data, **Computer Communications**, 203: 146-162, Apr 2023
7. Weijun Wang, Haipeng Dai, Chao Dong, Fu Xiao, Jiaqi Zheng, Xiao Cheng, Guihai Chen, Xiaoming Fu, Deployment of Unmanned Aerial Vehicles for Anisotropic Monitoring Tasks, **IEEE Transactions on Mobile Computing**, 21(2): 495-513, Feb 2022
8. Song Yang, Fan Li, Stojan Trajanovski, Xu Chen, Yu Wang, Xiaoming Fu, Delay-Aware Virtual Network Function Placement and Routing in Edge Clouds. **IEEE Transactions on Mobile Computing**. 20(2): 445-459, 2021
9. Yali Yuan, Sripriya Srikant Adhatarao, Mingkai Lin, Yachao Yuan, Zheli Liu, Xiaoming Fu: ADA: Adaptive Deep Log Anomaly Detector. **IEEE INFOCOM 2020** (virtual), pp. 2449-2458, July 2020
10. Sameer G Kulkarni, Wei Zhang, Jinho Hwang, Shriram Rajagopalan, K. K. Ramankrishnan, Timothy Wood, Mayutan Arumaithurai, Xiaoming Fu, NFVnice: Dynamic Backpressure and Scheduling for NFV Service Chains, **IEEE/ACM Transactions on Networking**. 28(2): 639-652, Apr 2020; earlier version presented at **ACM SIGCOMM 2017**.

 Part 2: referred journal papers in the past 5 years

- 2024 Lihao Wang*, Weijun Wang*, Haipeng Dai, Quyu Ben, J. Zheng, Rong Gu, Guihai Chen, Xiaoming Fu. Joint Deployment of Truck-drone Systems for Camera-based Object Monitoring, **IEEE Transactions on Mobile Computing** (accepted), Feb 2024.
- Ke Xiao, Song Yang, Fan Li, Liehuang Zhu, Xu Chen, Xiaoming Fu. Making Serverless Not So Cold in Edge Clouds: A Cost-Effective Online Approach, **IEEE Transactions on Mobile Computing**, DOI: 10.1109/TMC.2024.3355118 (early access)
- Tingting Yuan, Hwei-Ming Chung, Xiaoming Fu. PP-MARL: Efficient Privacy-Preserving Multi-agent Reinforcement Learning for Cooperative Intelligence in Communications, **IEEE Network**, DOI: 10.1109/MNET.2023.3330877 (early access)
- Shuai Xu, Xiaoming Fu, Dechang Pi, Zhuo Ma, Inferring Individual Human Mobility from Sparse Check-in Data: A Temporal-Context-Aware Approach, **IEEE Transactions on Computational Social Systems**, 11(1): 600-611 (2024)
- 2023 Xin Gao, Jarder Luo, Hui Chen, Yuanyi Zhen, Jiaquan Zhang, Xiaoming Fu. Alleviating educational inequality in math with the aid of online shadow education—the impact of equal access and equal quality mechanisms, **Education and Information Technologies**, pp. 1-23, 2023

