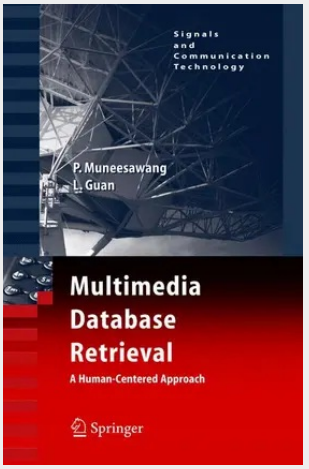
Muneesawang / Guan

Multimedia Database Retrieval:

A Human-Centered Approach



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Multimedia Database Retrieval: A Human-Centered Approach presents the latest development in user-centered methods and the state-of-the-art in visual media retrieval. It includes discussion on perceptually inspired non-linear paradigm in user-controlled interactive retrieval (UCIR) systems. It also features a coherent approach which focuses on specific topics within content/concept-based retrievals via audio-visual information modeling of multimedia.

Highlights include:

* Exploring an adaptive machine that can learn from its environment

* Optimizing the learning system by incorporating self-organizing adaptation into the retrieval process

* Demonstrating state-of-the-art applications within small, medium, and large databases

The authors also include applications related to Digital Asset Management (DAM), Computer Aided Referral (CAR) System, Geographical Database Retrieval, retrieval of Art Documents, and Films and Video Retrieval.

Multimedia Database Retrieval: A Human-Centered Approach presents the fundamental and advanced aspects of these topics, as well as the philosophical directions in the field. The methods detailed in this book possess broad applications which will advance the technology in this fast developing topical area.

This state-of-the-art reference covers adaptive content-based retrieval systems and techniques in image and video database applications. It first introduces a perceptually inspired non-linear paradigm in user-controlled interactive retrieval (UCIR), providing an effective tool to bridge the perceptual gap between high-level semantics in human vision and low-level features used by computers. The text includes a novel machine-controlled interactive retrieval (MCIR) method that optimizes image search in distributed digital libraries over the Internet. Finally, UCIR and MCIR systems are demonstrated by applications including Digital Asset Management (DAM), Geographical Database Retrieval, Searching and Retrieval of Art Documents, and Film and Video Retrieval.

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