Publications by
Adria Mallol-Ragolta

A) Books

Contributions to Books (1):

1) N. Cummins, Z. Ren, A. Mallol-Ragolta, and B. Schuller, "Machine learning in digital health, recent trends, and ongoing challenges," in *Artificial Intelligence in Precision Health* (D. Barh, ed.), ch. 5, pp. 121–148, Academic Press/Elsevier, 2020. invited contribution

B) Refereed Journal Papers (2)

2) M. Song, A. Mallol-Ragolta, E. Parada-Cabaleiro, Z. Yang, S. Liu, Z. Ren, Z. Zhao, and B. W. Schuller, "Frustration Recognition from Speech During Game Interaction Using Wide Residual Networks," *Virtual Reality & Intelligent Hardware*, vol. 3, no. 1, pp. 76–86, 2021

3) S. Amiriparian, J. Han, M. Schmitt, A. Baird, A. Mallol-Ragolta, M. Milling, M. Gerczuk, and B. Schuller, "Synchronisation in Interpersonal Speech," *Frontiers in Robotics and AI, section Humanoid Robotics, Special Issue on Computational Approaches for Human-Human and Human-Robot Social Interactions*, vol. 6, pp. 1–10, November 2019. Article ID 116

C) Refereed Conference Proceedings

Contributions to Conference Proceedings (12):

4) S. Liu, A. Mallol-Ragolta, and B. Schuller, "COVID-19 Detection with a Novel Multi-Type Deep Fusion Method using Breathing and Coughing Information," in *Proceedings of the 43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society, EMBC 2021*, (virtual), IEEE, IEEE, October 2021. 4 pages, to appear

5) A. Mallol-Ragolta, S. Liu, and B. W. Schuller, "The Filtering Effect of Face Masks in their Detection from Speech," in *Proceedings of the 43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society, EMBC 2021*, (virtual), IEEE, IEEE, October 2021. 4 pages, to appear

6) A. Mallol-Ragolta, H. Cuesta, E. Gómez, and B. Schuller, "Cough-based COVID-19 Detection with Contextual Attention Convolutional Neural Networks and Gender Information," in *Proceedings of the 22nd Annual Conference of the International Speech Communication Association, INTERSPEECH 2021*, (Brno, Czechia), pp. 941–945, ISCA, ISCA, September 2021. (acceptance rate: 49 %)

7) S. Tirunellai Rajamani, K. Tirunellai Rajamani, A. Mallol-Ragolta, S. Liu, and B. Schuller, "A Novel Attention-based Gated Recurrent Unit and its Efficacy in Speech Emotion Recognition," in *Proceedings of the 46th IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2021*, (Toronto, Canada), pp. 6294–6298, IEEE, IEEE, June 2021. (acceptance rate: 48 %)

8) D. Aspandi, A. Mallol-Ragolta, B. Schuller, and X. Binefa, "Latent-Based Adversarial Neural Networks for Facial Affect Estimations," in *Proceedings of the 15th IEEE International Conference on Automatic Face & Gesture Recognition, FG 2020*, (Buenos Aires, Argentina), pp. 348–352, IEEE, IEEE, May 2020

9) A. Mallol-Ragolta, S. Liu, N. Cummins, and B. Schuller, "A Curriculum Learning Approach for Pain Intensity Recognition from Facial Expressions," in *Proceedings of the 15th IEEE International Conference on Automatic Face & Gesture Recognition, FG 2020*, (Buenos Aires, Argentina), pp. 534–538, IEEE, IEEE, May 2020

10) A. Mallol-Ragolta, N. Cummins, and B. Schuller, "An Investigation of Cross-Cultural Semi-Supervised Learning for Continuous Affect Recognition," in *Proceedings of the 21st Annual Conference of the International Speech Communication Association, INTERSPEECH 2020*, (Shanghai, China), pp. 511–515, ISCA, ISCA, October 2020. (acceptance rate: 47 %)

11) L. Stappen, A. Baird, G. Rizos, P. Tzirakis, X. Du, F. Hafner, L. Schumann, A. Mallol-Ragolta, B. W. Schuller, I. Lefter, E. Cambria, and I. Kompatsiaris, "MuSe 2020 Challenge and Workshop: Multimodal Sentiment Analysis, Emotion-target Engagement and Trustworthiness Detection in Real-life Media," in *Proceedings of the 1st Multimodal Sentiment in Real-life Media Challenge and Workshop, MuSe 2020, co-located with the 28th ACM International Conference on Multimedia, MM 2020*, (Seattle, WA), pp. 35–44, ACM, ACM, October 2020

