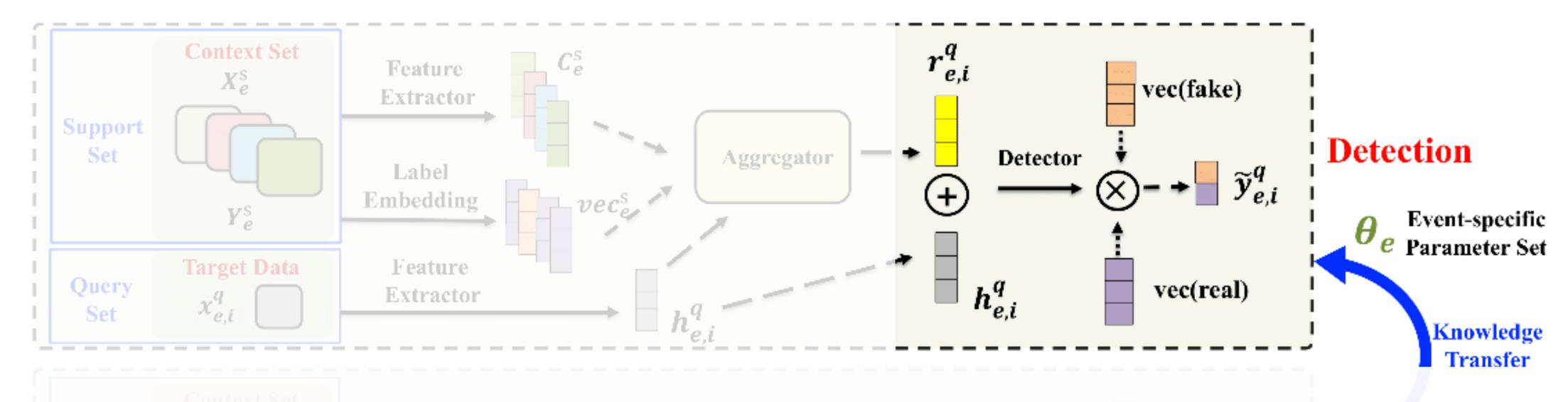
Methodology

Neural Network Architecture



- Thereafter both context embedding and target feature vector are fed into detector to output a vector.
- The final prediction is based on the similarities between this output vector and label embeddings.

Methodology

Feature Extractor

- Textual feature extractor
 - Text-CNN
 - Use 300-dimensional FastText pre-trained word-embedding
- Visual feature extractor
 - Pre-trained VGG-19
- On the top of extractors, both add a fully connected layer to adjust dimension to d_{f}
- The output of two extractors are concatenated together to form a feature vector.

