Supplementary 1: Centrality indices in the Organizations

| Node Number | Node Name | In-degree | Out-degree | Degree | Weighted  In-Degree | Weighted Out-Degree | Weighted Degree | Eigenvector | Closeness | Betweenness | Modularity class |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Ministry of Defense and Armed Forces Logistic (MDAFL) | 74 | 82 | 156 | 171.55 | 235.00 | 406.55 | 0.91 | 0.98 | 0.90 | 1 |
| 2 | Ministry of Culture and Islamic Guidance | 57 | 67 | 124 | 118.00 | 143.36 | 261.36 | 0.74 | 0.83 | 0.46 | 0 |
| 3 | Ministry of Interior, Provincial government, Governorate, Regional government (MoI) | 80 | 81 | 161 | 199.91 | 225.18 | 425.09 | 0.98 | 0.97 | 0.87 | 2 |
| 4 | Iranian Meteorological Society | 60 | 62 | 122 | 145.09 | 200.18 | 345.27 | 0.78 | 0.79 | 0.26 | 1 |
| 5 | National Fire and Safety Service of Iran | 66 | 69 | 135 | 153.73 | 177.18 | 330.91 | 0.83 | 0.85 | 0.34 | 1 |
| 6 | Ministry of Education | 38 | 39 | 77 | 58.45 | 70.82 | 129.27 | 0.51 | 0.65 | 0.04 | 0 |
| 7 | Banks | 58 | 59 | 117 | 131.27 | 135.36 | 266.64 | 0.77 | 0.77 | 0.13 | 2 |
| 8 | Iran Small Industries and Industrial Parks Organization | 57 | 47 | 104 | 96.18 | 86.36 | 182.55 | 0.77 | 0.69 | 0.08 | 0 |
| 9 | Islamic Revolution Housing Foundation | 67 | 65 | 132 | 130.18 | 121.55 | 251.73 | 0.88 | 0.82 | 0.21 | 2 |
| 10 | Private Hospitals | 50 | 52 | 102 | 100.00 | 108.55 | 208.55 | 0.63 | 0.72 | 0.16 | 0 |
| 11 | International Institute of Earthquake Engineering and Seismology | 63 | 56 | 119 | 148.09 | 147.36 | 295.45 | 0.82 | 0.75 | 0.09 | 1 |
| 12 | Road Maintenance & Transportation Organization | 61 | 65 | 126 | 143.00 | 147.45 | 290.45 | 0.80 | 0.82 | 0.17 | 1 |
| 13 | Jahād-e Dāneshgāhi | 70 | 65 | 135 | 107.55 | 122.00 | 229.55 | 0.87 | 0.82 | 0.36 | 0 |
| 14 | Universities of Medical Sciences ((UMS) | 76 | 75 | 151 | 183.00 | 208.00 | 391.00 | 0.93 | 0.90 | 0.59 | 0 |
| 15 | Research Centers | 80 | 76 | 156 | 208.09 | 168.09 | 376.18 | 0.97 | 0.91 | 0.62 | 1 |
| 16 | Iranian Red Crescent Society and Related Subsets (IRCS) | 78 | 84 | 162 | 238.36 | 228.00 | 466.36 | 0.95 | 1.00 | 1.00 | 0 |

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| Node Number | Node Name | In-degree | Out-degree | Degree | Weighted  In-Degree | Weighted  Out-Degree | Weighted Degree | Eigenvector | Closeness | Betweenness | Modularity class |
| 17 | State Welfare Organization of Iran | 71 | 66 | 137 | 158.91 | 154.91 | 313.82 | 0.87 | 0.82 | 0.47 | 0 |
| 18 | Social Security Organization | 65 | 73 | 138 | 138.27 | 174.00 | 312.27 | 0.80 | 0.88 | 0.47 | 0 |
| 19 | Islamic Development Organization of Iran | 62 | 58 | 120 | 139.18 | 127.64 | 266.82 | 0.77 | 0.76 | 0.28 | 0 |
