**Additional file 8.**

**Table 8.1** Unweighted super-matrixes.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| $$ω\_{u}$$ | E1 | E2 | E3 | E4 | I1 | I2 | I3 | T1 | T2 | T3 | T4 |
| E1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.272 | 0.3090 | 0 | 0 |
| E2 | 0 | 1 | 1 | 1 | 0 | 0 | 0.3333 | 0 | 0 | 0 | 0 |
| E3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| I1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0.1570 | 0.1095 | 0.1220 | 0 |
| I2 | 0.5385 | 0 | 0 | 0 | 0 | 1 | 0.6667 | 0.4829 | 0.5816 | 0.5584 | 1 |
| I3 | 0 | 1 | 0 | 0 | 0 | 0.75 | 1 | 0 | 0 | 0 | 0 |
| T1 | 0.1210 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| T2 | 0.1210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| T3 | 0.2196 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| T4 | 0 | 0 | 0 | 0 | 0 | 0.25 | 0 | 0.0882 | 0 | 0.3196 | 1 |