

Subroutine: $SIP(p)$

Date

No.

$$\mu_i(1) \propto \left(1 - \rho \prod_{b \in C^+(i)} (1 - \eta_{b \rightarrow i}) \right) \prod_{b \in C^-(i)} (1 - \eta_{b \rightarrow i})$$

$$\mu_i(0) \propto \left(1 - \rho \prod_{b \in C^-(i)} (1 - \eta_{b \rightarrow i}) \right) \prod_{b \in C^+(i)} (1 - \eta_{b \rightarrow i})$$

$$\mu_i(*) \propto \rho \prod_{b \in C^+(i)} (1 - \eta_{b \rightarrow i}) \prod_{b \in C^-(i)} (1 - \eta_{b \rightarrow i})$$

Normalize $(\mu_i(1), \mu_i(0), \mu_i(*))$

$$\text{maxbias}_i = \max \{ |\mu_i(1) - \mu_i(0)| \}$$

$$\hat{i} = \arg \max_i \{ |\mu_i(1) - \mu_i(0)| \}$$

if $\text{maxbias} = 0$

return trivial cover (all *)

else

$$\text{return } [\hat{i}, \mu_{\hat{i}}(1) > \mu_{\hat{i}}(0)]$$