

➤ Name, affiliation and contact information

Liang Zhou

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➤ The position that you are interested in

MMTC Chair

➤ Your brief bio and a link to your CV or homepage

I am a professor and vice president at Nanjing University of Posts and Telecommunications in China, and I also serve as the vice chair for IEEE MMTC. I obtained my Ph.D. degree in Electronic Engineering from both École Normale Supérieure (E.N.S.), Cachan, France, and Shanghai Jiao Tong University, Shanghai, China, in March 2009. Between 2009 and 2010, I worked as a postdoctoral researcher at ENSTA-ParisTech, France and MIT, USA. From 2010 to 2011, I was a Humboldt Research Fellow at the Technical University of Munich, Germany. From 2011 to now, I am a professor in Nanjing University of Posts and Telecommunications, China. My research primarily concentrates on Multimedia Communications and Networking. My CV is attached.

➤ Your past involvement and contribution to the MMTC community

Reflecting on my journey with the MMTC community, I take pride in the array of roles I have embraced, which have substantially aided in the flourishing growth and evolution of our dynamic community. My association with the MMTC community commenced in 2010 as the

Secretary, a role that entrusted me with the careful stewardship of our membership platform. This initial position was instrumental in gaining a deep understanding of the essential needs of our members, thus setting a solid foundation for the contributions I was to make in the future.

Advancing to the year 2012, I was promoted to the esteemed role of Vice Chair of MMTC, concentrating on the Asian region and our membership base. Throughout my term from 2012 to 2014, I dedicated myself to broadening the community's influence and cultivating a more diverse and welcoming atmosphere.

Between 2018 and 2020, I embraced the pivotal role of Standards Liaison of MMTC, acting as a vital link between the academic sphere and the industry sector. In this role, I ensured that our standards were not only cutting-edge but also resonated with the practical needs of the industry.

As I continued to rise within the ranks of the community, I was reappointed as Vice Chair of MMTC for the term spanning 2020 to 2022. During this period, my duties expanded to include the supervision of the Asian region and the orchestration of our conferences, where I had a significant impact on the strategic direction and the triumphant execution of our gatherings. Concluding my progression in leadership, I served another term as Vice Chair from 2022 to 2024, further solidifying my dedication to the MMTC community and its ongoing expansion and advancement.

Through the various positions I have held, I have been privileged to make a meaningful contribution to the advancement of the MMTC community, and I eagerly anticipate the prospect of many more years of dedicated service.



# Liang ZHOU

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Vice President

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## ● Background

- ✧ **Nanjing Uni. of Post and Telecomm., China** 09.2011-Now  
Professor
- ✧ **Technischen Universität München, Germany** 04.2010-09.2011  
Humboldt Research Fellow
- ✧ **ENSTA-ParisTech, France** 03.2009-04.2010  
**MIT, USA**  
Postdoctoral Researcher
- ✧ **École Normale Supérieure, Cachan, France** 03.2006-03.2009
- ✧ **Shanghai Jiao Tong University, China**  
Ph.D. in Electrical Engineering
- ✧ **Nanjing University of Posts & Telecom., China** 09.2003-03.2006  
M.S. in Signal Processing
- ✧ **Nanjing University of Posts & Telecom. , China** 09.1999-07.2003  
B.S. in Electrical Engineering

## ● Research Interests

- ✧ Multimedia Communications and Networking
- ✧ Multi-modal computing and service

## ● Honors and Awards

- ✧ 2024: Member of European Academy of Sciences and Arts
- ✧ 2023: IET Fellow
- ✧ 2023: British Computer Society Fellow
- ✧ 2024: IEEE Transactions on Multimedia Best Paper Award
- ✧ 2022: IEEE ComSoc Multimedia Communications Best Journal Paper Award
- ✧ 2020: Changjiang Scholar Distinguished Professor, Ministry of Education, China
- ✧ 2018: IEEE ComSoc Multimedia Communications Best Journal Paper Award
- ✧ 2015: Best Editor Award for IEEE Trans. Circuits and Systems for Video Tech.
- ✧ 2012: IEEE ICC Best Paper Award
- ✧ 2015: ACM Mobimedia Best Paper Award
- ✧ 2013: IEEE ComSoc Communications Software Best Paper Award
- ✧ 2013: IEEE Healthcom Best Paper Award

