Visual Engines

VE Photo Archives Information Retrieval

vepair.visualengines.com

❶ Image source

❷ Find similar with VePAIR

❸ Result of search

Visual Engines s.r.l.
www.visualengines.com

Visual Engines (VE) is a company founded by the researchers of the Information Science and Technologies Institute (ISTI) of the National Research Council (CNR) in Pisa, together with Inera Ltd. VE develops technologies and software products based on automatic visual analysis, search and recognition. VE offers two products: VeMIR, a SDK to build mobile applications, and VePAIR, a visual retrieval engine to be used on large visual archives. Both solutions benefit from indexing strategies that are able to deal with a very large amount of images (hundreds of millions) with a very limited hardware, which makes it possible to serve visual queries with sub-second response time with a limited budget.

Applications that can be realized by using VE tools include Smart Access to Cultural Heritage, Smart Tourism, Visual Archives Management, Copyright Infringement Detection, Smart Shopping and Augmented Contents and Advertising. Efficiency and scalability, which are the main technological advantages of the proposed solutions, make it possible to manage a huge amount of data both on powerful servers and on small smart devices such as smartphones and tablets.

VePAIR

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VePAIR is a visual retrieval engine offering both visual search and visual document management. It can be used to manage a photo archive with visual search capability that includes global appearance search (search for images with common features, such as natural scenes, sunsets, party, etc.), images containing similar objects (images containing the same monument, the same painting, etc.), face based search (photos portraying the same person), etc. The main functionalities offered by **VePAIR** can be summarized as follows:

- management of very large photographic archives (duplicate detection, clustering of similar images, detection of already owned material);
- search support to customers of a professional photographic archive;
- copyright infringement detection: discovering non-authorized usage of copyrighted material on Web sites, magazines, etc.

VePAIR is currently used by **ANSA** (the leading Italian press agency) to offer visual retrieval capability on its photographic archive, which is accessible through the ANSAFOTO Portal.

NEWSPAPER

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