
Post-doc proposal : Logo/Product recognition

- **Domain** : Computer Vision, Image Retrieval
- **Institution** : INRIA
- **Duration** : 18 months (may be extended)
- **Location** : Rennes, France. <http://en.wikipedia.org/wiki/Rennes>.
- **Environment** : The post-doc will stand in the TEXMEX project-team in INRIA (<http://www.irisa.fr/texmex>). The candidate will be integrated in a comfortable and stimulating environment. Rennes is a dynamic middle-sized town with a student population rate above 30%, 2 hours from Paris by train.
- **Description** : The post-doc will address the problem of image representation and recognition with a Mobile Phone. This problem receives an increasing interest, due to the emergence of smartphones with integrated digital cameras and reasonable processing power and bandwidth.
This work will be done in the context of the Quaero project (<http://quaero.org>), where we consider in particular the recognition of logos and products. The objective is to obtain the maximum retrieval accuracy in a context of image retrieval on Mobile Phone.
The post-doc will work in conjunction a team comprising researchers, PhD students and engineers.
- **Profile** : The candidate must hold a PhD degree. He should be have a strong background in one or two of the following problems : image descriptors, image indexing, approximate search techniques, geometrical matching. Publications in top Computer Vision and Multimedia conferences and journals are especially appreciated.
- **Salary** : 2138 euros (net) per month (2620 euros gross), social protection and medicare included
- **Contact** : Hervé Jégou and Patrick Gros (Firstname.Lastname@inria.fr)
- **References** :
 - [1] "Improving bag-of-features for large scale image search"
Herve Jégou, Matthijs Douze and Cordelia Schmid
International Journal of Computer Vision, 2010
 - [2] "Logo Retrieval with A Contrario Visual Query Expansion"
A. Joly and O. Buisson
ACM Multimedia, 2009
 - [3] "The Stanford mobile visual search dataset"
V. Chandrasekha et al.
ACM Multimedia Systems Conference, 2010
 - [4] "Product Quantization for nearest neighbor search",
Herve Jégou, Matthijs Douze and Cordelia Schmid
IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011