## ● Selected Publications

**Full Publications:** <https://dblp.uni-trier.de/pid/81/4761-2.html>

1. L. Zhou, D. Wu, X. Wei and Z. Dong, "Seeing Isn't Believing: QoE Evaluation for Privacy-Aware Users," *IEEE Journal on Selected Areas in Communications*, vol. 37, no. 7, pp. 1656-1665, July 2019.

2. L. Zhou, D. Wu, X. Wei and J. Chen, "Cross-Modal Stream Scheduling for eHealth," *IEEE Journal on Selected Areas in Communications*, vol. 39, no. 2, pp. 426-437, Feb. 2021.
3. L. Zhou, Z. Yang, H. Wang, and M. Guizani, "Impact of Execution Time on Adaptive Wireless Video Scheduling," *IEEE Journal on Selected Areas in Communications*, vol. 32, no. 4, pp. 760-772, Apr. 2014.
4. L. Zhou, X. Wang, W. Tu, G. Mutean, and B. Geller, "Distributed Scheduling Scheme for Video Streaming over Multi-Channel Multi-Radio Multi-Hop Wireless Networks," *IEEE Journal on Selected Areas in Communications*, vol. 28, no. 3, pp. 409-419, Apr. 2010.
5. L. Zhou, R. Hu, Y. Qian, and H.-H. Chen, "Energy-Spectrum Efficiency Tradeoff for Video Streaming over Mobile Ad Hoc Networks," *IEEE Journal on Selected Areas in Communications*, vol. 31, no. 5, pp. 981-991, May 2013.
6. L. Zhou, H.-C. Chao, "Joint Forensics-Scheduling Strategy for Delay-Sensitive Multimedia Applications over Heterogeneous Networks," *IEEE Journal on Selected Areas in Communications*, vol. 29, no. 7, pp. 1358-1367, Aug. 2011.
7. L. Zhou, D. Wu, J. Chen and X. Wei, "Cross-Modal Collaborative Communications," *IEEE Wireless Communications*, vol. 27, no. 2, pp. 112-117, Apr. 2020.
8. L. Zhou, M. Chen, Y. Qian, and H.-H. Chen, "Fairness Resource Allocation in Blind Wireless Multimedia Communications," *IEEE Transactions on Multimedia*, vol. 15, no. 4, pp. 946-956, June 2013.
9. L. Zhou, H. Wang, and M. Guizani, "How Mobility Impacts Video Streaming over Multi-Hop Wireless Networks?," *IEEE Transactions on Communications*, vol. 60, no. 7, pp. 2017-2028, July 2012.
10. L. Zhou, Z. Yang, Y. Wen, J. Rodrigues, "Distributed Wireless Video Scheduling with Delayed Control Information," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 24, no. 5, pp. 889-901, 2014.
11. L. Zhou, Y. Wen, H. Wang, and M. Guizani, "Resource Allocation with Incomplete Information for QoE-driven Multimedia Communications," *IEEE Transactions on Wireless Communications*, vol. 12, no. 8, pp. 3733-3745, 2013.
12. L. Zhou, H.-H. Chen, "On Multimedia Scheduling with Constrained Control Channels," *IEEE Transactions on Multimedia*, vol. 13, no. 5, pp. 1040-1051, Oct. 2011.
13. L. Zhou, Y. Zhang, K. Song, W. Jing, "Distributed Media-Service Scheme for P2P-based Vehicular Networks," *IEEE Transactions on Vehicular Technology*, vol. 60, no. 2, pp. 692-703, February 2011.
14. L. Zhou, H. Wang, S. Lian, Y. Zhang, W. Jing, "Availability-Aware Multimedia Scheduling in Heterogeneous Wireless Networks," *IEEE Transactions on Vehicular Technology*, vol. 60, no. 3, pp. 1161-1170, March 2011.
15. L. Zhou, D. Wu, J. Chen, and Z. Dong, "When Computation Hugs Intelligence: Content-Aware Data Processing for Industrial IoT", *IEEE Internet of Things Journal*, vol. 5, no. 3, pp. 1657-1666, Jun. 2018.
16. L. Zhou, D. Wu, J. Chen, and Z. Dong, "Greening the Smart Cities: Energy-Efficient Massive Content Delivery via D2D Communications", *IEEE Transactions on Industrial Informatics*, vol. 14, no. 4, pp. 1626-1634, Apr. 2018.
17. L. Zhou, Z. Yang, J. Rodrigues, and M. Guizani, "Exploring Blind Online Scheduling for Mobile Cloud Multimedia Services," *IEEE Wireless Communications*, vol. 20, no. 3, pp. 54-61, June 2013.
18. L. Zhou, H. Wang, "Toward Blind Scheduling in Mobile Media Cloud: Fairness, Simplicity, and Asymptotic Optimality," *IEEE Transactions on Multimedia*, vol. 15, no. 4, pp. 735-746, June 2013.
19. L. Zhou, "Mobile Device-to-Device Video Distribution: Theory and Application," *ACM Transactions on Multimedia Computing, Communications and Applications*, vol. 12, no.3, pp. 1253-1271, 2015.
20. L. Zhou, J. Rodrigues, and L. Oliveira, "QoE-Driven Power Scheduling in Smart Grid: Architecture, Strategy, and Methodology," *IEEE Communications Magazine*, vol. 50, no. 5, pp. 136-141, May 2012.
21. L. Zhou, "QoE-Driven Delay Announcement for Cloud Mobile Media," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 27, no.1, pp. 84-94, 2017.
22. L. Zhou, "On Data-Driven Delay Estimation for Media Cloud," *IEEE Transactions on Multimedia*, vol. 18, no.5, pp. 905-915, 2016.
23. L. Zhou, "Specific- Versus Diverse-Computing in Media Cloud," *IEEE Transactions on Circuits*

