Page rank

One of the crucial attitude of Political manifesto is ranking analysis. Ranking define the importance of each node and could lead us to the fatal parties or ideas which have a profound effect on the political manifest. Generally, ranking analysis refers to page ranking which is introduces by Google for the first time. There are two different algorithm namely: Hits and Pagerank-Nibble that provide the importance of each node in a network. There are two major nodes which play an important role in page rank. Hubs and authorities which authorities are the nodes with the most incoming links and the hubs refers to the nodes with the links to the many authorities. For the political manifesto network we tried to sort the nodes by the pagerank measurement to identify the most important parties. The results for the firs 20 parties is shown in Table. 1.

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| --- | --- | --- | --- |
| Item | Party’s Name | Page Rank | Degree |
| 1 | 'Democratic Peasants’ Party of Germany' | 0.0071579 | 28 |
| 2 | 'Human Shield' | 0.0064549 | 15 |
| 3 | 'Latvian Farmers’ Union' | 0.0064145 | 65 |
| 4 | 'Geneva Citizens' Movement' | 0.0063279 | 1 |
| 5 | 'Alliance of Free Democrats' | 0.0061446 | 7 |
| 6 | 'Popular Unity' | 0.0060599 | 10 |
| 7 | 'Portuguese Communist Party' | 0.005937 | 4 |
| 8 | 'None-of-the-above' | 0.0059335 | 46 |
| 9 | 'Homeland Union - Lithuanian Christian Democrats' | 0.0059093 | 65 |
| 10 | 'Direction-Social Democracy' | 0.0058928 | 27 |
| 11 | 'Alliance of the Christian Democratic People's Front' | 0.0058324 | 80 |
| 12 | 'Radical Political Party' | 0.0057698 | 7 |
| 13 | 'Blue Coalition' | 0.0057555 | 42 |
| 14 | 'Key Coalition' | 0.0056872 | 36 |
| 15 | 'Francophone Christian Social Party and Flemish Christian People’s Party' | 0.0056668 | 3 |
| 16 | 'Communist Party of Spain' | 0.0056051 | 13 |
| 17 | 'Democratic Intervention' | 0.0055033 | 13 |
| 18 | 'People's Party' | 0.0052936 | 10 |
| 19 | 'Centre Democrats' | 0.0052826 | 39 |
| 20 | 'Coalition of Bulgarian Socialist Party' | 0.0052583 | 60 |

Table.1: page-rank for the 20 parties in political manifesto

Regarding Tab. 1. the 'Democratic Peasants’ Party of Germany' has the most ranking value with the value of 0.0071579 which is followed by 'Human Shield' parties with value of 0.0064549. In the other words, by counting the number and quality of ideas to each party we determined the importance of this party due to the importance of ideas pointing to that. In the next chapter, we also define the most important ideas by ranking them regarding number of parties who have the interest in them to complete node importance analysis.