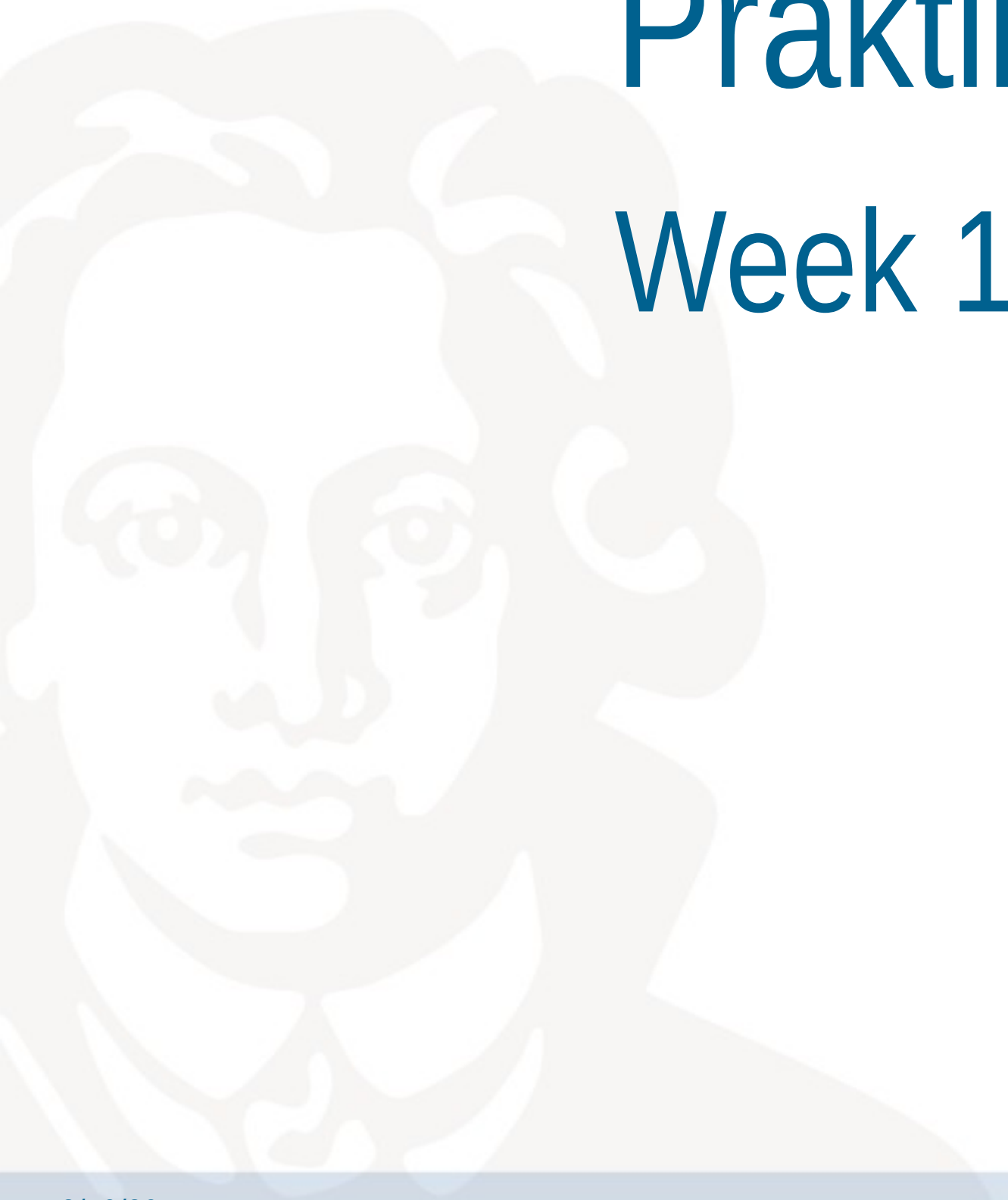


Martin Mundt, Dr. Iuliia Pliushch, Prof. Dr. Visvanathan Ramesh

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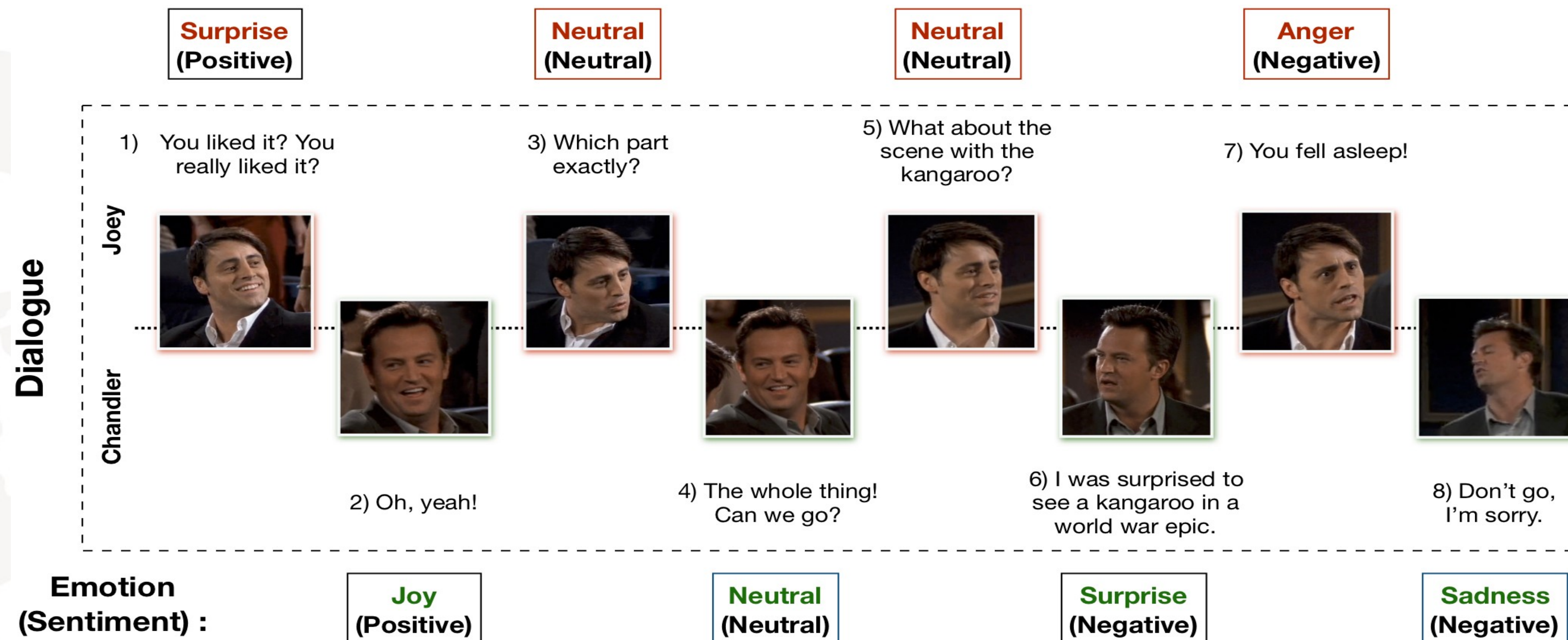
Praktikum: MLPR-WS19

Week 15: Pitch – Multimodal emotion recognition



Multimodal emotion recognition

- MELD: Multimodal EmotionLines Dataset: <https://github.com/senticnet/MELD/>
- Task: Use the information from different modalities to identify the **emotions** of the speakers: Anger, Disgust, Sadness, Joy, Neutral, Surprise and Fear



Multimodal emotion recognition

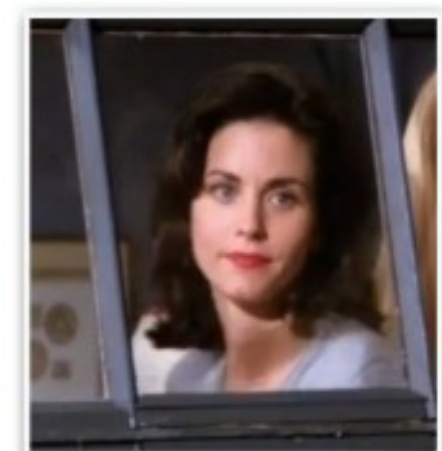
- MELD: Multimodal EmotionLines Dataset: <https://github.com/senticnet/MELD/>
- Task: Use the information from different modalities to identify the **emotions** of the speakers: Anger, Disgust, Sadness, Joy, Neutral, Surprise and Fear



Utterance: "Become a drama critic!"

Emotion: Joy **Sentiment:** Positive

Text	Audio	Visual
Ambiguous	Joyous tone	Smiling Face



Utterance: "Great, now he is waving back"

Emotion: Disgust **Sentiment:** Negative

Text	Audio	Visual
Positive/Joy	Flat tone	Frown

Figure 2: Importance of multimodal cues. Green shows primary modalities responsible for sentiment and emotion.

Method: construct a suitable RNN/LSTM-based architecture which processes visual, auditory and text data, in order to identify the emotions of the speakers.

Poria, Soujanya, et al. "Meld: A multimodal multi-party dataset for emotion recognition in conversations." arXiv preprint arXiv:1810.02508 (2018).