

# Introduction.....

## Event Adversarial Neural Networks (EANN)

- Inspired by adversarial network, use the event discriminator to predict the event auxiliary labels during training stage, and the corresponding loss can be used to estimate the dissimilarities of feature representations among different events.
  - The larger the loss, the lower the dissimilarities.
- fake news takes advantage of multimedia content to mislead readers and gets spread
  - model needs to handle the multi-modal inputs

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## Event Adversarial Neural Networks (EANN)

- The proposed model EANN consists of three main components:
  - multi-modal feature extractor
    - employ CNN to automatically extract features from both textual and visual
  - fake news detector
  - event discriminator
    - multi-modal feature extractor tries to fool the event discriminator to learn the event invariant representations