

ISSUES AND TRENDS IN LIBRARY AND INFORMATION SCIENCE

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Research Management Centre
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA



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INFORMATION SCIENCE**

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CHAPTER 10

SEMANTIC GAP BETWEEN CONTENT-BASED AND CONCEPT-BASED IMAGE RETRIEVAL SYSTEM

ROSLINA OTHMAN

Image retrieval continues to be a prominent research agenda due to the many works on image digitization¹, such as the U.S. Fish and Wildlife Service National Digital Library (<http://digitalmedia.fws.gov/>) and the Europeana (<http://www.europeana.eu/portal/>).

Image retrieval has been classified into three approaches: concept-based, content-based, and the combination of the two approaches. Examples are Concept-based Image Retrieval System (COIRS)², Query-by Image Content (QBIC) system³, and Content Based Image Retrieval System (CIRES)⁴.

Semantic Gap

Smeulders et al. (2000). explain semantic gap as “the lack of coincidence between the information that one can extract from the visual data and the interpretation that the same data have for a user”⁵. Figure 1 exhibits