

## 2023\_WSDM\_A Multimodal Framework for the Identification of Vaccine Critical Memes on Twitter

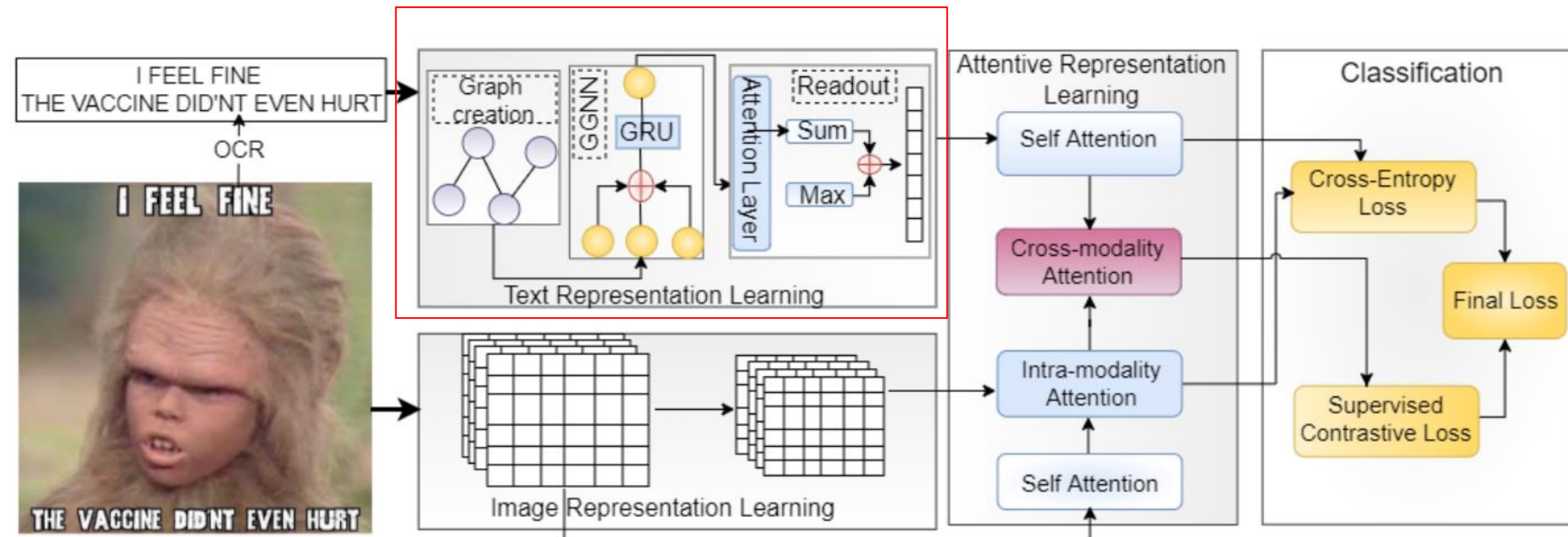
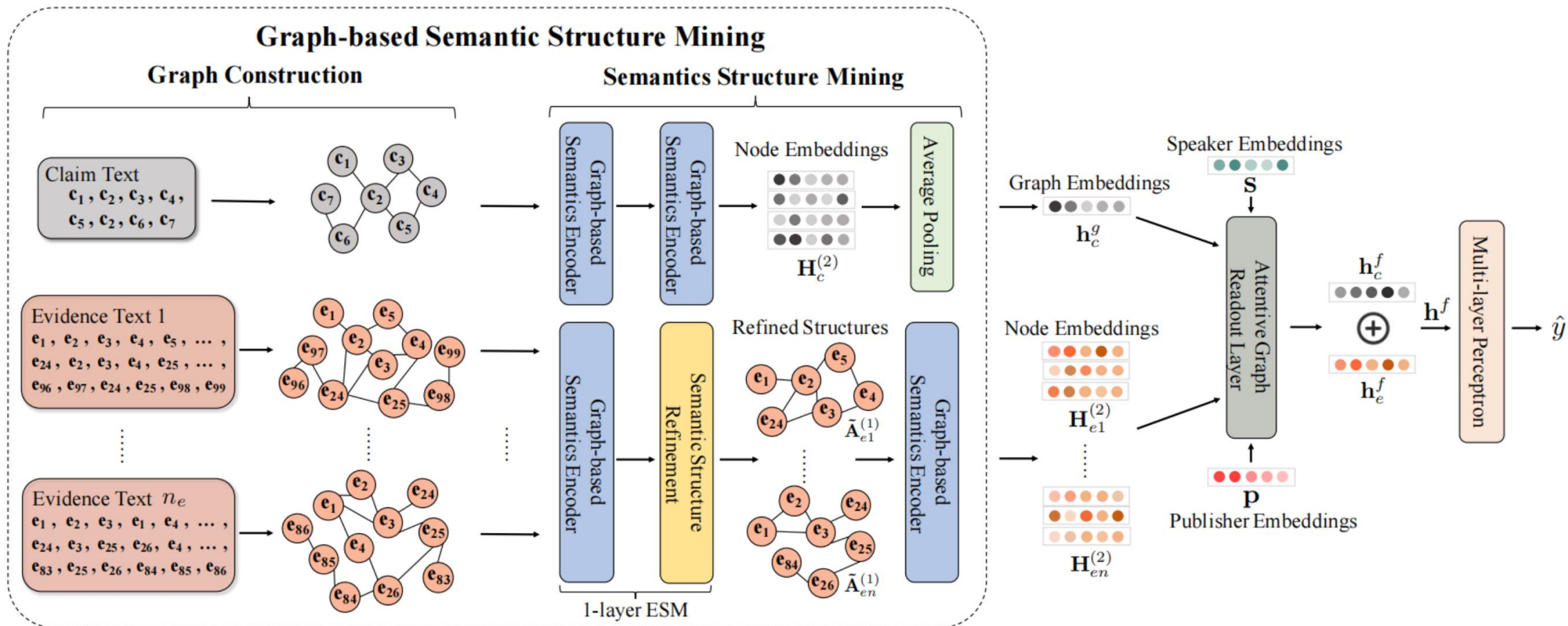


