# High-dimensional indexing technologies for large scale content-based image retrieval: a review

# 基于内容的大规模图像检索中高维索引技术综述

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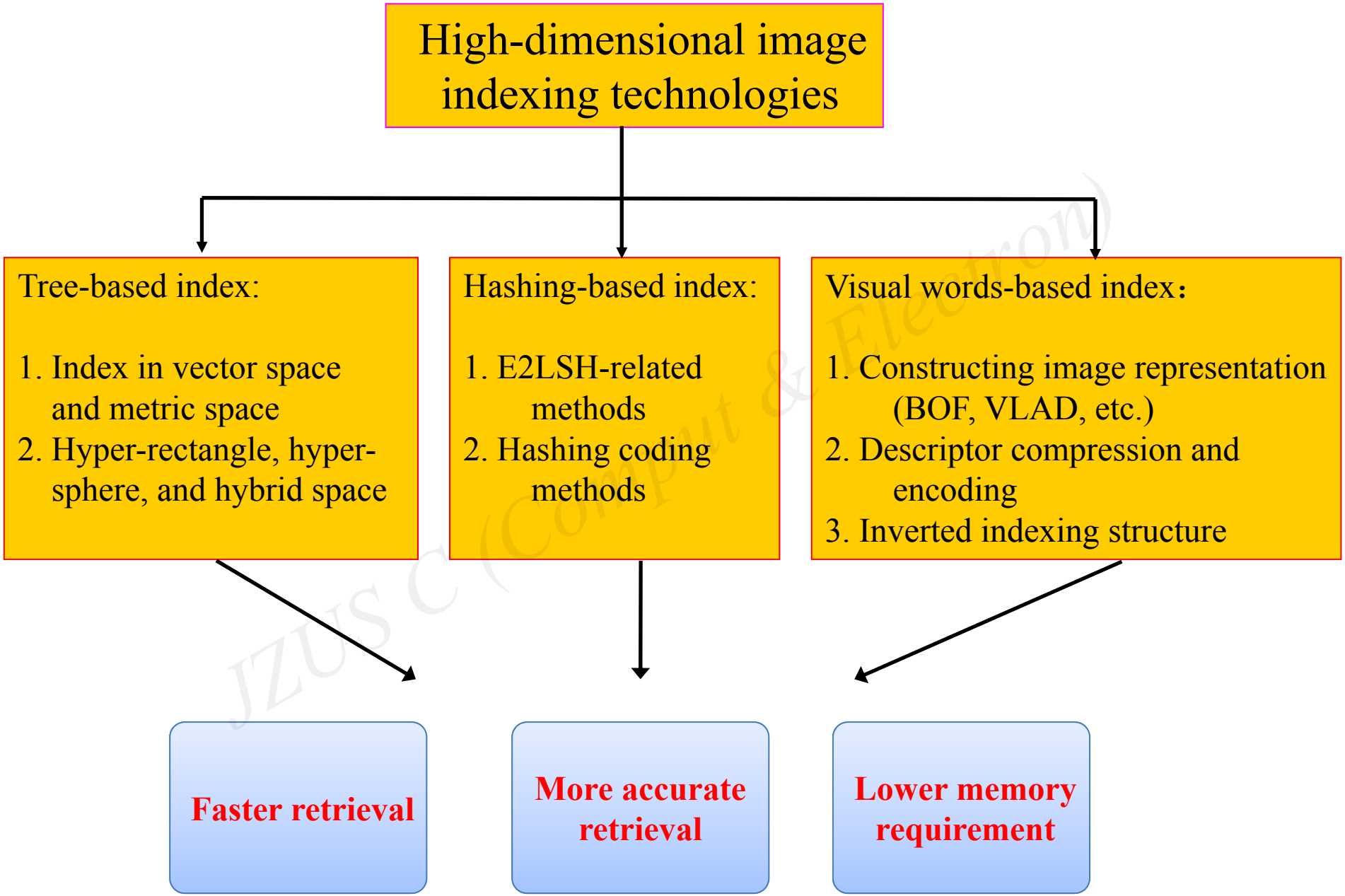
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- The boom of Internet and multimedia technology leads to the explosion of multimedia information, especially image, which has created an urgent need of quickly retrieving similar and interested images from huge image collections. The content based high-dimensional indexing mechanism holds the key to achieving this goal.

- Typical high-dimensional indexing mechanisms include ***tree-based index, hashing-based index,*** and ***visual words based inverted index***.

- Many important developments in high-dimensional image indexing technologies (e.g., E2LSH, hashing coding, BOF, descriptor quantization, and visual words-based inverted indexing structures) have occurred to cope with the 'curse of dimensionality'. However, how to develop an indexing structure that is robust to dynamic insertion or deletion, still remains a challenge.

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