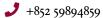
# **Gongpu CHEN**

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#### **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.
	<b>Bachelor</b> 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. ODI: 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. **9** 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. ODI: 10.1109/TIT.2022.3177891.
- [5] **G. Chen**, X. Cao, and J. Jin, "Joint scheduling and channel allocation for kalman filtering over multihop wirelesshart 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 wirelesshart networks," *IEEE Internet of Things Journal*, vol. 6, no. 2, pp. 2829–2842, 2019. ODI: 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. ODI: 10.1109/ISIE.2019.8781184.
- [8] **G. Chen**, R. Ma, M. Lei, and X. Cao, "Channel list selection based on quality prediction in wirelesshart networks," *Journal of Communications and Information Networks*, vol. 3, no. 3, pp. 49–56, 2018. ODI: 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

10/2016 Graduate scholarship, first prize, Southeast University.

08/2015 The 10th National College Students 'Freescale 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

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