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基于γ划分策略的高维数据索引结构的研究

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摘要:

提出了一种压缩金字塔树,将d维数据空间划分为2d个金字塔,由于在低维空间中无效的信息在高维数据空间中往 往无效,采用v划分策略对低维空间中的数据进行压缩,减小索引结构,克服了金字塔技术的缺点。给出了压缩金 字塔树的构造方法以及基于压缩金字塔树的查询算法。实验证明,压缩金字塔树是一种有效的空间划分策略,在高 维稀疏空间有良好的性能。

关键词: 压缩金字塔树 高维数据空间 y划分策略 索引结构 金字塔技术

High-dimensional indexing structure based on \mathbf{v} splitting strategy

Abstract:

An effective index structure was proposed for high-dimensional data spaces: compact pyramid tree. The 上y划分策略 basic idea is to divide the data space first into 2d pyramids sharing the center point of the space as a top. Its basic philosophy is: the data invalid in low-dimensional spaces are usually invalid in highdimensional spaces. In the process of spatial division, the y division strategy was used to carry out the data compression. It reduced the index structure, and overcame the pyramid technology s shortcomings. The construction method and inquiry algorithm of pyramid tree were given. The experiments prove that compact pyramid technology is an effective spatial division strategy, and has good performance in high dimensional skew space.

Keywords: compact pyramid tree high-dimensional data space γ splitting strategy indexing structure pyramid technique

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