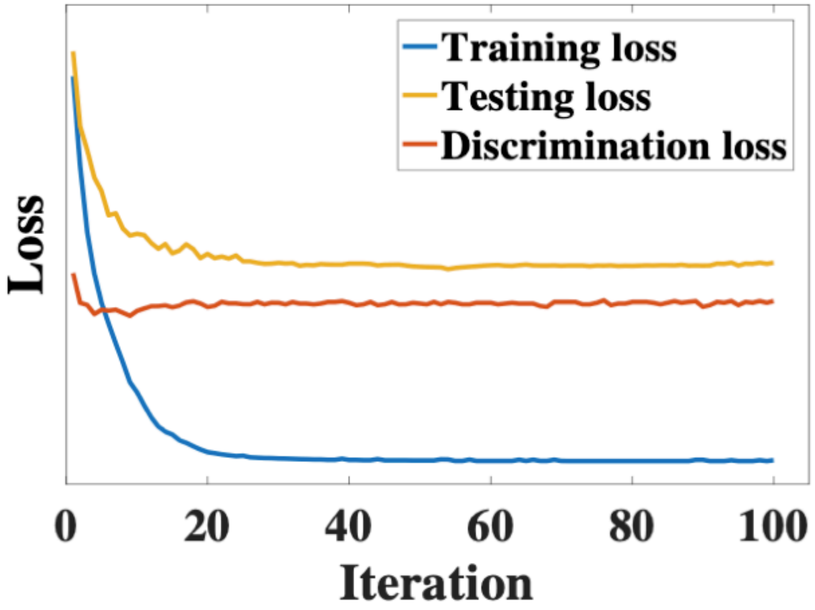
# Experiments.....

## Convergence Analysis

- At the beginning, all of losses decrease.
- Then the discrimination loss increases and stabilizes at a certain level.
  - Decreasing in the beginning represents the event discriminator detecting the event-specific info in the feature.
  - the feature representation tend to be event invariant by the minimax game, specific info is removed incrementally, and the discrimination loss increases over the time.
- Then all losses smoothly converge, means that a certain level of equilibrium have been achieved.



# Conclusions and Contribution

- Study the problem of multi-modal content fake news detection
- Overcome the major challenge of fake news detection stems from newly emerged events on which existing approaches only showed unsatisfactory performance.
- First to propose a novel Event Adversarial Neural Network framework which can learn transferable features for unseen events.
- EANN models is a general framework, can be easily replace by different model designed for feature extractions.