个人概况

许志平，2021 年 12 月博士毕业于厦门大学信息学院/健康医疗大数据研究院。现为集美大学海洋信息工程学院讲师、硕导，*IEEE Member*。已在 *IEEE Trans. Wirel. Commun.*、*IEEE Commun. Lett.*、*IEEE Wireless Commun. Lett*、*Sci. China Inf. Sci.*及其他 *SCI* 期刊上发表 12 篇（一作/通讯 9 篇）论文，授权 2 项发明专利。担任 *IEEE ISMICT 2022/2023 TPC Member, JCICE 2023/2024 TPC member* 及 *IEEE ICWCSP 2021 Session Chair*。目前主持一项市厅级项目、两项校级项目，参与多项国家自然科学基金及省基金。

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研究方向

5G/6G 物理层关键技术研究（信源信道联合编译码，信道编译码，编码调制技术，迭代接收机），语义通信，人工智能，目标检测，物联网

论文专利情况（已发表 SCI 期刊 12 篇，一作/通讯 9 篇，IEEE 期刊 6 篇）

◆ 期刊

[J1] **Z. Xu**, D. Song, J. Zheng, and L. Wang*, “Joint-decoding-complexity-oriented collaborative design for joint source-channel coding system based on double protograph-LDPC codes,” *Science China Information Sciences*, vol. 66, no. 8, p. 189301, 2023. (**SCI，中科院二区，CCF A**).

[J2] **Z. Xu**, Q. Chen, Y. Li, G. Cai*, L. Lin, J. Zheng, and Y. Sun, “Designing protograph LDPC codes for differential chaotic bit-interleaved coded modulation system for underwater acoustic communications,” *Journal of Marine Science and Engineering*, vol. 11, no. 5, p. 914, 2023. (**SCI，中科院二区**)

[J3] L. Lin, **Z. Xu***, and J. Zheng, “Predefined time active disturbance rejection for nonholonomic mobile robots,” *Mathematics*, vol. 11, no. 12, p. 2704, 2023. **(SCI，中科院三区)**

[J4] Q. Chen, **Z. Xu***, H. Wu, and G. Cai, “Analysis and optimization of a general linking matrix for JSCC scheme based on double LDPC codes,” *Entropy*, vol. 25, no. 2, p. 382, 2023. **(SCI，中科院三区)**

[J5] **Z. Xu**, L. Wang*, and G. Chen, “Joint coding/decoding optimization for DC-BICM system: Collaborative design,” *IEEE Communications Letters*, vol. 25, no. 8, pp. 2487–2491, 2021. **(SCI，中科院三区)**

[J6] **Z. Xu**, L. Wang*, and S. Hong, “Joint early stopping criterions for protograph LDPC codes-based JSCC system in images transmission,” *Entropy*, vol. 23, no. 11, p. 1392, 2021. **(SCI，中科院三区)**

[J7] **Z. Xu**, L. Wang*, S. Hong, and G. Chen, “Generalized joint shuffled scheduling decoding algorithm for the JSCC system based on protograph-LDPC codes,” *IEEE Access*, vol. 9, pp. 128 372–128 380, 2021. **(SCI，中科院三区)**

[J8] **Z. Xu**, L. Wang*, S. Hong, and G. Chen, “Design of code pair for protograph-LDPC codes-based JSCC system with joint shuffled scheduling decoding algorithm,” *IEEE Communications Letters*, vol. 25, no. 12, pp. 3770–3774, 2021. **(SCI，中科院三区)**

[J9] **Z. Xu**, L. Wang*, S. Hong, F. C. Lau, and C.-W. Sham, “Joint shuffled scheduling decoding algorithm for DP-LDPC codes-based JSCC systems,” *IEEE Wireless Communications Letters*, vol. 8, no. 6, pp. 1696–1699, 2019. **(SCI，中科院**

二区)

[J10] C. Chen, S. Liu*, Q. Chen, and **Z. Xu**, "Rate-compatible protograph LDPC codes for source coding in joint source—channel coded modulation systems," *Electronics*, vol. 12, no. 12, p. 2610, 2023. **(SCI，中科院三区)**

