Robust Graph Convolutional Networks via Edge Dithering

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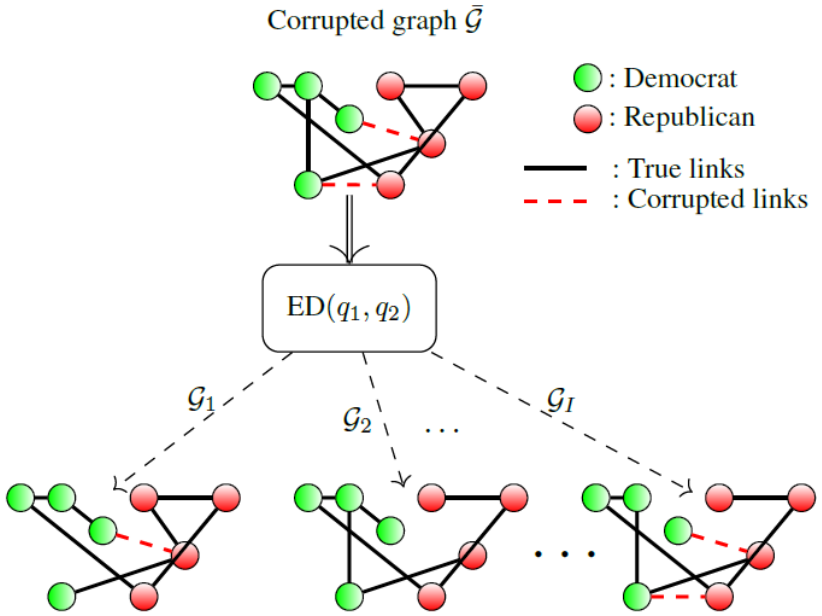
- **Graph convolutional networks (GCNs) under attack**
  - GCNs are vulnerable to adversarial attacks [ZG19]

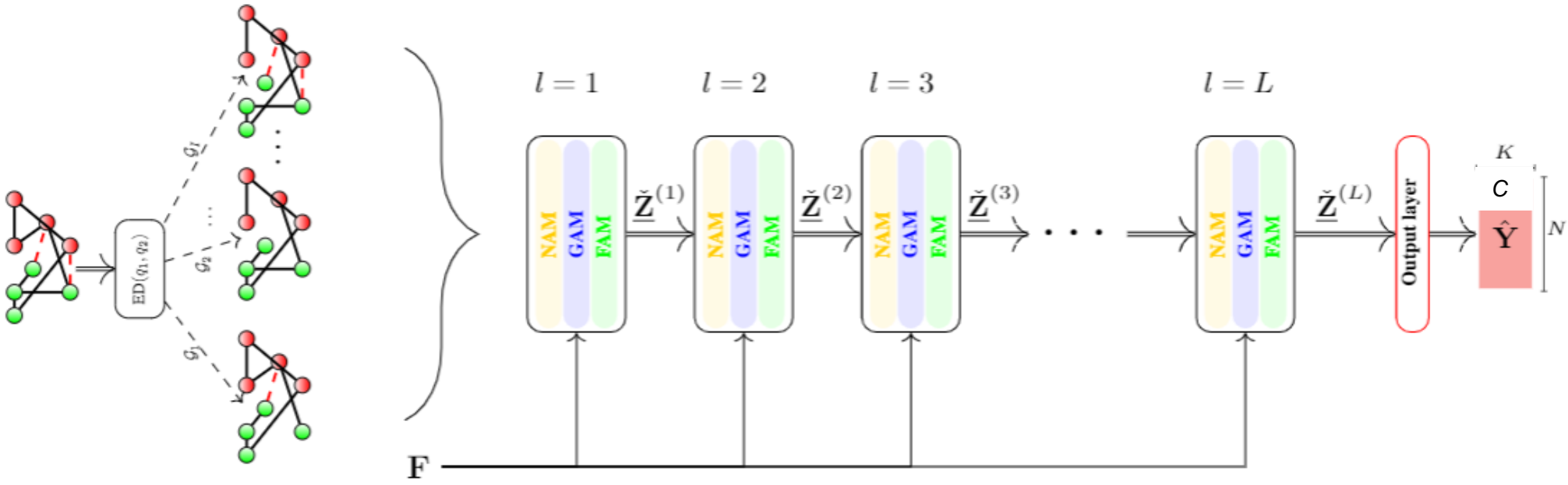
Q: How to robustify semi-supervised learning (SSL)?

Idea: Use dithering to randomize the edge perturbations



Tensor-GCN

- **Given the multiple auxiliary graphs, employ an adaptive GCN for SSL**
  - Three modules to process the dithered graphs



Thank you!