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Post-doc Job Offer – Audiovisual Content Analysis

Employer : Centre National de la Recherche Scientifique
Location: IRISA, Rennes
Contract: post-doctoral researcher, 18 months, starting as soon a possible from March 2017
Salary: 2,815€ monthly gross salary (including social benefits)
Contact: Guillaume Gravier (prenom.nom@irisa.fr)

LINKMEDIA is a research team of IRISA and Inria Rennes, France, working on the development of future technology enabling content-based description of and access to multimedia content. The team's areas of expertise include computer vision and image processing, speech and audio processing, natural language processing, information retrieval and media mining. LINKMEDIA participates to the NexGenTV project, an industry-academia joint venture on the analysis and enrichment of TV content. Television is undergoing a revolution, moving from the TV screen to multiple screens. Today's user watches TV while exploring the web, searching for complementary information and commenting on social networks. Facing this situation, NexGenTV was thought to offer news solutions for the creation of rich multiscreen content and applications. This goal translates into functionalities such as highlight detection, program enrichment with additional information, and, more generally, optimization of the user experience via increased interaction in line with the viewer's expectations. Within the project, IRISA contribute to research activities regarding the analysis of audiovisual content, spoken content and social signals.

In this context, we are recruiting a post-doctoral researcher specialized in audiovisual content analysis to develop, study and evaluate novel approaches for person analysis in TV content. We specifically target multimodal (voice+face) approaches that enable identifying known persons or linking video segments from the same person. A first approach consists in extending recent work in the team on multimodal embedding with deep neural architectures. These architectures also provide interesting opportunities for voice representation and comparison. In a second step, we will investigate how such models can be used to enrich live TV content with excerpts from large archives, combining person comparison with semantic relevance.

Research activities will take place at IRISA, Rennes (France) within the LINKMEDIA team, in close collaboration with the partners of NexGenTV. Particular interaction with EURECOM is foreseen.

Prospective candidates should hold a PhD degree in a domain close to the research topic, preferably in one of the following specialism: multimodal modeling, speech and audio processing, speaker recognition, computer vision. Candidates are expected to consolidate the team's expertise in deep learning applied to multimedia content analysis.

Applications should include a resume along with a letter of motivation.