

FREEMAN BETWEENNESS CENTRALITY

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Input dataset:  
Sota\Q4\Q4)

Q4 (C:\Users\Sota\Desktop\Questionario fase 1

Important note: This routine cannot handle valued data, so it binarizes your data automatically.  
It DOES handle directed (non-symmetric) data, so it does NOT symmetrize.

Un-normalized centralization: 8116.817

|    |      | 1           | 2            |
|----|------|-------------|--------------|
|    |      | Betweenness | nBetweenness |
| 9  | E4   | 220.252     | 12.790       |
| 14 | E9   | 193.589     | 11.242       |
| 1  | M1   | 177.860     | 10.329       |
| 7  | E2   | 163.268     | 9.481        |
| 3  | M3   | 151.545     | 8.801        |
| 10 | E5   | 51.818      | 3.009        |
| 13 | E8   | 47.706      | 2.770        |
| 30 | A2   | 46.315      | 2.690        |
| 18 | E13  | 45.586      | 2.647        |
| 31 | A3   | 36.282      | 2.107        |
| 32 | A4   | 31.264      | 1.816        |
| 28 | OT10 | 27.626      | 1.604        |
| 8  | E3   | 19.053      | 1.106        |
| 21 | OT3  | 17.809      | 1.034        |
| 29 | A1   | 11.813      | 0.686        |
| 22 | OT4  | 11.473      | 0.666        |
| 39 | A11  | 10.228      | 0.594        |
| 27 | OT9  | 10.085      | 0.586        |
| 6  | E1   | 9.008       | 0.523        |
| 16 | E11  | 7.002       | 0.407        |
| 37 | A9   | 6.996       | 0.406        |
| 12 | E7   | 6.671       | 0.387        |
| 23 | OT5  | 6.410       | 0.372        |

|    |     |       |       |
|----|-----|-------|-------|
| 24 | OT6 | 5.189 | 0.301 |
| 11 | E6  | 4.626 | 0.269 |
| 15 | E10 | 4.551 | 0.264 |
| 20 | OT2 | 4.287 | 0.249 |
| 17 | E12 | 4.113 | 0.239 |
| 25 | OT7 | 3.042 | 0.177 |
| 40 | A12 | 2.968 | 0.172 |
| 26 | OT8 | 2.724 | 0.158 |
| 2  | M2  | 2.634 | 0.153 |
| 41 | A13 | 2.137 | 0.124 |
| 38 | A10 | 1.483 | 0.086 |
| 36 | A8  | 1.207 | 0.070 |
| 35 | A7  | 1.186 | 0.069 |
| 33 | A5  | 1.181 | 0.069 |
| 34 | A6  | 0.982 | 0.057 |
| 4  | M4  | 0.743 | 0.043 |
| 43 | A15 | 0.733 | 0.043 |
| 42 | A14 | 0.265 | 0.015 |
| 5  | M5  | 0.243 | 0.014 |
| 19 | OT1 | 0.045 | 0.003 |

DESCRIPTIVE STATISTICS FOR EACH MEASURE

|    |          | 1           | 2            |
|----|----------|-------------|--------------|
|    |          | Betweenness | nBetweenness |
|    |          | -----       | -----        |
| 1  | Mean     | 31.488      | 1.829        |
| 2  | Std Dev  | 56.737      | 3.295        |
| 3  | Sum      | 1354.000    | 78.630       |
| 4  | Variance | 3219.125    | 10.856       |
| 5  | SSQ      | 181057.625  | 610.591      |
| 6  | MCSSQ    | 138422.375  | 466.810      |
| 7  | Euc Norm | 425.509     | 24.710       |
| 8  | Minimum  | 0.045       | 0.003        |
| 9  | Maximum  | 220.252     | 12.790       |
| 10 | N of Obs | 43.000      | 43.000       |

Network Centralization Index = 11.22%

Output actor-by-centrality measure matrix saved as dataset Q4-bet

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Running time: 00:00:01  
Output generated: 16 Set 12 14:44:41  
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