- Enhuan Dong, Peng Gao, Yuan Yang, Mingwei Xu, Xiaoming Fu, Jiahai Yang: SmartSBD: Smart shared bottleneck detection for efficient multipath congestion control over heterogeneous networks. **Computer Networks** 237: 110047 (2023)
- Fabian Wölk, Tingting Yuan, Krisztina Kis-Katos, Xiaoming Fu: A temporal-spatial analysis on the socioeconomic development of rural villages in Thailand and Vietnam based on satellite image data. **Computer Communications**, 203: 146-162 (2023)
- Song Yang, Fan Li, Zhi Zhou, Xu Chen, Yu Wang, Xiaoming Fu: Online Control of Service Function Chainings Across Geo-Distributed Datacenters. **IEEE Transactions on Mobile Computing**, 22(6): 3558-3571 (2023)
- Yanan Gao, Song Yang, Fan Li, Stojan Trajanovski, Pan Zhou, Pan Hui, Xiaoming Fu: Video Content Placement at the Network Edge: Centralized and Distributed Algorithms. **IEEE Transactions on Mobile Computing**, 22(11): 6843-6859 (2023)
- Shichang Ding, Xiangyang Luo, Jinwei Wang, Xiaoming Fu: GNN-Geo: A Graph Neural Network-Based Fine-Grained IP Geolocation Framework. **IEEE Transactions on Network Science and Engineering**, 10(6): 3543-3560 (2023)
- Nan He, Song Yang, Fan Li, Stojan Trajanovski, Liehuang Zhu, Yu Wang, Xiaoming Fu: Leveraging Deep Reinforcement Learning With Attention Mechanism for Virtual Network Function Placement and Routing. **IEEE Transactions on Parallel and Distributed Systems**, 34(4): 1186-1201 (2023)
- 2022 Jiaquan Zhang, Hui Chen, Xiaoming Yao, Xiaoming Fu: CPFinder: Finding an unknown caller's profession from anonymized mobile phone data. **Digital Communications and Networks**, 8(3): 324-332 (2022)
- Tao Zhao, Lu Tang, Jinfeng Huang, Xiaoming Fu: Coupled social media content representation for predicting individual socioeconomic status. **Expert Systems with Applications**, 198: 116744 (2022)
- Song Yang, Jintian Liu, Fei Zhang, Fan Li, Xu Chen, Xiaoming Fu: Caching-Enabled Computation Offloading in Multi-Region MEC Network via Deep Reinforcement Learning. **IEEE Internet of Things Journal**, 9(21): 21086-21098 (2022)
- Yanan Gao, Song Yang, Fan Li, Xiaoming Fu: Adaptive and Efficient Qubit Allocation Using Reinforcement Learning in Quantum Networks. **IEEE Network**, 36(5): 48-54 (2022)
- Weijun Wang, Haipeng Dai, Chao Dong, Fu Xiao, Jiaqi Zheng, Xiao Cheng, Guihai Chen, Xiaoming Fu: Deployment of Unmanned Aerial Vehicles for Anisotropic Monitoring Tasks. **IEEE Transactions on Mobile Computing**, 21(2): 495-513 (2022)
- Yali Yuan, Chencheng Liang, Xu Chen, Thar Baker, Xiaoming Fu: Adaptive Fuzzy Game-Based Energy-Efficient Localization in 3D Underwater Sensor Networks. **ACM Transactions on Internet Technology**, 22(2): 29:1-29:20 (2022)
- Bangbang Ren, Deke Guo, Yali Yuan, Guoming Tang, Weijun Wang, Xiaoming Fu: Optimal Deployment of SRv6 to Enable Network Interconnection Service. **IEEE/ACM Transactions on Networking**, 30(1): 120-133 (2022)
- Deke Guo, Bangbang Ren, Guoming Tang, Lailong Luo, Tao Chen, Xiaoming Fu: Optimal Embedding of Aggregated Service Function Tree. **IEEE Transactions on Parallel and Distributed Systems**, 33(10): 2584-2596 (2022)
- Song Yang, Fan Li, Ramin Yahyapour, Xiaoming Fu: Delay-Sensitive and Availability-Aware Virtual Network Function Scheduling for NFV. **IEEE Transactions on Services Computing**, 15(1): 188-201 (2022)
- 2021 Song Yang, Nan He, Fan Li, Stojan Trajanovski, Xu Chen, Yu Wang, Xiaoming Fu: Survivable Task Allocation in Cloud Radio Access Networks With Mobile-Edge Computing. **IEEE Internet of Things Journal**, 8(2): 1095-1108 (2021)
- Shuai Xu, Dechang Pi, Jiuxin Cao, Xiaoming Fu: Hierarchical temporal-spatial preference modeling for user consumption location prediction in Geo-Social Networks. **Information Processing & Management**, 58(6): 102715 (2021)

