Finding the Mean Human Connectome

Statistical Decision Theoretic

Sample Space $\{0,1\}^{n\times n} = \mathcal{A}$

Model $P(u \sim v) = P_{uv}$, $a_{uv} \sim Bern(P_{uv})$

Action Space $(0,1)^{n\times n} = \Theta$ (mean)

Decision Rule Class $f : \mathcal{A} \to \Theta$, $f = MSE$

Loss Function $l : \mathcal{A} \times \Theta \to \mathbb{R}_+$

Risk Function $R = E[\ell]$