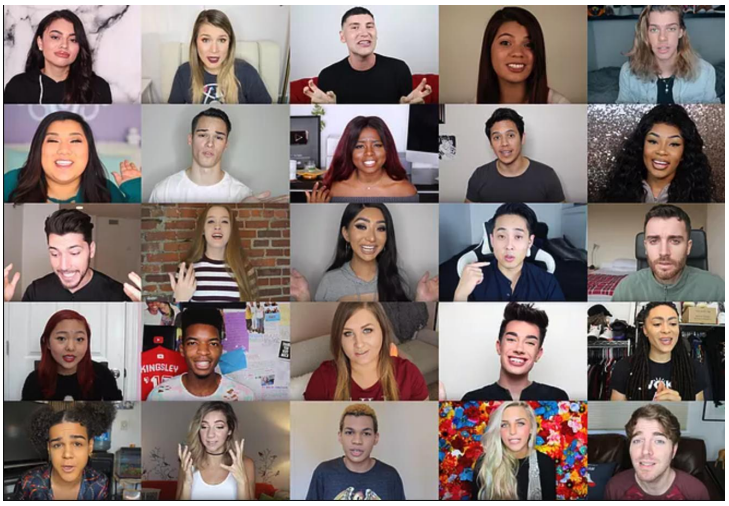
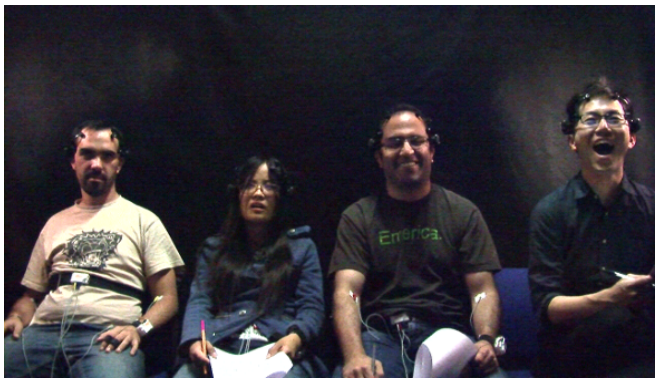
Multi-modal emotion recognition



Aim: to analyze the performance of the state-of-the-art emotion recognition algorithms on multimodal Amigos [1] and CMU-MOSEI [2] datasets.



To analyze the performance of the action recognition algorithms

- cluster analysis should be used,
- T-SNE visualization should be performed,
- confusion matrix should be computed.

Students should propose some improvements that can be either an emotion recognition model or a metric on how to evaluate the performance of emotion recognition algorithms on multimodal datasets.

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[1] J.A. Miranda-Correa, M.K. Abadi, N. Sebe, and I. Patras. AMIGOS: A Dataset for Affect, Personality and Mood Research on Individuals and Groups. IEEE Transactions on Affective Computing, 2018.
[2] A. B. Zadeh, P. P. Liang, S. Poria, E. Cambria, and L.-P. Morency. Multimodal language analysis in the wild: Cmu-mosei dataset and interpretable dynamic fusion graph. In Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), pages 2236–2246, 2018.