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华中科技大学 计算机系统结构 • 博士 1993-01-02 武汉

计算机系统结构专业博士，擅长磁存储及光存储系统建模与分析，热衷数据存储技术、信号处理与信息理论。

教育背景

至今	华中科技大学 • 武汉光电国家研究中心
2023.03	光学工程 • 博士后
2022.12	华中科技大学 • 武汉光电国家研究中心
2016.09	计算机系统结构 • 博士
2016.06	中南民族大学 • 电子信息工程学院
2012.09	电子信息工程 • 学士

科研项目

- 国家自然科学基金，面上项目，62272178, 超高密度三维热辅助磁记录写机制研究，2023/01 至 2026/12，在研，参与
- 国家自然科学基金，面上项目，61672246, 超高密度二维磁记录读磁头阵列及其记录系统关键技术研究，2017/01 至 2020/12，已结题，参与
- 国家自然科学基金，面上项目，61272068，比特图案介质的超高密度瓦记录关键技术研究，2013/01-2016/12，已结题，参与
- 企业横向，面向蓝光超多层 PRML 算法技术合作项目，2024/07 至 2025/01，在研，参与
- 企业横向，基于 BDXL 标准的 PRML 模型设计与实现合作项目，2022/08 至 2023/06，已结题，参与
- 企业横向，HDD 原型算法和先进磁记录技术合作项目，2022/03 至 2023/03，已结题，参与

科研成果

论文及专利

- ZHU C, SUN C, LIU Y, CHEN J, LUO K*. Enhancing Speech Emotion Recognition with Speech Dynamic Modeling and Multi-Modal Knowledge Distillation[C]//2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP). 2025.
- LIU Y, LUO K*, CHEN J. Multi-modal Image Reflection Removal with Prior Knowledge of Reflection Structure Inconsistency[C]//The 10th IEEE International Conference on Data Science and Systems (DSS 2024). 2024.
- LUO K, LIAO Y, ZHANG K, JIAN Y, WANG S, CHEN J*, LU P. On the impact of interlayer misalignment for dual-layer data detection in three dimensional magnetic recording[J/OL]. Journal of Magnetism and Magnetic Materials, 2024, 610: 172522. <https://www.sciencedirect.com/science/article/pii/S0304885324008138>. DOI: <https://doi.org/10.1016/j.jmmm.2024.172522>.
- LUO K, ZHANG K, WU F, LIAO Y, GAO H, LI W, JIAN Y, LIU Z, ZHAO Y, CHEN J*, LU P, WANG S. The Compatible Partial Response Maximum Likelihood Detection Schemes for Blu-Ray Discs[C]//The 21st International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology. Thailand, 2024: 1-5.
- LIAO Y, ZHANG K, JIAN Y, WANG S, CHEN J, LU P, LUO K*. Decision-Feedback Single-Layer Read Reconstruction and Separation for Three-dimensional Magnetic Recording[C]//2024 IEEE International Magnetism Conference (INTERMAG): AD-03. Rio de Janeiro, Brazil, 2024: 1-2.
- LUO K, WU Y, LIAO Y, WANG S, JIAN Y, CHEN J*, LU P. Quaternary Neural Network Equalization for Three-

- Dimensional Magnetic Recording[C]//2024 IEEE International Magnetism Conference (INTERMAG): AD-11. Rio de Janeiro, Brazil, 2024: 1-2.
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 - [13] WANG S, CHEN J*, **LUO K**, XIE G, LU P, CHENG W. Joint Four-Reader Array Equalization and Detection for a Single Track in TDMR[J]. IEEE Transactions on Magnetism, 2019, 55(12): 1-6. DOI: 10.1109/TMAG.2019.2936181.
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 - [20] WANG S, CHEN J*, **LUO K**, XIE G, LU P, CHENG W. Performance Evaluation of Four-Reader Array Detection for Two-Dimensional Magnetic Recording[J]. Science of Advanced Materials, 2019, 11(6): 835-841.
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 - [22] 陈进才, 罗可, 卢萍, 甘棕松, 王少兵, 陈玮, 刘鑫, 鲍锦星. 二维信道均衡模型训练方法及二维信道均衡方法: [P]. CN 110211611 B. 2019.