Technicolor R&D France Snc
975 av des Champs Blancs – CS 17616
35576 Cesson-Sévigné Cedex - France

tél. + 33 (0)2 99 27 30 00
fax + 33 (0)2 99 27 30 01

Internship proposal for 2015
Proposal ref: (completed by HR)

Title of internship

Vocal double

Summary of the internship

The ability to capture and reproduce the voice timber and the speech prosody of a given person has made impressive progress, e.g., with recent Ircam projects: based on several hours of recording of an actor reading texts, entirely new synthetic speech of incredible resemblance can be uttered in the same language; also, using much less training data, voice timber can also be transferred to some extent to the natural speech of another speaker. In this work, we would like to investigate ways to push further such systems to create polyglot voice doubles, with various applications. The intern will have to get acquainted with existing voice analysis and reproduction (either by synthesis or by transfer) techniques and will try and alleviate the current mono-lingual limitations.

Keywords

Voice analysis, Prosody, Speech Synthesis.

Working environment

Technicolor is an industry leader in the production of video content for movies, TV, advertising, games and more. The company provides production, postproduction, and distribution services to content creators, network service providers and broadcasters. Technicolor Research Rennes is the largest Technicolor Research Center conducting research in various domains applying to the creation, management and delivery of digital content. For more information on Technicolor R&I Rennes: https://research.technicolor.com/rennes/

The internship will be hosted in Imaging Science Lab (ISL) within Technicolor R&I Rennes. More specifically, he/she will join the "Image & Vision" team composing of more than twenty researchers and engineers coming from many different countries. One major goal of the team is to conduct the research towards describing and searching for contents from large data collections as well as enhancing and adapting these contents to any devices.

Desired profile of the applicant

3th year of engineering school ("école d'ingénieurs") or M.Sc. ("master recherche")
Specialized in signal processing and / or applied mathematics
Programming skills (Matlab, Python and C++ may also be needed)
Strong interest in research
Ease of adaptation, good communication skills and good teamwork spirit
Fluent English

Internship period & duration

Minimum 6 months (from February 2015 to August 2015)

Salary: 1200 euros / month (brut)

Internship supervisor & contact

Patrick Pérez, Alexey Ozerov and Ngoc Q. K. Duong
E-mail : patrick.perez@technicolor.com / alexey.ozerov@technicolor.com / quang-khanh-ngoc.duong@technicolor.com

Apply at: stage.rennes@technicolor.com