

Semantic Media Retrieval: Combining Content and Knowledge

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After about two decades of research, content-based media retrieval is starting to produce usable technologies, some of which are being progressively integrated in search engines and other commercial systems. But the semantic gap has been finally bridged or is still there? For sure some big steps have been done towards this goal, attacking the problem from different viewpoints: query formulation, user interaction, media description, automatic annotation. More research is certainly needed, but the main road is traced: jointly exploiting signal processing and knowledge representation technologies is the only way to capture the semantics in media.