

Gongpu CHEN




✉ gpchen@link.cuhk.edu.hk
☎ +852 59894859
📍 Shatin, NT, Hong Kong, China










Research Interests

Wireless communications and networking, Cyber-physical systems, Markov decision process, Reinforcement learning, Multi-armed bandits








Education

- 08/2019 – 07/2023  **The Chinese University of Hong Kong**, Hong Kong, China.
Ph.D. in information engineering.
- 09/2016 – 06/2019  **Southeast University**, Nanjing, China.
Master in Control Science and Engineering.
- 09/2012 – 06/2016  **University of Electronic Science and Technology of China**, Chengdu, China.
Bachelor in Automation Engineering.

Publications and Preprints


- [1] **G. Chen** and S. C. Liew, “An index policy for minimizing the uncertainty-of-information of markov sources,” *IEEE Transactions on Information Theory*, accepted.  DOI: arXiv:2212.02752.
- [2] **G. Chen** and S. C. Liew, “Intermittently observable markov decision processes,” *arXiv:2302.11761*, (Submitted to The Journal of Machine Learning Research).
- [3] **G. Chen**, L. Zhang, and S. C. Liew, “Periodic transmissions in random access networks: Stressed period and delay,” *IEEE Transactions on Communications*, vol. 71, no. 7, pp. 4119–4132, 2023.  DOI: 10.1109/TCOMM.2023.3273419.
- [4] **G. Chen**, S. C. Liew, and Y. Shao, “Uncertainty-of-information scheduling: A restless multi-armed bandit framework,” *IEEE Transactions on Information Theory*, vol. 68, no. 9, pp. 6151–6173, 2022.  DOI: 10.1109/TIT.2022.3177891.
- [5] **G. Chen**, X. Cao, and J. Jin, “Joint scheduling and channel allocation for kalman filtering over multihop wireless networks,” *IEEE Transactions on Industrial Informatics*, vol. 17, no. 5, pp. 3555–3565, 2021.  DOI: 10.1109/TII.2020.2984491.
- [6] **G. Chen**, X. Cao, L. Liu, C. Sun, and Y. Cheng, “Joint scheduling and channel allocation for end-to-end delay minimization in industrial wireless networks,” *IEEE Internet of Things Journal*, vol. 6, no. 2, pp. 2829–2842, 2019.  DOI: 10.1109/JIOT.2018.2875508.
- [7] M. Lei, X. Cao, **G. Chen**, and C. Sun, “A consensus-state-aware adaptive algorithm for tuning csma parameters in multi-agent networks,” in *2019 IEEE 28th International Symposium on Industrial Electronics (ISIE)*, 2019, pp. 1769–1774.  DOI: 10.1109/ISIE.2019.8781184.
- [8] **G. Chen**, R. Ma, M. Lei, and X. Cao, “Channel list selection based on quality prediction in wireless networks,” *Journal of Communications and Information Networks*, vol. 3, no. 3, pp. 49–56, 2018.  DOI: 10.1007/s41650-018-0030-5.

Honors and Awards




- 03/2022  Exemplary Reviewer, IEEE Wireless Communications Letters.
- 09/2020  Excellent Master's Degree Thesis Award, Southeast University.
- 08/2019  Postgraduate Studentship, The Chinese University of Hong Kong
- 06/2019  Outstanding graduate of Southeast University
- 10/2016  Graduate scholarship, first prize, Southeast University.
- 08/2015  The 10th National College Students 'Freescall Cup' Intelligent Car Competition, provincial first prize.
- 08/2014  Sichuan College Students Electronic Design Competition, first prize.

Services




Organisation of International Conferences

- 12/2020  **Session Chair**, Session A1: Learning Algorithm, IEEE International Conference on Parallel and Distributed Systems (IEEE ICPADS 2020).






Journal Review

-  IEEE Transactions on Wireless Communications.
-  IEEE Wireless Communications Letters.
-  IEEE/CAA Journal of Automatica Sinica.



Conference Review



-  IEEE Vehicular Technology Conference (VTC).
-  IEEE International Conference on Parallel and Distributed Systems (ICPADS).
-  IEEE/CIC International Conference on Communications in China (ICCC).

Teaching Assistant

- IERG 2470  **Probability Models and Applications**, Spring 2022.
- IERG 2080  **Introduction to Systems Programming**, Fall 2021.
- IERG 2470  **Probability Models and Applications**, Spring 2021.
- IERG 3010  **Digital Communications**, Fall 2020.
- ENGG 2470  **Probability for Engineers**, Spring 2020.

Referees

Prof. Soung Chang Liew Professor The Chinese University of Hong Kong
 Shatin, NT, Hong Kong
 soung@ie.cuhk.edu.hk

Prof. Xianghui Cao Professor Southeast University
 Sipailou, Nanjing, Jiangsu, China
 xhcao@seu.edu.cn