Figure 2: Overall architecture of the proposed multimodal framework.

## 2022\_WWW\_Evidence-aware Fake News Detection with Graph Neural Networks



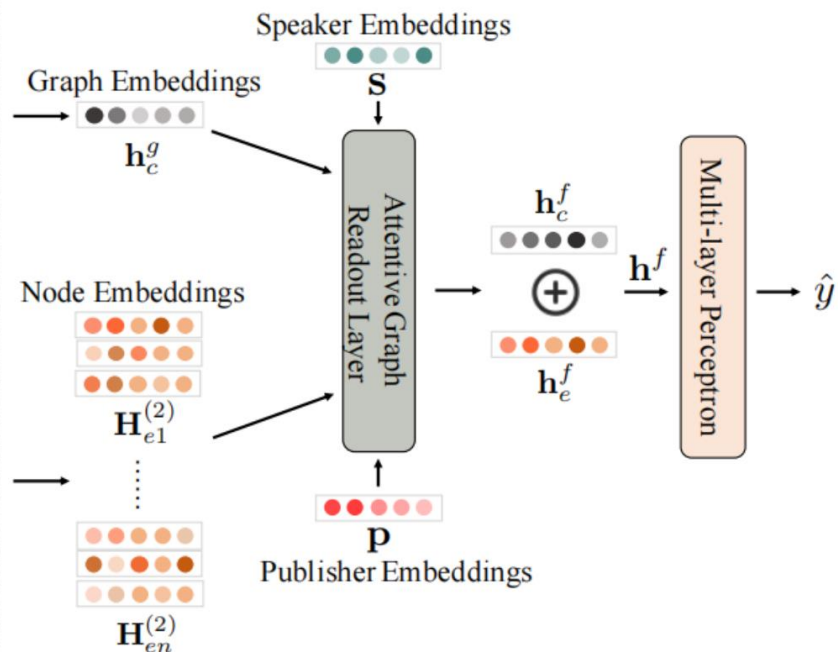
$$a_i = \sum_{(w_i, w_j) \in C} \tilde{A}_{ij} W_a H_j \quad (1)$$

