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

参考文献

[1] LUO K, ZHANG K, WU F, et al. The Compatible Partial Response Maximum LikelihoodDetection Schemes for Blu-Ray Discs[C]//The 21st International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology. Thailand, 2024: 1-5.

[2] LIAO Y, ZHANG K, JIAN Y, et al. Decision-Feedback Single-Layer Read Reconstruction and Separation for Three-dimensional Magnetic Recording[C]//2024 IEEE International Magnetics Conference (INTERMAG): AD-03. Rio de Janeiro, Brazil, 2024: 1-2.

[3] LUO K, WU Y, LIAO Y, et al. Quaternary Neural Network Equalization for Three-Dimentional Magnetic Recording[C]//2024 IEEE International Magnetics Conference (INTERMAG): AD-11. Rio de Janeiro, Brazil, 2024: 1-2.

[4] LUO K, JIAN Y, LIAO Y, et al. A Graded Precompensation Scheme by Pattern Classification on Nonlinear Transition Shift for Perpendicular Magnetic Recording[J]. IEEE Transactions on Magnetics, 2023: 1-1. DOI: 10.1109/TMAG.2023.3288371.

[5] JIAN Y, LUO K, LI W, et al. Pattern Constraints Limiting Nonlinear Transition Shift in High Density Magnetic Recording[J]. Journal of Magnetism and Magnetic Materials, 2023, 588: 171370. DOI: https://doi.org/10.1016/j.jmmm.2023.171370.

[6] CHEN W, CHEN J, GAN Z, et al. A Simple and Effective Semi-Circle Resonator System for Bit-Patterned HAMR[J]. Physics Letters A, 2021, 391: 127129. DOI: https://doi.org/10.1016/j.physleta.2020.127129.

[7] LUO K, WANG S, XIE G, et al. Read Channel Modeling and Neural Network Block Predictor for Two-

Dimensional Magnetic Recording[J]. IEEE Transactions on Magnetics, 2020, 56(1): 1-5. DOI: 10.1109/TMAG.2019.2950704.

[8] CHEN W, CHEN J, GAN Z, et al. High-Field Enhancement of Plasmonics Antenna Using Ring Resonator for HAMR[J]. IEEE Transactions on Magnetics, 2020, 56(7): 1-5. DOI: 10.1109/TMAG.2020.2990525.

[9] LUO K, WANG S, CHAN K S, et al. A Study on Block-Based Neural Network Equalization in TDMR System With LDPC Coding[J]. IEEE Transactions on Magnetics, 2019, 55(11): 1-5. DOI: 10.1109/TMAG.2019.2931760.

[10] WANG S, CHEN J, LUO K, et al. Joint Four-Reader Array Equalization and Detection for a Single Track in TDMR[J]. IEEE Transactions on Magnetics, 2019, 55(12): 1-6. DOI: 10.1109/TMAG.2019.2936181.

[11] XIE G, LUO K, WANG S, et al. Rounded Corner Effect on Write Performance for Shingled Magnetic Recording System[C]//2018 Asia-Pacific Magnetic Recording Conference (APMRC): S01-A01. USST, China, 2018: 1-2. DOI: 10.1109/APMRC.2018.8601116.

[12] LUO K, WANG S, XIE G, et al. Read Channel Modeling and Neural Network Block Predictor for TDMR [C]//2018 Asia-Pacific Magnetic Recording Conference (APMRC): S05-A01. USST, China, 2018: 1-2. DOI: 10.1109/APMRC.2018.8601082.

[13] WANG S, CHEN J, LUO K, et al. Four-Reader Array Detection for Two-Dimensional Magnetic Recording [C]//2018 Asia-Pacific Magnetic Recording Conference (APMRC): S08-B01. USST, China, 2018: 1-2. DOI: 10.1109/APMRC.2018.8601111.

[14] CHEN J, XIE G, LUO K, et al. Study of Erase Band and Write Performance in Shingled Mag-netic Recording with Exchanged Coupled Composite Media[C]//2018 IEEE International Magnetics Conference (INTERMAG): BQ-05. Singapore, 2018: 1-1. DOI: 10.1109/INTMAG.2018.8508564.

[15] CHEN J, XIE G, LUO K, et al. Study of Erase Band and Write Performance for Shingled Magnetic Recording With FePt-Based Exchanged Coupled Composite Media[J]. IEEE Transactions on Magnetics, 2018, 54(11): 1-6. DOI: 10.1109/TMAG.2018.2829848.

[16] LUO K, WANG S, CHAN K S, et al. A Study on Block-Based Neural Network Equalization in TDMR System with LDPC Coding[C]//The 30th Magnetic Recording Conference (TMRC 2019): P1-7. Minneapolis, UM, USA, 2019: 1-2.

[17] WANG S, CHEN J, KE L, et al. Performance Evaluation of Four-Reader Array Detection for Two-Dimensional Magnetic Recording[J]. Science of Advanced Materials, 2019, 11(6): 835-841.

[18] 罗可, 张克政, 蹇雨根, 等. 一种磁盘数据写入过程非线性跃迁偏移的分类补偿方法: [P]. CN 117059134 A. 2023.

[19] 陈进才, 罗可, 卢萍, 等. 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.