

# 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.