ECLIPSE, a research program devoted to voice pathology assessment

Goals of the project

- Detection of dysperiodicities in sustained vowels and connected speech
- Development of a clinical station including
  - Assessment of vocal disorder in sustained vowel or connected speech for normophonic or dysphonic speakers
  - Multimodal analysis of the vibration of vocal folds
- Development of an embedded monitoring system

Several aspects of the project

**Research**

**Speech**


**Image**


**Clinical station**

- Recording of the voice in real conditions of production (ex: teacher, lawyer, singer)
- Recording of the pain sensation via the interaction between the user and the device
- Connection between the portable device and the clinical station

**Prototypes**

- Embedded monitoring device
- SQL Database
- Collection of a database including normophonic and dysphonic speakers (speech and image)
- Benefit of using a high-speed camera in clinical evaluation
- Voice Handicap Index for the singers

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