Results for the crawled network graphs

Network Sizes:

|  |  |
| --- | --- |
|  | Number of nodes |
| Vegan | 11,015 |
| NEOS | 8,277 |
| FPOE | 21,291 |
| BVB | 21,464 |
| Schalke | 13,646 |
| Covid | 50,133 |
| Globaldev II | 459 |
| datamining | 2,013 |
| Calfire | 3,580 |
| climateaction | 15,299 |
| Bioinformatics | 6,003 |
| Citizenscience | 2,464 |
| Digitalhumanities | 1,239 |
| smarthome | 2,932 |

Chi2 Distribution Parameters:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Mutual | | | In | | | | Out | | |
|  | df | loc | scale | df | loc | scale | df | | loc | scale |
| Vegan | 0.36 | 0.49 | 50 | 0.55 | 0.49 | 30 | 0.22 | | 0.49 | 75 |
| NEOS | 0.4 | 0.49 | 80 | 0.9 | 0.49 | 70 | 0.3 | | 0.49 | 210 |
| FPOE | 0.5 | 0.49 | 90 | 1.0 | 0.49 | 70 | 0.35 | | 0.49 | 200 |
| BVB | 0.2 | 0.49 | 35 | 0.9 | 0.49 | 20 | 0.1 | | 0.49 | 180 |
| Schalke | 0.3 | 0.49 | 45 | 0.8 | 0.49 | 30 | 0.2 | | 0.49 | 120 |
| Covid | 0.4 | 0.49 | 90 | 0.7 | 0.49 | 90 | 0.3 | | 0.49 | 210 |
| Globaldev II | 0.75 | 0.49 | 7 | 1.4 | 0.49 | 4 | 0.2 | | 0.49 | 28 |
| datamining | 0.2 | 0.49 | 22 | 0.25 | 0.49 | 16 | 0.2 | | 0.49 | 20 |
| Calfire | 0.25 | 0.49 | 17 | 1 | 0.49 | 10 | 0.1 | | 0.49 | 100 |
| climateaction | 0.4 | 0.49 | 60 | 0.8 | 0.49 | 25 | 0.2 | | 0.49 | 100 |
| Bioinformatics | 0.5 | 0.49 | 34 | 0.8 | 0.49 | 25 | 0.25 | | 0.49 | 80 |
| Citizenscience | 0.4 | 0.49 | 25 | 0.7 | 0.49 | 9 | 0.35 | | 0.49 | 18 |
| Digitalhumanities | 0.8 | 0.49 | 18 | 0.9 | 0.49 | 10 | 0.5 | | 0.49 | 18 |
| smarthome | 0.2 | 0.49 | 40 | 0.4 | 0.49 | 15 | 0.2 | | 0.49 | 30 |

Rank Correlations (Spearman’s Rho):

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Mutual - In | | Mutual - Out | | In - Out | |
|  | Crawled | Generated | Crawled | Generated | Crawled | Generated |
| Vegan | 0.540 | 0.470 | 0.612 | 0.528 | 0.284 | 0.234 |
| NEOS | 0.619 | 0.578 | 0.707 | 0.676 | 0.424 | 0.370 |
| FPOE | 0.630 | 0.604 | 0.697 | 0.660 | 0.395 | 0.369 |
| BVB | 0.420 | 0.345 | 0.605 | 0.474 | 0.349 | 0.266 |
| Schalke | 0.489 | 0.425 | 0.664 | 0.564 | 0.297 | 0.238 |
| Covid | 0.616 | 0.579 | 0.753 | 0.696 | 0.397 | 0.371 |
| Globaldev II | 0.465 | 0.259 | 0.606 | 0.419 | 0.240 | 0.140 |
| datamining | 0.262 | 0.167 | 0.253 | 0.192 | -0.001 | -0.035 |
| Calfire | 0.407 | 0.319 | 0.547 | 0.411 | 0.250 | 0.149 |
| climateaction | 0.586 | 0.523 | 0.584 | 0.503 | 0.400 | 0.337 |
| Bioinformatics | 0.658 | 0.578 | 0.564 | 0.476 | 0.242 | 0.182 |
| Citizenscience | 0.592 | 0.457 | 0.577 | 0.486 | 0.258 | 0.192 |
| Digitalhumanities | 0.656 | 0.544 | 0.611 | 0.496 | 0.267 | 0.170 |
| smarthome | 0.419 | 0.333 | 0.315 | 0.245 | 0.148 | 0.135 |

Properties of crawled networks:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Vegan | NEOS | FPOE | BVB | Schalke | Covid |
| Nodes | 11,015 | 8,277 | 21,291 | 21,464 | 13,646 | 50,133 |
| Edges | 377,457 | 791,905 | 2,570,452 | 530,302 | 517,916 | 4,832,226 |
| Density | 0.0031 | 0.0116 | 0.0057 | 0.0012 | 0.0028 | 0.0019 |
| LSCC | 9,347 | 7,352 | 19,237 | 12,793 | 9,977 | 43,461 |
| LWCC | 10,931 | 8,272 | 21,281 | 21,418 | 13,631 | 49,999 |
| Density\* | 0.0032 | 0.0116 | 0.0057 | 0.0011 | 0.0028 | 0.0019 |
| Avg shortest path | 2.97 | 2.52 | 2.69 | 2.49 | 2.69 | 2.75 |
| Diameter | 11 | 7 | 9 | 10 | 10 | 10 |
| Average CC | 0.201 | 0.339 | 0.285 | 0.266 | 0.244 | 0.198 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Globaldev | Datamining | Calfire | climateaction |
| Nodes | 459 | 2,013 | 3,580 | 15,299 |
| Edges | 5,435 | 18,781 | 54,735 | 692,534 |
| Density | 0.0259 | 0.0046 | 0.0043 | 0.0030 |
| LSCC | 361 | 1,154 | 2,314 | 13,001 |
| LWCC | 452 | 1,912 | 3,570 | 15,288 |
| Density\* | 0.0266 | 0.0051 | 0.0043 | 0.0030 |
| Avg shortest path | 2.40 | 2.65 | 2.34 | 2.65 |
| Diameter | 8 | 11 | 11 | 9 |
| Average CC | 0.354 | 0.260 | 0.277 | 0.319 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | bioinformatics | citizenscience | digitalhumanities | smarthome |
| Nodes | 6,003 | 2,464 | 1,239 | 2,932 |
| Edges | 223,175 | 43,572 | 30,285 | 44,261 |
| Density | 0.0062 | 0.0072 | 0.0197 | 0.0052 |
| LSCC | 5,286 | 2,100 | 1,094 | 1,917 |
| LWCC | 5,964 | 2,443 | 1,224 | 2,797 |
| Density\* | 0.0063 | 0.0073 | 0.0202 | 0.0056 |
| Avg shortest path | 2.70 | 3.04 | 2.68 | 2.41 |
| Diameter | 9 | 10 | 7 | 11 |
| Average CC | 0.234 | 0.321 | 0.303 | 0.310 |