

Emotion-aware cross-modal domain adaptation in video sequences

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Propositions

accompanying the dissertation

EMOTION-AWARE CROSS-MODAL DOMAIN ADAPTATION IN VIDEO SEQUENCES

by

Christos Athanasiadis

1. *Reason is, and ought only to be the slave of the passions.* We perceive ourselves to be rational beings, however, our decision-making system is a complicated process and involves our affective system.
2. The perception of auditorily presented speech by humans is influenced by the concurrence of visual speech stimuli.
3. When performing emotion recognition, it is crucial to take into account all available sources of information.
4. Applications of Domain adaptation and Emotion Recognition are important to our community and can have a tremendous impact. Both are important for developing Artificial general intelligence (AGI).
5. Conducting research in artificial intelligence will always be limited by our availability in datasets and their misrepresentation of context.
6. Generative models have the capacity to model similarities among different types of distributions. Employing the *Wasserstein distance* can also help in modelling the relationship between audio and visual modalities for performing Emotion Recognition.
7. Attention methods can help understand and capture temporal expressivity features among human expressivity cues.
8. Temporal information is crucial when studying the ties between audio and face modalities, an in particular, when studying the emotion-aware relationship.
9. Discrimination and stereotyping are inherent problems that need to be seriously taken into consideration before deploying Emotion Recognition applications, especially when it comes to high-stakes domains.
10. Modern technologies are shaping our world at a rapid pace. Navigating this *brand new world* will require a minimum education of the general population in these technologies and how they can be used.