| 20 | Islamic Republic of Iran Broadcasting IRIB) | 83 | 78 | 161 | 211.27 | 226.00 | 437.27 | 0.99 | 0.93 | 0.89 | 0 |
| 21 | Department of Environment | 67 | 67 | 134 | 172.27 | 178.64 | 350.91 | 0.84 | 0.83 | 0.26 | 1 |
| 22 | Atomic Energy Organization of Iran | 59 | 61 | 120 | 156.45 | 154.09 | 310.55 | 0.77 | 0.79 | 0.11 | 1 |
| 23 | Community Based Organizations (CBOs) | 78 | 51 | 129 | 189.45 | 100.27 | 289.73 | 0.95 | 0.72 | 0.45 | 0 |
| 24 | Ports and Maritime Organization | 48 | 56 | 104 | 106.45 | 122.00 | 228.45 | 0.63 | 0.75 | 0.14 | 1 |
| 25 | khatam-al Anbiya Construction Headquarters | 82 | 75 | 157 | 197.09 | 192.36 | 389.45 | 0.98 | 0.90 | 0.57 | 1 |
| 26 | The Center for Urban & Architectural Studies & Research | 71 | 63 | 134 | 168.27 | 133.27 | 301.55 | 0.90 | 0.80 | 0.24 | 2 |
| 27 | Pasteur Institute or Iran | 33 | 48 | 81 | 84.73 | 128.55 | 213.27 | 0.42 | 0.70 | 0.06 | 0 |
| 28 | The Guardian Council | 77 | 81 | 158 | 196.36 | 191.64 | 388.00 | 0.95 | 0.97 | 0.66 | 2 |
| 29 | National Iranian Oil Refining and Distribution Company | 58 | 66 | 124 | 138.82 | 149.36 | 288.18 | 0.74 | 0.82 | 0.15 | 1 |
| 30 | National Disaster Management Organization (NDMO) | 84 | 82 | 166 | 330.55 | 298.82 | 629.36 | 1.00 | 0.98 | 0.95 | 0 |
| 31 | Forests, Range and Watershed Management Organization | 62 | 57 | 119 | 125.27 | 120.00 | 245.27 | 0.81 | 0.76 | 0.15 | 1 |
| 32 | Nursing Organization | 28 | 45 | 73 | 50.73 | 85.91 | 136.64 | 0.35 | 0.68 | 0.03 | 0 |

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| Node Number | Node Name | In-degree | Out-degree | Degree | Weighted  In-Degree | Weighted  Out-Degree | Weighted Degree | Eigenvector | Closeness | Betweenness | Modularity class |
| 33 | Iran Medical Council | 29 | 43 | 72 | 52.09 | 96.00 | 148.09 | 0.37 | 0.67 | 0.03 | 0 |
| 34 | Engineering Organization | 61 | 64 | 125 | 114.09 | 150.00 | 264.09 | 0.79 | 0.81 | 0.20 | 2 |
| 35 | International Organizations | 75 | 76 | 151 | 200.91 | 186.82 | 387.73 | 0.91 | 0.91 | 0.76 | 1 |
| 36 | Various Insurance Organizations | 72 | 80 | 152 | 142.45 | 173.09 | 315.55 | 0.88 | 0.95 | 0.72 | 0 |
| 37 | Mountaineering Federation | 20 | 49 | 69 | 31.27 | 71.82 | 103.09 | 0.28 | 0.71 | 0.04 | 1 |
| 38 | Iran Meteorological Organization | 65 | 66 | 131 | 158.91 | 167.36 | 326.27 | 0.84 | 0.82 | 0.30 | 1 |
| 39 | Islamic Revolutionary Guard Corps | 78 | 74 | 152 | 190.55 | 171.91 | 362.45 | 0.95 | 0.89 | 0.50 | 1 |
| 40 | Iran Municipalities and Village Administrators | 75 | 72 | 147 | 178.73 | 162.82 | 341.55 | 0.94 | 0.88 | 0.38 | 2 |
| 41 | City and Village Councils of Iran | 75 | 73 | 148 | 171.73 | 150.45 | 322.18 | 0.94 | 0.88 | 0.45 | 2 |
| 42 | Imam Khomeini Relief Foundation | 65 | 52 | 117 | 132.73 | 99.27 | 232.00 | 0.80 | 0.72 | 0.35 | 0 |