- Shichang Ding, Xin Gao, Yufan Dong, Yiwei Tong, Xiaoming Fu: Estimating Multiple Socioeconomic Attributes via Home Location - A Case Study in China. **Journal of Social Computing**, 2(1): 71-88 (2021)
- Xinlei He, Qingyuan Gong, Yang Chen, Yang Zhang, Xin Wang, Xiaoming Fu: DatingSec: Detecting Malicious Accounts in Dating Apps Using a Content-Based Attention Network. **IEEE Transactions on Dependable and Secure Computing**, 18(5): 2193-2208 (2021)
- Song Yang, Fan Li, Stojan Trajanovski, Xu Chen, Yu Wang, Xiaoming Fu: Delay-Aware Virtual Network Function Placement and Routing in Edge Clouds. **IEEE Transactions on Mobile Computing**, 20(2): 445-459 (2021)
- Zhenhua Han, Haisheng Tan, Shaofeng H.-C. Jiang, Wanli Cao, Xiaoming Fu, Lan Zhang, Francis C. M. Lau: SPIN: BSP Job Scheduling With Placement-Sensitive Execution. **IEEE/ACM Transactions on Networking**, 29(5): 2267-2280 (2021)
- Song Yang, Fan Li, Stojan Trajanovski, Ramin Yahyapour, Xiaoming Fu: Recent Advances of Resource Allocation in Network Function Virtualization. **IEEE Transactions on Parallel and Distributed Systems**, 32(2): 295-314 (2021)
- Qingyuan Gong, Yang Chen, Xinlei He, Yu Xiao, Pan Hui, Xin Wang, Xiaoming Fu: Cross-site Prediction on Social Influence for Cold-start Users in Online Social Networks. **ACM Transactions on the Web**, 15(2): 6:1-6:23 (2021)
- Wei Zhou, Hong Huang, Qiang-Sheng Hua, Dongxiao Yu, Hai Jin, Xiaoming Fu: Core decomposition and maintenance in weighted graph. **World Wide Web** 24(2): 541-561 (2021)
- 2020 Tao Zhao, Hong Huang, Xiaoming Yao, Jarder Luo, Xiaoming Fu: Predicting individual socioeconomic status from mobile phone data: a semi-supervised hypergraph-based factor graph approach. **International Journal of Data Science and Analytics**, 9(3): 361-372 (2020)
- Song Yang, Fan Li, Stojan Trajanovski, Xiaoming Fu: Traffic routing in stochastic network function virtualization networks. **Journal of Network and Computer Applications**, 169: 102765 (2020)
- Xin Gao, Jar-Der Luo, Kunhao Yang, Xiaoming Fu, Loring Liu, Weiwei Gu: Predicting Tie Strength of Chinese Guanxi by Using Big Data of Social Networks. **Journal of Social Computing**, 1(1): 40-52 (2020)
- Ruidong Li, Kazuhisa Matsuzono, Hitoshi Asaeda, Xiaoming Fu: Achieving High Throughput for Heterogeneous Networks With Consecutive Caching and Adaptive Retrieval. **IEEE Transactions on Network Science and Engineering**, 7(4): 2443-2455 (2020)
- Sameer G. Kulkarni, Wei Zhang, Jinho Hwang, Shriram Rajagopalan, K. K. Ramakrishnan, Timothy Wood, Mayutan Arumaithurai, Xiaoming Fu: NFVnice: Dynamic Backpressure and Scheduling for NFV Service Chains. **IEEE/ACM Transactions on Networking**, 28(2): 639-652 (2020)
- Sameer G. Kulkarni, Guyue Liu, K. K. Ramakrishnan, Mayutan Arumaithurai, Timothy Wood, and Xiaoming Fu: REINFORCE: Achieving Efficient Failure Resiliency for Network Function Virtualization-Based Services. **IEEE/ACM Transactions on Networking** 28(2): 695-708 (2020) DOI: 10.1109/TNET.2020.2969961
- Enhuan Dong, Xiaoming Fu, Mingwei Xu, Yuan Yang: Low-Cost Datacenter Load Balancing With Multipath Transport and Top-of-Rack Switches. **IEEE Transactions on Parallel and Distributed Systems**, 31(10): 2232-2247 (2020)
- Yali Yuan, Robert Tasik, Sripriya Srikant Adhatarao, Yachao Yuan, Zheli Liu, Xiaoming Fu: RACE: Reinforced Cooperative Autonomous Vehicle Collision Avoidance. **IEEE Transactions on Vehicular Technology**, 69(9): 9279-9291 (2020)
- Shuai Xu, Xiaoming Fu, Jiuxin Cao, Bo Liu, Zhixiao Wang: Survey on user location prediction based on geo-social networking data. **World Wide Web** 23(3): 1621-1664 (2020)
- Xiaofei Wang, Chenyang Wang, Xu Chen, Xiaoming Fu, Jinyoung Han, Xin Wang: Measurement and analysis on large-scale offline mobile app dissemination over device-to-device sharing in mobile social networks. **World Wide Web** 23(4): 2363-2389 (2020)

