

Chunran Zhang

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Education

Southwest Jiaotong University

Bachelor's degree (expected July 2027)

Chengdu, China
Sep 2023 - Jul 2027

Research interests

Artificial Intelligence, Information Retrieval, Data Mining.

Preprints

Opacity Is Not Just Opacity

2026

Chunran Zhang

[arXiv:2609.14971](#) · [Code](#)

Extending alpha compositing to real-valued coefficients for background-adaptive contrast, with browser measurements and clipping trade-offs.

Top-K Is Not a Budget for Hybrid Retrieval

2026

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[arXiv:2609.15143](#) · [Code](#)

Certifying an exact prefix of the full-list RRF ranking within a specified access budget.

Query Expansion Should Be Coordinated: Dense Expands, Sparse Anchors

2026

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[arXiv:2608.15851](#) · [Code](#)

Coordinating query expansion across dense and sparse retrieval through semantic expansion and anchoring.

Exact Adaptive Hybrid Retrieval Without Fixed Top-L Cutoffs

2026

Chunran Zhang

[arXiv:2608.07152](#) · [Code](#)

Recovering exact complete-list fused rankings with request-specific retrieval depth instead of a fixed top-L cutoff.