## Opposition report to Lodovico Giaretta's presentation

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## 1 Opposition

In this seminar, Lodovico Giaretta presented three papers related to graph representation learning and graph neural networks [1–3]. Given the selection of the papers and the presentation of Lodovico during the seminar my opposition is the following:

- The three selected papers are very relevant. Each paper provides a novel graph neural network model that learns node embeddings on dynamic graphs.
- Lodovico had a clear understanding of the strong and weak points of each approach. He could perform a nice comparison between the proposed approaches and address the reasons which method achieves better performance.
- Given his expertise, Lodovico could answer all the questions that followed after his presentation without any problem.
- Despite the technical feasibility of each model, Lodovico put specific emphasis on the presentation of each paper, and he discussed the parts of each paper that was unclear.

## References

- Fathy, A., Li, K.: Temporalgat: Attention-based dynamic graph representation learning. In: Advances in Knowledge Discovery and Data Mining. pp. 413–423 (2020)
- Goyal, P., Chhetri, S.R., Canedo, A.: dyngraph2vec: Capturing network dynamics using dynamic graph representation learning. Knowledge-Based Systems 187, 104816 (2020)
- Sankar, A., Wu, Y., Gou, L., Zhang, W., Yang, H.: Dysat: Deep neural representation learning on dynamic graphs via self-attention networks. In: WSDM. p. 519–527 (2020)