Mobile Video Browsing and Retrieval with the OVIDIUS Platform

OVIDIUS (On-line VIdeo Indexing Universal System) provides remote access to video content from fixed and mobile environments with fine granularity browsing, navigation and retrieval functionalities

Context and objectives

- Increasing use of smartphones for video consumption but limited functionalities for video navigation and retrieval on mobile platforms
- Need of dedicated tools for query formulation, metadata driven visualization/navigation and ergonomic user interaction
- Rapid video browsing and access to specific segments of interest

Contributions

- Modular and distributed architecture implemented with the help of web services (facility to upgrade & expand)
- Core interoperability achieved with open MPEG-7 standard technologies
- Fine granularity access to video content, based on the MPEG-7 structural approach for video content description

- Advanced interaction functionalities integrating browsing, search, and hierarchical navigation/visualization
- Support of both textual, content-based and hybrid queries
- Compatibility with a vast variety of platforms

Perspectives

- Extension with new, advanced descriptors and extraction engines
- Elaboration of an object detection / recognition / retrieval framework