$$z_i = \sigma(W_z a_i + U_z H_i + b_z) \quad (2)$$

$$r_i = \sigma(W_r a_i + U_r H_i + b_r) \quad (3)$$

$$\tilde{H}_i = \tanh(W_h a_i + U_h (r_i \odot H_i) + b_h) \quad (4)$$

$$\hat{H}_i = \tilde{H}_i \odot z_i + H_i \odot (1 - z_i) \quad (5)$$



$$s_r = \text{GGNN}(\tilde{A}, \hat{H}_e W_s) \quad (6)$$

$$idx = \text{topk\_index}(s_r) \quad (7)$$

$$\tilde{A}_{idx,:} = \tilde{A}_{:,idx} = 0 \quad (8)$$

## 2022\_KBS\_Improving multimodal fusion with Main Modal Transformer for emotion recognition in conversation

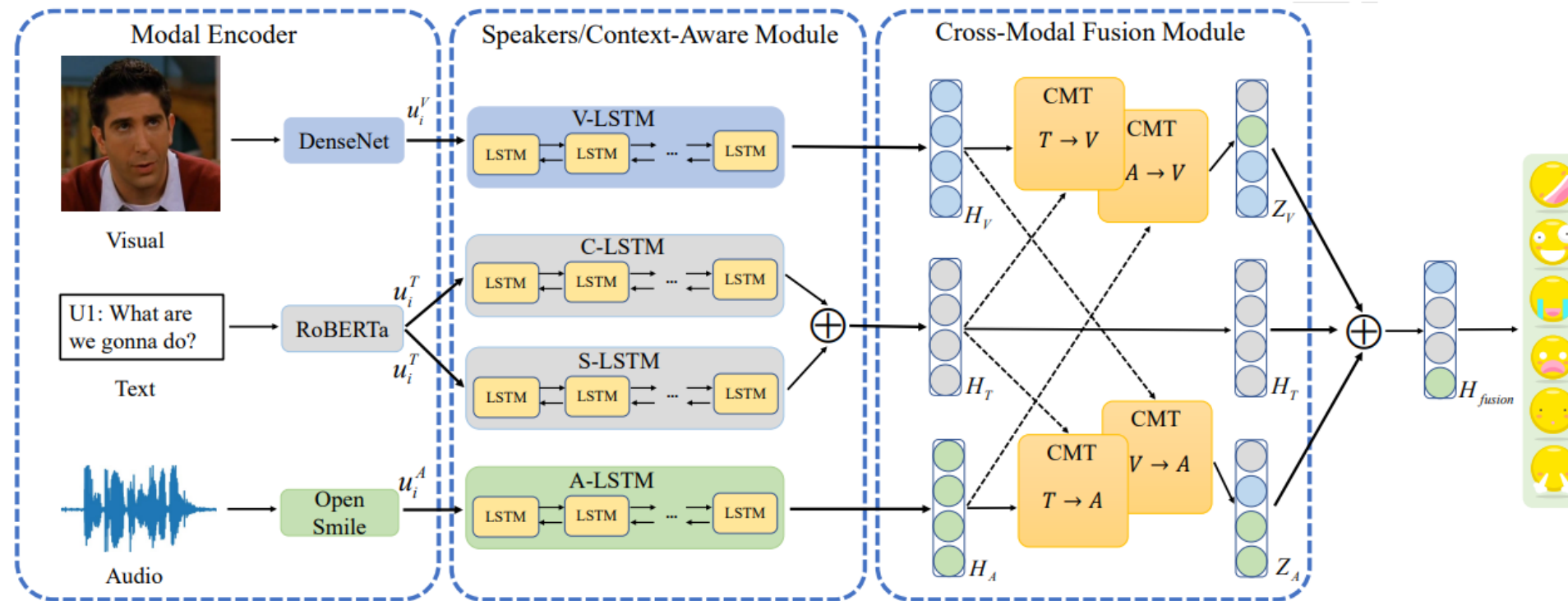


Figure 2: Overall architecture of the proposed MMTr.