

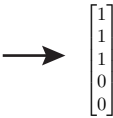
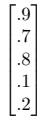
Initial graph
at time t .



Matrix of data
attributes X_t , possibly
concatenated with
information about
graph



Statistical model
trained in advance
outputs probability of
matching for each
node

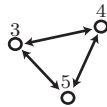


Probabilities
are thresholded.
Nodes with 1
are selected to
be cleared.

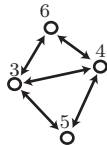


Integer programming
solver finds a
maximal matching
among selected nodes

$\{1,2\}$



$t+1$



Nodes are cleared
according to solution.
Model is allowed to
evolve to next period,
and the next iteration
starts.