Content-based Retrieval of Complex Data: from Bags of Visual Words to Bags of Visual Phrases

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The amount and complexity of data generated and managed in nowadays systems, such as images, videos, and time series among others, bring several challenges to the data management developers in order to comply with the expectation of the users and data owners. Not only the majority of the applications demand searching complex data through queries considering several different aspects on the same data, but also getting the answers in a timely manner. Content-based similarity retrieval enables performing queries and analyses using the required features automatically extracted from the data without user intervention.

In this talk we will discuss the use of bags-of-visual words and the more semantical approach bags of visual phrases. We will also present some examples and results obtained with more than a decade of experience over real applications.

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