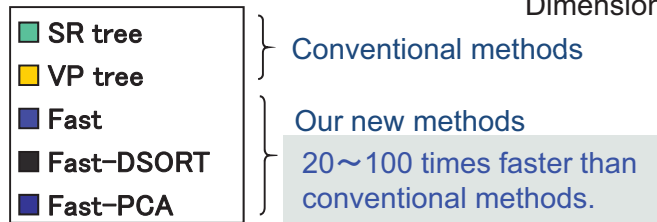
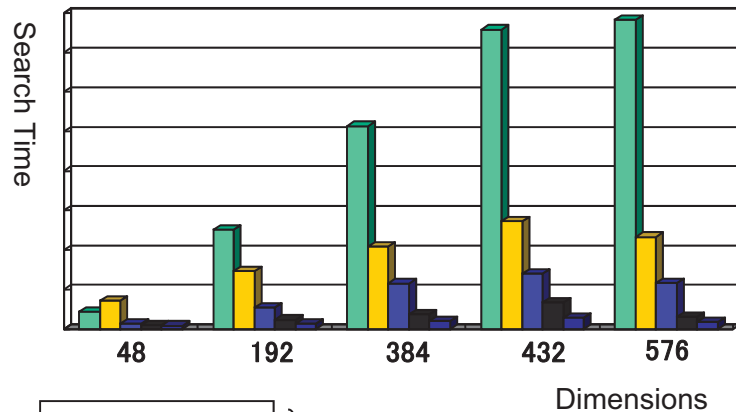




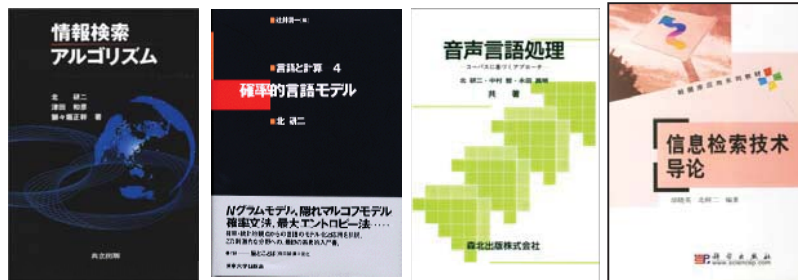
Faculty of Engineering
Tokushima University

Efficient Multimedia Information Retrieval

Professor Kenji Kita



Development of the Fastest Multidimensional Search



Selected Professional & Technical Books by K.Kita

Content:

With the increasing size and complexity of multimedia databases, the problem of getting fast access into those large-scale databases has become immensely important.

We are concerned with the development of efficient search algorithms for a variety of multimedia formats, and have succeeded in developing novel methods as follows:

- The world's fastest multidimensional nearest search algorithm,
- A fast algorithm for computing the earth mover's distance (EMD) between a pair of histograms , and
- A fast Hamming space search algorithm for audio fingerprinting systems.

We are also interested in developing flexible, intelligent, and efficient technology for multimedia contents as follows:

- Semantic and emotional search,
- Cross-media information retrieval, and
- EEG-based multimedia information retrieval.

Keywords : multimedia contents, information retrieval, search algorithm

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