Post-Doc Position in Deep Learning for Video Annotation (M/F)
(Reference: Postdoc_DS_BH_NextGen_Feb2016)

Research topics
Multimedia Analysis, Mining and Indexing, Machine Learning, Deep Neural Networks
Media Fragments Hyperlinking

Department
Data Science

Start date
1st September 2016

Duration
12 Months

Description
EURECOM’s Data Science Department invites applications for a 12 months, full-time, post-doctoral position related to the NexGenTV project. The project was selected for public funding from DGE/BPI France inside the FUI 19, i.e. the 19th tender of the “Fonds Unique Interministériel” (Single Inter-Ministry Fund) government agency. NexGenTV has been labeled by the two technology competitive clusters, SCS and Image & Réseaux.

Television is undergoing a revolution, moving from the TV screen to multiple screens. Today’s user watches TV and, at the same time, browse the web on a tablet, sends SMS, posts comments on social networks, searches for complementary information on the program, etc... Facing this situation, NexGen-TV was thought to offer new solutions. The foundations of the project translates into functionalities such as the automatic detection of the highlights of a program, the (semi)-automatic addition of complementary information for a program, or the optimization of the user experience via increased interaction in line with the viewer’s expectations. The solutions that we will develop within NexGen-TV will cover two cases: LIVE: The main challenge in the live scenario is that of real-time processing required for sports programs (“FIFA Euro 2016”) and political debates; REPLAY: The main challenge for replay is the quality of the information presented to the user in addition to the program.

The selected candidate will have a chance to develop an expertise in large scale multimedia processing, deep learning for video annotation, multimedia mining and search and retrieval. The successful candidate will research and develop methodologies and services for media analysis search and hyperlinking in broadcast media.

Requirements
We are looking for candidates who are highly motivated to conduct high quality research, publish in top venues, eager to develop integrated demonstrators and keen to tutoring users on high-end state of the art systems. Candidates should have a PhD Degree (or equivalent) in Computer Science, or a closely related area, preferably with a focus on multimedia analysis. They are also expected to have good analytical skills and some background in the area of information retrieval and machine learning. Good programming skills are expected. A good level of written and spoken English and French is required.

Application
Screening of applications will begin immediately, and the search will continue until the position is filled. Applicants should send, to the email address below (i) a one page statement of research interests and motivation, (ii) a CV and (iii) contact details for three referees (preferably one from your PhD or most recent research supervisor).

Applications should be submitted by e-mail to:
- Dr. Benoit Huet (Benoit.Huet@eurecom.fr)
- secretariat@eurecom.fr

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EURECOM specifically encourages women to apply with a view towards increasing the proportion of female researchers.