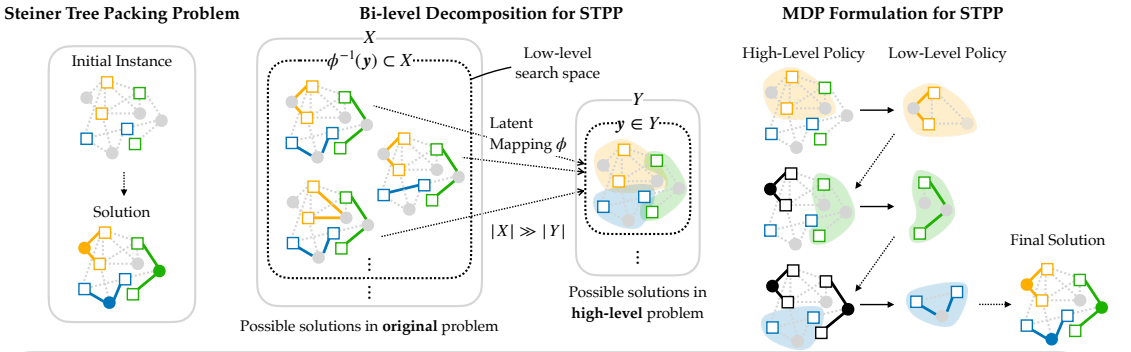

Steiner Tree Packing Problem
Initial Instance
Solution
Bi-level Decomposition for STPP
X
$\phi^{-1}(y) \subset X$
Low-level search space
Latent Mapping ϕ
$|X| \gg |Y|$
Y
$y \in Y$
Possible solutions in **original** problem
Possible solutions in **high-level** problem
MDP Formulation for STPP
High-Level Policy
Low-Level Policy
Final Solution
Terminals
Low-level action
Non-terminal nodes
High-level action (shaded region)
Partial solution