CP detection algorithm

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| --- | --- | --- | --- | --- |
| .BE |  | Undirected | Unweighted | Same CP pair |
| .MINRES |  | Undirected | Unweighted | Same CP pair |
| .SBM |  | Undirected | Unweighted | Same CP pair |
| .LowRankCore |  |  | Unweighted/Weighted | Same CP pair |
| .LapCore |  |  | Unweighted/Weighted | Same CP pair |
| .LapSgnCore |  |  | Unweighted/Weighted | Same CP pair |
| .Rambach\* | Continuous CP |  | Unweighted/Weighted | Same CP pair |
| .Rossa | Continuous CP |  | Unweighted/Weighted | Same CP pair |
| .Surprise |  | Undirected | Unweighted | Same CP pair |
| .Divisive | 1. Partition into communities by Louvain algorithm 2. Partition each community into CP by BE algorithm | Undirected | Unweighted | Multiple CP |
| .KM\_ER | Erdos-Renyi random graph used as null model |  | Unweighted/Weighted | Multiple CP |
| .KM\_config | Configuration model used as null model |  | Unweighted/Weighted | Multiple CP |

\*label switching/simulated annealing

Statistical Test: to compute significance of individual CP pairs

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| --- | --- | --- | --- | --- |
| .qstest | 1. Erdos-Renyi random graph used as null model 2. Configuration model used as null model |  |  |  |