Inferring Emotions from Human Voice

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1-Problem

Although most ECAs respond to what the user says, they often do not respond to how the user says it, hence ignoring the emotional state of users during the conversation.

Inferring the current emotional state of users enables us to build more realistic ECA and more effective applications.

2-The Process

- **Step 1**: Capturing the sound
- **Step 2**: Preprocessing
  - Extracting signals
  - Extracting Emotions
- **Step 3**: Adding context
  - Information
  - Minimizing the error
- **Step 4**: Using the information in a model, app or system

3-The System

4-Conclusions

- Combining different sources of information increases accuracy.
  - Context
- There are some limitations when working with vocal signals.
- Adding emotions to human-agent interaction enriches user experience.

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