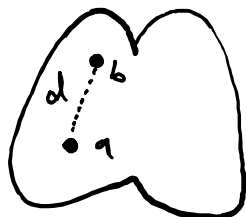


Fig-9

Monday, September 27, 2021

5:48 PM



$$\left\{ \begin{array}{l} d_{ab}^{(phys)} = \text{euclidean physiological distance (normalize to } [0,1]) \\ d_{ab}^{(func)} := \frac{1}{2} (1 - \cos(\gamma_a, \gamma_b)) \in [0,1] \\ \text{define} \\ \xi := \left[d_{ab}^{(phys)} \right]^{\eta} \left[d_{ab}^{(func)} \right]^{-\gamma}, \text{ for positive } \eta, \gamma \end{array} \right.$$

find nodes a, b that have large ξ

what patterns emerge?
relationship to entropy?

Expectations

① nodes with large entropy are more likely to be functionally close to regions at distance

② nodes with small entropy and large degree only have local short range friends (on average)

