

**Table 3. Features Used in Emotion Prediction.**

Feature Type			Description	Example
Entrainment	Association		Association among users	$Etr(v_i \rightarrow v_j)$
	Patterns	Dual	Reciprocal entrainment	$G(v_i, v_j)^*$ $SG(v_i, v_j)^{**}$
		Single	Single entrainment	$G(v_i, v_j)^*$ $f(\mathbf{D}_i)^{**}$
Modality	Emotion	Uni-Gram	Emotion status at each timestamp	POS_1, NEG_2 ...
		Bi-Gram	Emotion dependence existing in different timestamps	POS_1-NEG_2 ...
	Activity	Uni-Gram	User activity at each timestamp	Low_1, Medium_2, High_3, ...
		Bi-Gram	Activity correlation across different timestamps	Low_1-High_3, ...

Note: All features are extracted within a sliding window of 4 timestamps.

Numbers in features are relative positions to the timestamps for prediction.

\* : features only used for EnFG; \*\*: features only used for comparison methods.