Leila Ben Letaifa, Mikel de Velasco, Raquel Justo and M. Inés Torres. *SLSP 2019: 7th International Conference on Statistical Language and Speech Processing SLSP, Ljubljana, Slovenia - October 14-16, 2019*
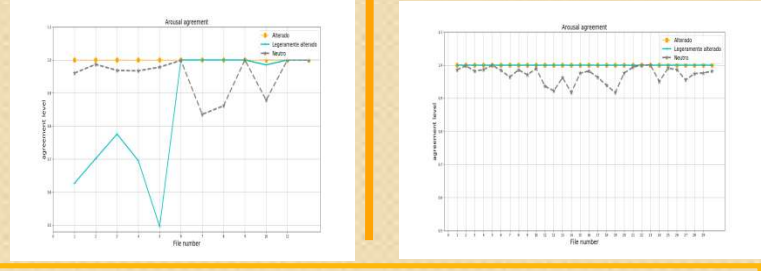
First steps to develop a corpus of interactions between elderly and virtual agents in Spanish with emotion labels

EMPATHIC
European H2020 project

Expressive, Advanced Virtual Coach to Improve Independent Healthy-Life-Years of the Elderly

Objectives

Audio emotion annotation
Emotion recognition

Database description

- Speaker
- Wizard / Silence

134 recording of audiovisual dialogs
79 elder people participants
Speech is extracted

Annotation protocol

Labels

Category : calm sad happy puzzled tense
Arousal : excited / slightly excited / neutral
Valence : positive / slightly positive / slightly negative / negative
Dominance : rather dominant / neither dominant nor intimidated / rather intimidated

Procedure

Inter-annotator agreement

Annotations' analysis

	calm	sad	hap	puzl.	tense	total
1	7017	17	260	347	12	7:17:56
2	7794	19	292	297	24	7:11:10
3	7655	21	244	360	20	7:02:10

Emotion recognition

Acoustic parameters

Arousal,, valence, dominance
ZCR, Energy Entropy of energy
Spectral features :
Centroid | Spread | Entropy | Speed | rolloff

Classification system