- 2019 Enhuan Dong, Mingwei Xu, Xiaoming Fu, Yu Cao: A loss aware MPTCP scheduler for highly lossy networks. **Computer Networks**, 157: 146-158 (2019)
- Song Yang, Fan Li, Meng Shen, Xu Chen, Xiaoming Fu, Yu Wang: Cloudlet Placement and Task Allocation in Mobile Edge Computing. **IEEE Internet of Things Journal**, 6(3): 5853-5863 (2019)
- Fei Zhang, Guangming Liu, Bo Zhao, Piotr Kasprzak, Xiaoming Fu, Ramin Yahyapour: CBase: Fast Virtual Machine storage data migration with a new data center structure. **Journal of Parallel and Distributed Computing**, 124: 14-26 (2019)
- Kun Qiu, Jing Yuan, Jin Zhao, Xin Wang, Stefano Secci, Xiaoming Fu: FastRule: Efficient Flow Entry Updates for TCAM-Based OpenFlow Switches. **IEEE Journal on Selected Areas in Communications**, 37(3): 484-498 (2019)
- Kun Qiu, Jin Zhao, Xin Wang, Xiaoming Fu, Stefano Secci: Efficient Recovery Path Computation for Fast Reroute in Large-Scale Software-Defined Networks. **IEEE Journal on Selected Areas in Communications**, 37(8): 1755-1768 (2019)
- Fei Zhang, Guangming Liu, Bo Zhao, Xiaoming Fu, Ramin Yahyapour: Reducing the network overhead of user mobility-induced virtual machine migration in mobile edge computing. **Software: Practice and Experience**, 49(4): 673-693 (2019)
- Lingjun Pu, Xu Chen, Jingdong Xu, Xiaoming Fu: Content Retrieval at the Edge: A Social-Aware and Named Data Cooperative Framework. **IEEE Transactions on Emerging Topics in Computing**, 7(1): 135-148 (2019)
- Osamah L. Barakat, David Koll, Xiaoming Fu: Gavel: A Fast and Easy-to-Use Plain Data Representation for Software-Defined Networks. **IEEE Transactions on Network and Service Management**, 16(2): 606-617 (2019)

Part 3: referred conference papers in the past 5 years

- 2024 Lin Sun, Weijun Wang, Tingting Yuan, Liang Mi, Haipeng Dai, Yunxin Liu and Xiaoming Fu: BiSwift: Bandwidth Orchestrator for Multi-Stream Video Analytics on Edge. **IEEE INFOCOM 2024** (May 2024, Vancouver, Canada)
- Xiaofei Yue, Song Yang, Liehuang Zhu, Stojan Trajanovski, Xiaoming Fu: Demeter: Fine-grained Function Orchestration for Geo-distributed Serverless Analytics. **IEEE INFOCOM 2024** (May 2024, Vancouver, Canada)
- 2023 Tingting Yuan, Hwei-Ming Chung, Jie Yuan, Xiaoming Fu: DACOM: Learning Delay-Aware Communication for Multi-Agent Reinforcement Learning. Proceedings of the AAAI Conference on Artificial Intelligence (**AAAI 2023**): 11763-11771 (Feb 2023, Washington, USA)
- Shuai Xu, Jianqiu Xu, Bohan Li, Xiaoming Fu: Predicting Where You Visit in a Surrounding City: A Mobility Knowledge Transfer Framework Based on Cross-City Travelers. International Conference on Database Systems for Advanced Applications (**DASFAA 2023**): 334-350 (Apr 2023, Tianjin, China)
- Biao Hou, Song Yang, Fernando A. Kuipers, Lei Jiao, Xiaoming Fu: EAVS: Edge-assisted Adaptive Video Streaming with Fine-grained Serverless Pipelines. **IEEE INFOCOM 2023** (May 2023, New York, USA)
- Tingting Yuan, Liang Mi, Weijun Wang, Haipeng Dai, Xiaoming Fu: AccDecoder: Accelerated Decoding for Neural-enhanced Video Analytics. **IEEE INFOCOM 2023** (May 2023, New York, USA)
- Zhengze Li, Yanlong Huang, Xiaoming Fu: EVA: A Distributed Optimization Architecture for Efficient Video Analytics for Smart Cities. Proceedings of the 18th Workshop on Mobility in the Evolving Internet Architecture (**MobiArch 2023**)@MobiCom: 7-12 (Oct 2023, Madrid, Spain)
- Jia Zhang, Yixuan Zhang, Enhuan Dong, Yan Zhang, Shaorui Ren, Zili Meng, Mingwei Xu, Xiaotian Li, Zongzhi Hou, Zhicheng Yang, Xiaoming Fu: Bridging the Gap between QoE and QoS in Congestion Control: A Large-scale Mobile Web Service Perspective. **USENIX Annual Technical Conference 2023**: 553-569 (July 2023, Boston, USA)

