

# 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

- ▶ 国家自然科学基金委员会，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
- ▶ 国家自然科学基金委员会，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
- ▶ 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
- ▶ 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

## 科研成果

## References

- [1] K. Luo, Y. Jian, Y. Liao, K. Zhang, J. Chen, and P. Lu, "A graded precompensation scheme by pattern classification on nonlinear transition shift for perpendicular magnetic recording," **IEEE Transactions on Magnetics**, pp. 1–1, 2023.
- [2] K. Luo, S. Wang, G. Xie, W. Chen, J. Chen, P. Lu, and W. Cheng, "Read channel modeling and neural network block predictor for two-dimensional magnetic recording," **IEEE Transactions on Magnetics**, vol. 56, no. 1, pp. 1–5, 2020.
- [3] K. Luo, S. Wang, K. S. Chan, W. Chen, J. Chen, P. Lu, and W. Cheng, "A study on block-based neural network equalization in tdmr system with ldpc coding," **IEEE Transactions on Magnetics**, vol. 55, no. 11, pp. 1–5, 2019.
- [4] G. Xie, K. Luo, S. Wang, P. Lu, W. Cheng, and J. Chen, "Rounded corner effect on write performance for shingled magnetic recording system," in **2018 Asia-Pacific Magnetic Recording Conference (APMRC)**, no. S01-A01, USST, China, Nov. 2018, pp. 1–2.
- [5] K. Luo, S. Wang, G. Xie, J. Chen, P. Lu, and W. Cheng, "Read channel modeling and neural network block predictor for tdmr," in **2018 Asia-Pacific Magnetic Recording Conference (APMRC)**, no. S05-A01, USST, China, Nov. 2018, pp. 1–2.
- [6] W. Chen, J. Chen, Z. Gan, K. Luo, Z. Huang, and P. Lu, "High-field enhancement of plasmonics antenna using ring resonator for hamr," **IEEE Transactions on Magnetics**, vol. 56, no. 7, pp. 1–5, 2020.

- [7] S. Wang, J. Chen, K. Luo, G. Xie, P. Lu, and W. Cheng, “Joint four-reader array equalization and detection for a single track in tdmr,” **IEEE Transactions on Magnetism**, vol. 55, no. 12, pp. 1–6, 2019.
- [8] S. Wang, J. Chen, K. Luo, P. Lu, and W. Cheng, “Four-reader array detection for two-dimensional magnetic recording,” in **2018 Asia-Pacific Magnetic Recording Conference (APMRC)**, no. S08-B01, USST, China, Nov. 2018, pp. 1–2.
- [9] J. Chen, G. Xie, K. Luo, W. Cheng, P. Lu, and Y. Wang, “Study of erase band and write performance in shingled mag-netic recording with exchanged coupled composite media,” in **2018 IEEE International Magnetism Conference (INTERMAG)**, no. BQ-05, Singapore, Apr. 2018, pp. 1–1.
- [10] J. Chen, G. Xie, K. Luo, S. Wang, P. Lu, and Y. Wang, “Study of erase band and write performance for shingled magnetic recording with fept-based exchanged coupled composite media,” **IEEE Transactions on Magnetism**, vol. 54, no. 11, pp. 1–6, 2018.
- [11] K. Luo, S. Wang, K. S. Chan, W. Chen, J. Chen, P. Lu, and W. Cheng, “A study on block-based neural network equalization in tdmr systemwith ldpc coding,” in **The 30th Magnetic Recording Conference (TMRC 2019)**, no. P1-7, Minneapolis, UM, USA, Jul. 2019, pp. 1–2.
- [12] S. Wang, J. Chen, L. Ke, G. Xie, P. Lu, and W. Cheng, “Performance evaluation of four-reader array detection for two-dimensional magnetic recording,” **Science of Advanced Materials**, vol. 11, no. 6, pp. 835–841, Jun. 2019.
- [13] 陈进才, 罗可, 卢萍, 甘棕松, 王少兵, 陈玮, 刘鑫, and 鲍锦星, “二维信道均衡模型训练方法及二维信道均衡方法,” Patent, 2019, CN 110211611 B.
- [14] Y. Jian, K. Luo, W. Li, V. Lomakin, J. Chen, and P. Lu, “Pattern constraints limiting nonlinear transition shift in high density magnetic recording,” **Journal of Magnetism and Magnetic Materials**, vol. 588, p. 171370, 2023.
- [15] Y. Liao, K. Zhang, Y. Jian, S. Wang, J. Chen, P. Lu, and K. Luo, “Decision-feedback single-layer read reconstruction and separation for three-dimensional magnetic recording,” in **2024 IEEE International Magnetism Conference (INTERMAG)**, no. AD-03, Rio de Janeiro, Brazil, May 2024, pp. 1–2.
- [16] K. Luo, Y. Wu, Y. Liao, S. Wang, Y. Jian, J. Chen, and P. Lu, “Quaternary neural network equalization for three-dimentional magnetic recording,” in **2024 IEEE International Magnetism Conference (INTERMAG)**, no. AD-11, Rio de Janeiro, Brazil, May 2024.