

Research position In Speech Synthesis

Massive generation of TTS for Deepfake detection

CONTEXT

EXPRESSION team from IRISA is hiring an engineer in Computer Science on a full-time 12 months contract (may be extended). EXPRESSION research team is at the heart of the AI revolution as it studies and generates Human language using different modalities, i.e. Text, Speech and Sign. In particular, the team participates to a project targeting the development and evaluation of deep fake speech detection systems. To this end, we have to implement a large variety of speech synthesis systems, including voice cloning systems and voice conversion systems. The engineer will work on the massive generation of synthesized speech in the context of deepfake detection.

Team webpage: https://www-expression.irisa.fr/fr/

JOB DESCRIPTION

Mission: Development of speech synthesis systems including a large variety of technologies, including voice cloning and voice conversion systems:

- Data preparation for different languages;
- Set up a global framework for Text-To-Speech synthesis (TTS);
- Implement different TTS systems for different languages;
- Contribute to the development of deep fake detection systems;

Environnement: The recruited person will be integrated to the research team and will collaborate with the partner company.

Required diploma: PhD in Computer Science, Master in Machine Learning or Master in Speech and Language Processing

Required skills: Software engineering (C++, Python); Machine learning methods and tools (Tensorflow, PyTorch, Keras); Automatic Speech and Language Processing; CI/CD.

GENERAL INFO

Where: IRISA Lab in Lannion, France

When: As soon as possible

Duration: 12 months (ending in August 2025)

Salary: Depending on experience

Contacts: damien.lolive@irisa.fr, arnaud.delhay@irisa.fr, vincent.barreaud@irisa.fr