[J11] D. Song, L. Wang*, **Z. Xu**, and G. Chen, "Joint code rate compatible design of DP-LDPC code pairs for joint source channel coding over implant-to-external channel," *IEEE Transactions on Wireless Communications*, vol. 21, no. 7, pp. 5526–5540, 2022. (**SCI，中科院一区**)

[J12] D. Song, **Z. Xu**, S. Hong and L. Wang*, "Survey of transmission coding theory on physical layer for wireless body area network: Optimal design of low-density parity-check code," *Journal of Electronics & Information Technology*, vol. 45, pp. 1–10, 2022. (**SCI，中科院四区**)

[J13] L. Lin*, H. He, **Z. Xu**, D. Wu et al., "Realtime vehicle tracking method based on YOLOv5+ DeepSORT," *Computational Intelligence and Neuroscience*, vol. 2023, 2023. (**EI**)

[J14] 洪少华, **许志平**, 刘三亚, 王琳*. 基于双原模图低密度奇偶校验码的联合信源信道编译码系统设计优化 [J]. 厦门大学学报(自然科学版), 60(3), pp. 586-597, 2021. (**CSCD**, 北大核心)

◆ 会议论文

[C1] **Z. Xu**, Z. Chen, L. Wu, P. Lin, and S. Cheng*, "A GA-SSO based intelligent channel assignment approach for MR-MC wireless sensors networks," in Multi-disciplinary Trends in Artificial Intelligence: 10th International Workshop, MIWAI 2016, Chiang Mai, Thailand, December 7-9, 2016, Proceedings 10. Springer International Publishing, 2016, pp. 304–311.

[C2] B. Lin, F. He, **Z. Xu**, L. Lin, and Y. Guo*, "License plate character recognition with lightweight convolutional neural networks," in 2023 IEEE 2nd International Conference on Electrical Engineering, Big Data and Algorithms (EEBDA). IEEE, 2023, pp. 1152–1157.

[C3] W. Chi, G. Cai*, **Z. Xu**, and Y. Song, "Robust UWB localization for indoor pedestrian tracking using EKF and adaptive power-driven parallel IMM," in Proceedings of the 2022 6th International Conference on Electronic Information Technology and Computer Engineering, 2022, pp. 1332–1337.

[C4] W. Lin, **Z. Xu**, S. Hong*, and L. Wang, "Multi-round joint belief propagation decoding with perturbation for JSCC system based on DP-LDPC codes," in 2021 International Conference on Computer, Information and Telecommunication Systems (CITS). IEEE, 2021, pp. 1–5.

◆ 专利

[P1] 面向水声通信的差分混沌比特交织编码系统短码设计方法（一作），专利号：ZL202310195799.3，授权日期：2023.6.16

[P2] 一种无线传感器网络多收发器多信道分配算法（三作），授权专利号：CN106358302B，授权日期：2019.12.31

[P3] 基于原模图 LDPC 码的联合信源信道编码系统的联合调度译码算法（一作），专利公开号： CN109981226A，公开日期：2019.4.16.

主持参与基金项目情况

[1] 福建省教育厅面上项目，No. JAT220182，2023.01-2025.12，**主持**。
[2] 集美大学科研启动基金，No. ZQ2022039，2022.10-2025.10，**主持**。
[3] 集美大学国家自然科学基金培育计划项目，No. XJ2022000201，2023.01-2025.12，**主持**。
[4] 国家自然科学基金面上项目，No. 61671395，2017.01 至 2020.12，参与。
[5] 福建省自然科学基金，No. 2020J01003，2020.11 至 2023.11，参与。
[6] 广东省自然科学基金，No. 2018A030313710，2018.05 至 2021.04，参与。
[7] 国家自然科学基金青年基金，No. 61601127，2017.1 至 2019.12，参与。
[8] 福建省教育厅面上项目，No. JAT220169，2023.01-2025.12，参与。