- 2022 Hui Chen, Zhengze Li, Yan Zhou, Xiaoming Fu: On International Chinese Education Index Ranking in a Global Perspective. The 33rd Australasian Database Conference (**ADC 2022**): 3-20 (August 2022, Sydney, Australia)
- Aoran Li, Jiajun Wu, Shuai Xu, Yalei Zang, Yi Liu, Jiayi Lu, Yanchao Zhao, Gaoxu Wang, Qing Meng, Xiaoming Fu: Graph-Based Sequential Interpolation Recommender for Cold-Start Users. Asia-Pacific Web and Web-Age Information Management Joint International Conference on Web and Big Data (**APWeb-WAIM 2022**), (3) 2022: 57-71 (**Best student paper award**, Aug 2022, Nanjing, China)
- Xiaoming Fu, Tingting Yuan, Weijun Wang, Fabian Wölk, Günter Strunz: Towards Exploiting Stakeholder Resources for Data-Driven Resilient Hazard Management. 2022 IEEE 42nd International Conference on Distributed Computing Systems Workshops (**ICDCSW 2022**): 254-259 (Nov 2022, Bologna, Italy)
- Yali Yuan, Weijun Wang, Yuhan Wang, Sripriya Srikant Adhatarao, Bangbang Ren, Kai Zheng, Xiaoming Fu: VSiM: Improving QoE Fairness for Video Streaming in Mobile Environments. IEEE INFOCOM 2022: 1309-1318 (May 2022, Virtual Conference)
- 2021 Jiaying Kou, Jiahua Du, Xiaoming Fu, Geordie Z. Zhang, Hua Wang, Yanchun Zhang: The Effect of Regional Economic Clusters on Housing Price. Databases Theory and Applications: 32nd Australasian Database Conference (**ADC 2021**): 180-191 (Jan 2021, Dunedin, New Zealand)
- Jiaquan Zhang, Xin Gao, Hui Chen, Lei Chen, Liang Wang, Jar-Der Luo, Xiaoming Fu: A Data-Driven Analysis of K-12 Students' Participation and Learning Performance on an Online Supplementary Learning Platform. 2021 International Conference on Computer Communications and Networks (**ICCCN 2021**). 2021: 1-9 (July 2021, Athens, Greece)
- Bangbang Ren, Deke Guo, Guoming Tang, Weijun Wang, Lailong Luo, Xiaoming Fu: SRUF: Low-Latency Path Routing with SRv6 Underlay Federation in Wide Area Network. 2021 IEEE 41st International Conference on Distributed Computing Systems (**ICDCS 2021**), 2021: 910-920 (July 2021, Virtual Conference)
- Hong Huang, Ruize Shi, Wei Zhou, Xiao Wang, Hai Jin, Xiaoming Fu: Temporal Heterogeneous Information Network Embedding. 30th International Joint Conference on Artificial Intelligence (**IJCAI 2021**): 1470-1476 (Aug 2021, Virtual Conference)
- Nan He, Song Yang, Fan Li, Stojan Trajanovski, Fernando A. Kuipers, Xiaoming Fu: A-DDPG: Attention Mechanism-based Deep Reinforcement Learning for NFV. 2021 IEEE/ACM 29th International Symposium on Quality of Service (**IWQoS 2021**): 1-10 (June 2021, Virtual Conference)
- Fabian Wölk, Tingting Yuan, Krisztina Kis-Katos, Xiaoming Fu: Measuring Consumption Changes in Rural Villages based on Satellite Image Data - A Case Study for Thailand and Vietnam. 2021 IEEE 17th International Conference on Mobility, Sensing and Networking (**MSN 2021**), 2021: 600-607 (Dec 2021, Exeter, UK)
- 2020 Yachao Shao, Tao Zhao, Xiaoning Wang, Xiaofeng Zou, Xiaoming Fu: Multiple Balance Subsets Stacking for Imbalanced Healthcare Datasets. 2020 IEEE 26th International Conference on Parallel and Distributed Systems (**ICPADS 2020**): 300-307 (Feb 2021, Hong Kong, China)
- Zhenhua Han, Haisheng Tan, Shaofeng H.-C. Jiang, Xiaoming Fu, Wanli Cao, Francis C. M. Lau: Scheduling Placement-Sensitive BSP Jobs with Inaccurate Execution Time Estimation. IEEE **INFOCOM 2020**: 1053-1062 (July 2020, Virtual Conference)
- Yali Yuan, Sripriya Srikant Adhatarao, Mingkai Lin, Yachao Yuan, Zheli Liu, Xiaoming Fu: ADA: Adaptive Deep Log Anomaly Detector. IEEE **INFOCOM 2020**: 2449-2458 (July 2020, Virtual Conference)
- Sripriya Srikant Adhatarao, Haitao Wang, Mayutan Arumathurai, Xiaoming Fu: COPSS-lite: A Lightweight ICN based Pub/Sub System for IoT Environments. 2020 16th IEEE International Conference on Mobility, Sensing and Networking (**MSN 2020**): 121-128 (Dec 2020, Tokyo, Japan)

