Machine Learning and Deep Neural Networks for Face/Person Identification in Large-Scale Image and Video Datasets

Mots clés : Array

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Résumé du projet de recherche (Langue 1)

The goal of this thesis subject is to suggest novel solutions to learn accurate face/person identification models particularly those based on deep learning. Face and person identification opens perspectives for multiple novel contributions both in methodology and applications. From the methodological point-of-view, the proposed solutions will rely on deep models, which are known to be performant but data-hungry so their success is highly dependent on abundance and quality (diversity) of training data. This requires careful choices of deep network architectures and training strategies that overcome this scarcity. From the application point-of-view, face identification opens perspectives for multiple use cases ranging from multimedia, to access control through human computer interaction (see more details in the attached document).