

罗可

@ kenleo_lucas#outlook#com github.com/Ken-Leo

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

- 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.
- LUO K, JIAN Y, LIAO Y, ZHANG K, CHEN J*, LU P. A Graded Precompensation Scheme by Pattern Classification on Nonlinear Transition Shift for Perpendicular Magnetic Recording[J]. IEEE Transactions on Magnetism, 2023: 1-1. DOI: 10.1109/TMAG.2023.3288371.
- JIAN Y, LUO K, LI W, LOMAKIN V, CHEN J*, LU P. 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>.
- [7] CHEN W, CHEN J*, GAN Z, MA Y, **LUO K**, HUANG Z, HE Y, LU P. 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>.
 - [8] **LUO K**, WANG S, XIE G, CHEN W, CHEN J*, LU P, CHENG W. 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.
 - [9] CHEN W, CHEN J*, GAN Z, **LUO K**, HUANG Z, LU P. 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.
 - [10] **LUO K**, WANG S, CHAN K S, CHEN W, CHEN J*, LU P, CHENG W. 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.
 - [11] 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 Magnetics, 2019, 55(12): 1-6. DOI: 10.1109/TMAG.2019.2936181.
 - [12] XIE G, **LUO K**, WANG S, LU P, CHENG W, CHEN J*. 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.
 - [13] **LUO K**, WANG S, XIE G, CHEN J*, LU P, CHENG W. 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.
 - [14] WANG S, CHEN J*, **LUO K**, LU P, CHENG W. 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.
 - [15] CHEN J*, XIE G, **LUO K**, CHENG W, LU P, WANG Y. Study of Erase Band and Write Performance in Shingled Magnetic 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.
 - [16] CHEN J*, XIE G, **LUO K**, WANG S, LU P, WANG Y. 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.
 - [17] **LUO K**, WANG S, CHAN K S, CHEN W, CHEN J*, LU P, CHENG W. 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.
 - [18] 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.
 - [19] 罗可, 张克政, 蹇雨根, 李桅, 廖彦哲, 吴宇飞, 高宏宇, 陈进才, 卢萍. 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.
 - [20] 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.