- and Systems for Video Technology*, vol. 25, no. 12, pp. 1888-1899, Dec. 2015.
24. L. Zhou and J. Rodrigues, "Service-oriented Middleware for Smart Grid: Principle, Infrastructure, and Application," *IEEE Communications Magazine*, vol. 51, no. 1, pp. 84-89, Jan. 2013.
  25. L. Zhou, H.-C. Chao, "Multimedia Traffic Security Architecture for Internet of Things", *IEEE Network*, vol. 25, no. 3, pp. 35-40, May/June 2011.
  26. L. Zhou, N. Xiong, "Context-Aware Middleware for Multimedia Service in Heterogeneous Networks," *IEEE Intelligent Systems*, vol. 25, no. 2, pp. 40-47, Mar./Apr. 2010
  27. L. Zhou and B. Zheng, "Joint Physical-Application Security for Wireless Multimedia Transmission," *IEEE Communications Magazine*, vol. 52, no. 3, pp. 66-72, 2014.

- **Professional Services**

- **Organizer**

1. Vice Chair: IEEE ComSoc Multimedia Communications Technical Committee (2022-2024)
2. Vice Chair: IEEE ComSoc Multimedia Communications Technical Committee (2020-2022)
3. Chair: Communication Theory and Signal Processing Technical Committee of China Institute of Communications

- ✧ **Editor**

4. IEEE Network (2018-now)
5. IEEE Wireless Communications (2018-now)
6. IEEE Internet of Things Journal (2020-now)
7. IEEE Transactions on Multimedia (2014-2018)
8. IEEE Transactions on Circuits and Systems for Video Technology (2013-2018)
9. IEEE Transactions on Cognitive Communications and Networking (2024-now)

- ✧ **Guest Editor**

1. IEEE Systems Journal Special Issue on Multimedia Communications Systems
2. EURASIP Journal of Wireless Communications and Networking (Hindawi) Special Issue on Multimedia Communications over Next Generation Wireless Networks
3. Multimedia Systems Journal (ACM/Springer) Special Issue on Wireless Multimedia Transmission Technology and Application