

Representation Learning on Graphs

- to perform machine learning on graphs encoding of graph structure is needed
- there exists a bunch of methods to extract features (e.g. vectors) for nodes, edges and/or (sub)graphs
- Tasks:
 1. give short introduction to graph learning and representation learning on graphs
 2. either give overview on existing methods **or** pick one method to give a more detailed introduction
- starting reference: Representation Learning on Graphs: Methods and Applications. [W. L. Hamilton, R. Ying, J. Leskovec. 2018]

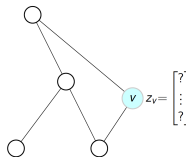


Figure 1: Node embedding

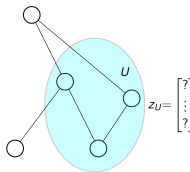


Figure 2: Graph embedding