- 2019 Abhinandan S. Prasad, Mayutan Arumathurai, David Koll, Xiaoming Fu: DMC: A Differential Marketplace for Cloud Resources. 2019 19th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (**CCGRID 2019**): 198-209 (May 2019, Larnaca, Cyprus) (**best paper runner-up**)
- Shichang Ding, Hong Huang, Tao Zhao, Xiaoming Fu: Estimating Socioeconomic Status via Temporal-Spatial Mobility Analysis - A Case Study of Smart Card Data. 2019 IEEE 28th international conference on computer communication and networks (**ICCCN 2019**): 1-9 (Aug 2019, Valencia, Spain)
- Bo Zhao, Atsuhiko Takasu, Ramin Yahyapour, Xiaoming Fu: Loyal Consumers or One-Time Deal Hunters: Repeat Buyer Prediction for E-Commerce. 2019 IEEE International Conference on Data Mining Workshops (**ICDMW 2019**): 1080-1087 (Nov 2019, Beijing China)
- Osamah L. Barakat, Pier Luigi Ventre, Stefano Salsano, Xiaoming Fu: Busoni: Policy Composition and Northbound Interface for IPv6 Segment Routing Networks. 2019 IEEE 27th International Conference on Network Protocols (**ICNP 2019**), Chicago, USA, Oct 2019.
- Jianhua He, Andrew Radford, Laura Li, Zhiliang Xiong, Zuoyin Tang, Xiaoming Fu, Supeng Leng, Fan Wu, Kaisheng Huang, Jianye Huang, Jie Zhang, Yan Zhang: Cooperative Connected Autonomous Vehicles (CAV): Research, Applications and Challenges. Proceedings of IEEE 27th International Conference on Network Protocols (**ICNP 2019**), Chicago, USA, Oct 2019
- Abhinandan S. Prasad, Mayutan Arumathurai, David Koll, Yuming Jiang, Xiaoming Fu: OFM: An Online Fisher Market for Cloud Computing. Proceedings of IEEE **INFOCOM 2019**: 2575-2583, Paris, France, Apr 2019

Part 4: Publications in all years

NOTE: *Italic* means the first author is/was my (co-)supervised graduate student, postdoc or visiting scholar.

