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Cross-Modal Discrete Hashing

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Highlights

- We present a new cross-modal discrete hashing (CMDH) approach to learn compact binary codes for cross-modal scalable multimedia search. We develop a discrete optimization framework to jointly learn binary codes and a series of hash functions for each modality, so that the performance drop due to the inferior optimization techniques can be avoided.
- We present two cross-modal hashing algorithms called CMDH-linear and CMDH-kernel under the proposed framework, which performs linear and non-linear mappings to learn binary codes.
- Experimental results on three benchmark datasets clearly show that our methods achieve competitive results with the state-of-the-arts in cross-modal hashing.

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