



Two application systems has been implemented to demonstrate the effectiveness and applicability of the proposed system: a context-dependent image search system with dynamic query creation and a frame-wise video navigation system. Many quantitative experiments were intensively studied using these systems. The experimental results have shown a high usability of query creation functions to reflect imaginations of users into queries and the advantages of the search algorithms to obtain high performances comparative to other conventional search techniques.

**Keywords:** Multimedia Retrieval, Subspace Selection, Query Creation, Large-scale Data, Video Navigation.