A

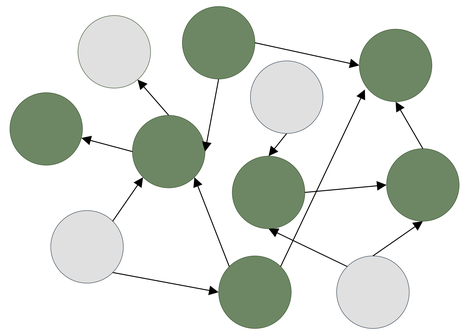
Expectation Maximization and Ensemble Structure Learning in the Presence of Latent Variables

USE CASE: The Identification and Progression Tracking of Alzheimer's Disease

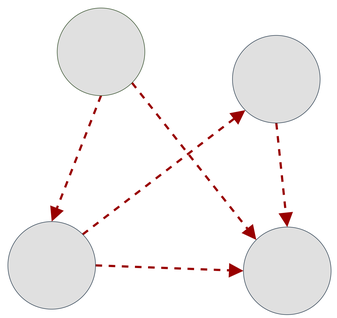
C

Method

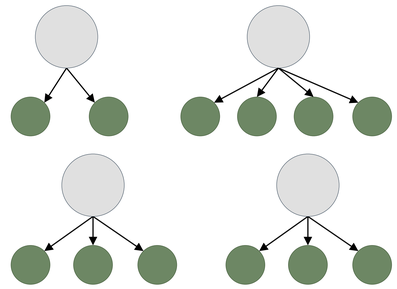
Proposed underlying true distribution **M*** as a static Bayesian Network



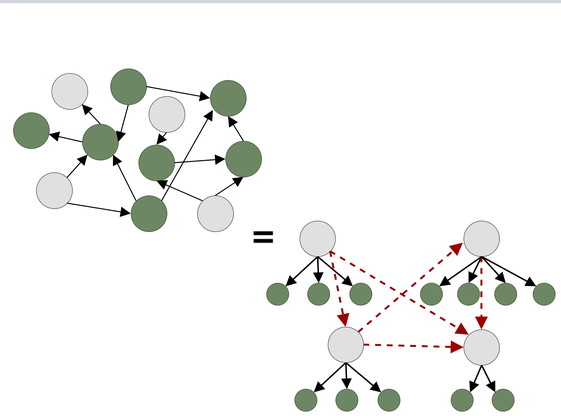
We learn the structure **M** between latent variables and estimate the parameters



Latent variables are **relearned** from the observable data using EM Clustering



We then compare the learned structure **M** against **M*** using KL Divergence



EM & STRUCTURE LEARNING IN THE PRESENCE OF LATENT VARIABLES
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