Large scale supervised image retrieval through hashing methods

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Résumé du projet de recherche (Langue 1)

With the rapid development of information acquisition technology, we have witnessed an explosive growth in the scale of shared data collections. Then, it is now possible to use very large data sets to tackle fundamental problems. Especially those addressing challenging tasks in machine learning for developing large scale approaches for multimedia retrieval and mining. Computer Vision is experiencing this paradigm shift, with large annotated image and video datasets becoming available. Indeed, various benchmark datasets for image classification have been released such as Caltech 101, Caltech 256, PASCAL VOC, LabelMe, etc. Stimulated by recent progress in scalable machine learning, it is now possible to use very large training sets to address challenging tasks for developing much larger scale approaches for multimedia retrieval and mining. Therefore, in this thesis we study in depth training and retrieval efficient methods for large collections of visual concepts and annotated images.