Articles Articles in peer-reviewed journals

- 2024 Lihao Wang*, *Weijun Wang**, Haipeng Dai, Quyu Ben, J. Zheng, Rong Gu, Guihai Chen, Xiaoming Fu. Joint Deployment of Truck-drone Systems for Camera-based Object Monitoring, **IEEE Transactions on Mobile Computing** (accepted), Feb 2024.
- Ke Xiao, Song Yang, Fan Li, Liehuang Zhu, Xu Chen, Xiaoming Fu. Making Serverless Not So Cold in Edge Clouds: A Cost-Effective Online Approach, **IEEE Transactions on Mobile Computing**, DOI: 10.1109/TMC.2024.3355118 (early access)
- *Tingting Yuan*, Hwei-Ming Chung, Xiaoming Fu. PP-MARL: Efficient Privacy-Preserving Multi-agent Reinforcement Learning for Cooperative Intelligence in Communications, **IEEE Network**, DOI: 10.1109/MNET.2023.3330877 (early access)
- *Shuai Xu*, Xiaoming Fu, Dechang Pi, Zhuo Ma, Inferring Individual Human Mobility from Sparse Check-in Data: A Temporal-Context-Aware Approach, **IEEE Transactions on Computational Social Systems**, 11(1): 600-617, Feb 2024. DOI: 10.1109/TCSS.2022.3231601
- 2023 *Xin Gao*, Jarder Luo, Hui Chen, Yuanyi Zhen, Jiaquan Zhang, Xiaoming Fu, Alleviating educational inequality in math with the aid of online shadow education – the impact of equal access and equal quality mechanisms, **Education and Information Technologies**, Oct 2023, DOI: 10.1007/s10639-023-12214-5
- *Shichang Ding*, Xiangyang Luo, Jinwei Wang, and Xiaoming Fu: GNN-Geo: A Graph Neural Network-Based Fine-Grained IP Geolocation Framework. **IEEE Trans. Netw. Sci. Eng.** 10.6 (2023), pp. 3543–3560. DOI: 10.1109/TNSE.2023.3266752
- *Enhuan Dong*, Peng Gao, Yuan Yang, Mingwei Xu, Xiaoming Fu, and Jiahai Yang: SmartSBD: Smart shared bottleneck detection for efficient multipath congestion control over heterogeneous networks. **Comput. Networks** 237 (2023), p. 110047. DOI: 10.1016/J.COMNET.2023.110047

