

Query formats for multimedia applications ISO/IEC 15938-12 (MPEG Query Format) & ISO/IEC 24800 (JPSearch)

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Abstract— Digital images are being generated, distributed and stored worldwide at an ever increasing rate. This is increasing the urgency of solving and standardizing solutions for challenging questions surrounding image repositories. Currently, almost every repository offers a different retrieval interface and image metadata description format, preventing unified and efficient access to those repositories. In this context, ISO/IEC SC29WG11 (more commonly known as MPEG) and ISO/IEC SC29WG1 (more commonly known as JPEG) have been working to create standard interfaces for media repositories. In one hand, MPEG has recently finished the ISO/IEC 15938-12 a.k.a. MPEG Query Format (MPQF), which standardizes a query language for multimedia repositories. On the other hand, JPEG is now finishing the ISO/IEC 24800, a.k.a. JPSearch, which aims on standardizing interfaces of an abstract image retrieval framework. This framework should help to decouple the in general tightly coupled systems and provide interoperability during image search among JPSearch aware repositories.

Index Terms—multimedia, images, metadata, search and retrieval, standard, MPEG, JPEG, MPQF, JPSearch, query format.