| 43 | Out of Health System Research Centers | 81 | 75 | 156 | 189.55 | 184.18 | 373.73 | 0.97 | 0.90 | 0.60 | 1 |
| 44 | Climatological Research Institute | 67 | 68 | 135 | 179.00 | 148.73 | 327.73 | 0.85 | 0.84 | 0.33 | 1 |
| 45 | Civil Defense Organization (CDO) | 83 | 80 | 163 | 318.27 | 263.36 | 581.64 | 1.00 | 0.95 | 0.74 | 1 |
| 46 | Law Enforcement Force of the Islamic Republic of Iran | 80 | 75 | 155 | 201.73 | 194.00 | 395.73 | 0.96 | 0.90 | 0.53 | 1 |
| 47 | Ministry of Health and Medical Education (MoHME) | 80 | 82 | 162 | 209.82 | 247.27 | 457.09 | 0.96 | 0.98 | 0.88 | 0 |
| 48 | Ministry of Cooperatives Labor and Social Welfare | 71 | 65 | 136 | 132.82 | 124.27 | 257.09 | 0.89 | 0.82 | 0.24 | 0 |

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| Node Number | Node Name | In-degree | Out-degree | Degree | Weighted  In-Degree | Weighted  Out-Degree | Weighted Degree | Eigenvector | Closeness | Betweenness | Modularity class |
| 49 | Ministry of Agriculture | 67 | 68 | 135 | 154.73 | 162.55 | 317.27 | 0.86 | 0.84 | 0.20 | 1 |
| 50 | Ministry of Science, Research and Technology | 79 | 73 | 152 | 195.91 | 185.00 | 380.91 | 0.97 | 0.88 | 0.43 | 1 |
| 51 | The Organization for Mobilization of the Oppressed | 68 | 50 | 118 | 121.91 | 87.00 | 208.91 | 0.85 | 0.71 | 0.16 | 0 |
| 52 | Iran Civil Aviation Organization | 42 | 44 | 86 | 105.00 | 112.91 | 217.91 | 0.56 | 0.68 | 0.03 | 1 |
| 53 | Ministry of Economic Affairs and Finance | 59 | 50 | 109 | 110.18 | 100.45 | 210.64 | 0.75 | 0.71 | 0.12 | 2 |
| 54 | Life Saving and Diving Federation | 12 | 31 | 43 | 18.64 | 47.09 | 65.73 | 0.16 | 0.61 | 0.01 | 1 |
| 55 | Iranian Blood Transfusion Organization | 37 | 40 | 77 | 85.55 | 101.73 | 187.27 | 0.46 | 0.66 | 0.15 | 0 |
| 56 | Real Estate Registration Organization of Iran | 33 | 50 | 83 | 56.18 | 94.27 | 150.45 | 0.43 | 0.71 | 0.08 | 2 |
| 57 | Iranian Artists Forum | 13 | 15 | 28 | 27.36 | 31.27 | 58.64 | 0.15 | 0.55 | 0.01 | 0 |
| 58 | National Organization for Civil Registration | 33 | 35 | 68 | 51.55 | 57.18 | 108.73 | 0.42 | 0.63 | 0.03 | 2 |
| 59 | Ministry of Roads and Urban Development | 69 | 64 | 133 | 171.55 | 136.91 | 308.45 | 0.89 | 0.81 | 0.24 | 2 |
| 60 | Ministry of Industry, Mine and Trade | 69 | 71 | 140 | 166.09 | 163.18 | 329.27 | 0.89 | 0.87 | 0.27 | 1 |
| 61 | Ministry of Petroleum | 63 | 64 | 127 | 157.09 | 154.82 | 311.91 | 0.82 | 0.81 | 0.15 | 1 |
| 62 | Ministry of Energy | 74 | 69 | 143 | 181.18 | 152.18 | 333.36 | 0.91 | 0.85 | 0.36 | 1 |
| 63 | Statistical Center of Iran | 74 | 61 | 135 | 166.73 | 130.09 | 296.82 | 0.91 | 0.79 | 0.29 | 2 |
| 64 | Mobilizing the Medical Society Organization | 80 | 61 | 141 | 164.91 | 118.55 | 283.45 | 0.97 | 0.79 | 0.45 | 0 |

