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Building Predictive Models of Emotion with Functional Near-Infrared Spectroscopy

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Highlights

- Goal of this work is to classify affective states of Valence and Arousal using functional Near Infra-Red Spectroscopy
- Use Russel's circumplex model as the representation of affect
- Suggest novel method of using Brain "Regions of Interest" as a feature extraction technique for fNIRS based machine learning
- Across subject classification provided higher f1-score for Valence (.739) than previous literature

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