12) F. Ringeval, B. Schuller, M. Valstar, N. Cummins, R. Cowie, L. Tavabi, M. Schmitt, S. Alisamir, S. Amiriparian, E.-M. Messner, S. Song, S. Liu, Z. Zhao, A. Mallol-Ragolta, Z. Ren, M. Soleymani, and M. Pantic, "AVEC 2019 Workshop and Challenge: State-of-Mind, Detecting Depression with AI, and Cross-Cultural Affect Recognition," in *Proceedings of the 9th International Workshop on Audio/Visual Emotion Challenge, AVEC 2019, co-located with the 27th ACM International Conference on Multimedia, MM 2019* (F. Ringeval, B. Schuller, M. Valstar, N. Cummins, R. Cowie, and M. Pantic, eds.), (Niece, France), pp. 3–12, ACM, ACM, October 2019

13) A. Mallol-Ragolta, Z. Zhao, L. Stappen, N. Cummins, and B. W. Schuller, "A Hierarchical Attention Network-Based Approach for Depression Detection from Transcribed Clinical Interviews," in *Proceedings of the 20th Annual Conference of the International Speech Communication Association, INTERSPEECH 2019*, (Graz, Austria), pp. 221–225, ISCA, ISCA, September 2019. (acceptance rate: 49.3 %)

14) A. Mallol-Ragolta, M. Schmitt, A. Baird, N. Cummins, and B. Schuller, "Performance Analysis of Unimodal and Multimodal Models in Valence-Based Empathy Recognition," in *Workshop Proceedings of the 14th IEEE International Conference on Automatic Face & Gesture Recognition, FG 2019*, (Lille, France), IEEE, IEEE, May 2019. 5 pages

15) A. Mallol-Ragolta, S. Dhamija, and T. E. Boult, "A Multimodal Approach for Predicting Changes in PTSD Symptom Severity," in *Proceedings of the 20th ACM International Conference on Multimodal Interaction, ICMI 18*, (Boulder, CO, USA), pp. 324–333, ACM, ACM, October 2018

D) Other

Theses (2):

16) A. Mallol-Ragolta, *Post-Traumatic Stress Disorder Severity Prediction on Web-based Trauma Recovery Treatments Through Electrodermal Activity Measurements*. Master thesis, University of Colorado Colorado Springs, Colorado Springs, CO, USA, July 2018. 149 pages

17) A. Mallol-Ragolta, *Facial shape estimation methods for computing physiological signals with non-invasive techniques*. Bachelor thesis, Universitat Pompeu Fabra, Barcelona, Spain, July 2016. 120 pages

Abstracts in Conference/Challenge Proceedings (1)

18) L. Stappen, N. Cummins, E.-M. Messner, A. Mallol-Ragolta, H. Baumeister, and B. Schuller, "Attention-based Neural Networks for the Detection of Objective Linguistic Markers in Depressive Spoken and Written Language," in *Proceedings of the 16th International Pragmatics Conference, IPrA 2019*, (Hong Kong, China), p. 759, International Pragmatics Association (IPrA), IPrA, June 2019

Technical Reports and Preprints (4):

19) A. Mallol-Ragolta, H. Cuesta, E. Gómez, and B. Schuller, "EIHW-MTG DiCOVA 2021 Challenge System Report," tech. rep., DiCOVA Challenge, March 2020. 4 pages

20) D. Aspandi, A. Mallol-Ragolta, B. Schuller, and X. Binefa, "Adversarial-based neural networks for affect estimations in the wild," *arxiv.org*, January 2020. 5 pages

21) L. Stappen, A. Baird, G. Rizos, P. Tzirakis, X. Du, F. Hafner, L. Schumann, A. Mallol-Ragolta, B. W. Schuller, I. Lefter, E. Cambria, and I. Kompatsiaris, "MuSe 2020 – The First International Multimodal Sentiment Analysis in Real-life Media Challenge and Workshop," *arxiv.org*, April 2020. 10 pages

22) F. Ringeval, B. Schuller, M. Valstar, N. Cummins, R. Cowie, L. Tavabi, M. Schmitt, S. Alisamir, S. Amiriparian, E.-M. Messner, S. Song, S. Liu, Z. Zhao, A. Mallol-Ragolta, Z. Ren, M. Soleymani, and M. Pantic, "AVEC 2019 Workshop and Challenge: State-of-Mind, Detecting Depression with AI, and Cross-Cultural Affect Recognition," *arxiv.org*, July 2019. 11 pages