- Yanan Gao, Song Yang, Fan Li, Stojan Trajanovski, Pan Zhou, Pan Hui, and Xiaoming Fu: Video Content Placement at the Network Edge: Centralized and Distributed Algorithms. **IEEE Trans. Mob. Comput.** 22.11 (2023), pp. 6843–6859. DOI: 10.1109/TMC.2022.3200401
- Nan He, Song Yang, Fan Li, Stojan Trajanovski, Liehuang Zhu, Yu Wang, and Xiaoming Fu: Leveraging Deep Reinforcement Learning With Attention Mechanism for Virtual Network Function Placement and Routing. **IEEE Trans. Parallel Distributed Syst.** 34.4 (2023), pp. 1186–1201. DOI: 10.1109/TPDS.2023.3240404
- Fabian Wölk, Tingting Yuan, Krisztina Kis-Katos, and Xiaoming Fu: A temporal-spatial analysis on the socioeconomic development of rural villages in Thailand and Vietnam based on satellite image data. **Comput. Commun.** 203 (2023), pp. 146–162. DOI: 10.1016/J.COMCOM.2023.02.017
- Song Yang, Fan Li, Zhi Zhou, Xu Chen, Yu Wang, and Xiaoming Fu: Online Control of Service Function Chainings Across Geo-Distributed Datacenters. **IEEE Trans. Mob. Comput.** 22.6 (2023), pp. 3558–3571. DOI: 10.1109/TMC.2021.3135535
- 2022 Yanan Gao, Song Yang, Fan Li, and Xiaoming Fu: Adaptive and Efficient Qubit Allocation Using Reinforcement Learning in Quantum Networks. **IEEE Netw.** 36.5 (2022), pp. 48–54. DOI: 10.1109/MNET.001.2200157
- Deke Guo, Bangbang Ren, Guoming Tang, Lailong Luo, Tao Chen, and Xiaoming Fu: Optimal Embedding of Aggregated Service Function Tree. **IEEE Trans. Parallel Distributed Syst.** 33.10 (2022), pp. 2584–2596. DOI: 10.1109/TPDS.2022.3147870
- Bangbang Ren, Deke Guo, Yali Yuan, Guoming Tang, Weijun Wang, and Xiaoming Fu: Optimal Deployment of SRv6 to Enable Network Interconnection Service. **IEEE/ACM Trans. Netw.** 30.1 (2022), pp. 120–133. DOI: 10.1109/TNET.2021.3105959
- Weijun Wang, Haipeng Dai, Chao Dong, Fu Xiao, Jiaqi Zheng, Xiao Cheng, Guihai Chen, and Xiaoming Fu: Deployment of Unmanned Aerial Vehicles for Anisotropic Monitoring Tasks. **IEEE Trans. Mob. Comput.** 21.2 (2022), pp. 495–513. DOI: 10.1109/TMC.2020.3012791
- Song Yang, Fan Li, Ramin Yahyapour, and Xiaoming Fu: Delay-Sensitive and Availability-Aware Virtual Network Function Scheduling for NFV. **IEEE Trans. Serv. Comput.** 15.1 (2022), pp. 188–201. DOI: 10.1109/TSC.2019.2927339
- Song Yang, Jintian Liu, Fei Zhang, Fan Li, Xu Chen, and Xiaoming Fu: Caching-Enabled Computation Offloading in Multi-Region MEC Network via Deep Reinforcement Learning. **IEEE Internet Things J.** 9.21 (2022), pp. 21086–21098. DOI: 10.1109/IIOT.2022.3176289
- Yali Yuan, Chencheng Liang, Xu Chen, Thar Baker, and Xiaoming Fu: Adaptive Fuzzy Game-Based Energy-Efficient Localization in 3D Underwater Sensor Networks. **ACM Trans. Internet Techn.** 22.2 (2022), pp. 29:1–29:20. DOI: 10.1145/3406533
- Jiaquan Zhang, Hui Chen, Xiaoming Yao, and Xiaoming Fu: CPFinder: Finding an unknown caller’s profession from anonymized mobile phone data. **Digit. Commun. Networks** 8.3 (2022), pp. 324–332. DOI: 10.1016/J.DCAN.2021.08.003
- Tao Zhao, Lu Tang, Jinfeng Huang, and Xiaoming Fu: Coupled social media content representation for predicting individual socioeconomic status. **Expert Syst. Appl.** 198 (2022), p. 116744. DOI: 10.1016/J.ESWA.2022.116744
- 2021 Shichang Ding, Xin Gao, Yufan Dong, Yiwei Tong, and Xiaoming Fu: Estimating Multiple Socioeconomic Attributes via Home Location - A Case Study in China. **J. Soc. Comput.** 2.1 (2021), pp. 71–88. DOI: 10.23919/JSC.2021.0003
- Qingyuan Gong, Yang Chen, Xinlei He, Yu Xiao, Pan Hui, Xin Wang, and Xiaoming Fu: Cross-site Prediction on Social Influence for Coldstart Users in Online Social Networks. **ACM Trans. Web** 15.2 (2021), pp. 6:1–6:23. DOI: 10.1145/3409108
- Zhenhua Han, Haisheng Tan, Shaofeng H.-C. Jiang, Wanli Cao, Xiaoming Fu, Lan Zhang, and Francis C. M. Lau: SPBSP Job Scheduling With Placement-Sensitive Execution. **IEEE/ACM Trans. Netw.** 29.5 (2021), pp. 2267–2280. DOI: 10.1109/TNET.2021.3087221

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