
Abstract
ERIC7 is a software test-bed that implements Content-Based Image Retrieval (CBIR) compatible with the MPEG-7 multimedia standard. In its current version, the system allows automatic MPEG-7/XML encoding of up to 15 color, texture and shape descriptors with two query modes: search from example images and database clustering. In addition, the system allows to navigate graphically among the various descriptors in the XML files in order to easily track encoding results and system performance. The system is being tested on various types of images, including images of man-made and natural objects, as well as “scape-type” scenes. The system architecture is expandable to video indexing and retrieval.