





BEAT: Berkeley Emotion and Affect Tracking Dataset

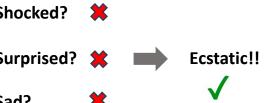
Jefferson Ortega Yunhui Guo Stella X. Yu David Whitney





Context is important in emotion recognition

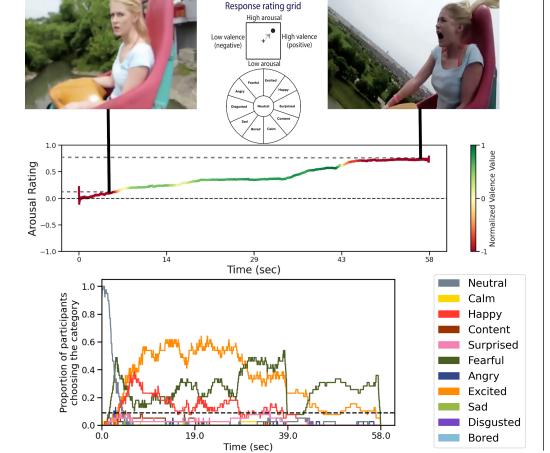






Zhihang Ren

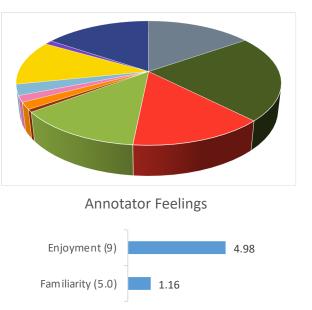
Annotation procedure for dynamic emotions

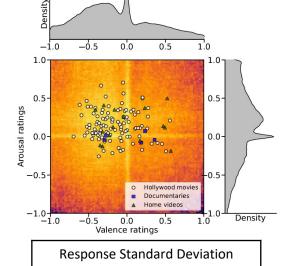


Comparison to other datasets

Database	Annotation Type	Condition	# videos	Length of Videos	# Annotators	Context
RECOLA	Valence-Arousal (Continuous)	Controlled	46	5min	6	×
AFEW	7 Basic Facial Expression	In-the-Wild	1,809	0.3s - 5.4s	3	×
Aff-Wild	Valence-Arousal (Continuous)	In-the-Wild	298	6s - 14min28s	8	×
Aff-Wild2	Valence-Arousal (Continuous)	In-the-Wild	260	4s - 15min4s	4	×
CAER	7 Emotion Categories	In-the-Wild	13,201	1s - 5s	6	✓
EMOTIC	Mixed	In-the-Wild Image-based	\	18,316 images	3-5	√
VEATIC	Valence-Arousal (Continuous)	In-the-Wild	124	10s - 2min37s	192	✓
BEAT (ours)	Mixed	In-the-Wild	124	10s - 2min37s	245	✓

Distribution of Emotions





all annotators

0.028

5 annotators

0.094

Dataset statistics

Attribute	Description
No. of Frames	257,601
No. of Videos	124
Total No. of Annotators	245
Avg. No. of Annotators per video	56
Length of Videos	10 s - 2 min 37s
Mean Image Resolution	854×480
Hollywood movies	104
Documentaries	5
Home videos	15

Sample Videos with Annotations