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| Node Number | Node Name | In-degree | Out-degree | Degree | Weighted  In-Degree | Weighted Out-Degree | Weighted Degree | Eigenvector | Closeness | Betweenness | Modularity class |
| 65 | Telecommunication Company of Iran | 75 | 57 | 132 | 172.73 | 136.18 | 308.91 | 0.91 | 0.76 | 0.25 | 1 |
| 66 | Center for Strategic Studies | 78 | 70 | 148 | 254.55 | 214.09 | 468.64 | 0.96 | 0.86 | 0.41 | 1 |
| 67 | Ministry of Foreign Affairs | 56 | 58 | 114 | 126.18 | 140.73 | 266.91 | 0.70 | 0.76 | 0.16 | 1 |
| 68 | Iran Water Resources Management | 67 | 60 | 127 | 160.73 | 136.73 | 297.45 | 0.85 | 0.78 | 0.26 | 1 |
| 69 | Geological Survey and Mineral Exploration | 57 | 53 | 110 | 143.73 | 124.36 | 268.09 | 0.75 | 0.73 | 0.07 | 1 |
| 70 | National Cartographic Center | 64 | 68 | 132 | 175.09 | 171.45 | 346.55 | 0.82 | 0.84 | 0.26 | 1 |
| 71 | Plan and Budget Organization (PBO) | 77 | 84 | 161 | 185.09 | 251.82 | 436.91 | 0.96 | 1.00 | 0.93 | 2 |
| 72 | Friday Imams Policy Council | 37 | 44 | 81 | 69.36 | 81.18 | 150.55 | 0.48 | 0.68 | 0.11 | 0 |
| 73 | Technology and Innovation Cooperation Center | 82 | 77 | 159 | 238.91 | 197.09 | 436.00 | 0.99 | 0.92 | 0.71 | 1 |
| 74 | Iranian Legal Medicine Organization | 41 | 50 | 91 | 86.36 | 107.45 | 193.82 | 0.49 | 0.71 | 0.18 | 0 |
| 75 | Psychology and Counseling Organization | 32 | 48 | 80 | 50.82 | 91.36 | 142.18 | 0.41 | 0.70 | 0.10 | 0 |
| 76 | Ministry of Communication and Information Technology (MCIT) | 83 | 80 | 163 | 242.27 | 231.36 | 473.64 | 0.99 | 0.95 | 1.00 | 1 |
| 77 | the commission for health in the parliament | 79 | 82 | 161 | 204.82 | 238.27 | 443.09 | 0.97 | 0.98 | 0.76 | 0 |
| 78 | Iranian Agricultural Economics Society | 65 | 69 | 134 | 149.27 | 160.82 | 310.09 | 0.84 | 0.85 | 0.22 | 1 |
| 79 | General Directorate of Endowments and Charity Affairs | 75 | 68 | 143 | 166.27 | 142.18 | 308.45 | 0.91 | 0.84 | 0.58 | 0 |
| 80 | Iran Airports and Air Navigation Company | 46 | 52 | 98 | 101.27 | 106.73 | 208.00 | 0.60 | 0.72 | 0.07 | 1 |

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| Node Number | Node Name | In-degree | Out-degree | Degree | Weighted  In-Degree | Weighted  Out-Degree | Weighted Degree | Eigenvector | Closeness | Betweenness | Modularity class |
| 81 | Islamic Republic of Iran Army | 78 | 77 | 155 | 205.36 | 175.55 | 380.91 | 0.94 | 0.92 | 0.65 | 1 |
| 82 | The Islamic Republic of Iran Railways | 70 | 60 | 130 | 149.09 | 111.91 | 261.00 | 0.89 | 0.78 | 0.18 | 1 |
| 83 | General Inspection Organization | 75 | 74 | 149 | 151.73 | 142.64 | 294.36 | 0.93 | 0.89 | 0.61 | 2 |
| 84 | Judicial System | 42 | 65 | 107 | 80.36 | 154.45 | 234.82 | 0.56 | 0.82 | 0.15 | 2 |
| 85 | Militia Volunteer Force | 79 | 63 | 142 | 157.55 | 102.45 | 260.00 | 0.96 | 0.80 | 0.49 | 0 |