Algorithm – PageRank

- 1: **procedure** PageRank(authors list, adjacency matrix)
- 2: $U \leftarrow \text{authors list}$
- 3: $G \leftarrow \text{adjacency matrix}$
- 4: $p \leftarrow \text{dumping factor}$
- 5: $c \leftarrow \text{sum}(G,1), r \leftarrow \text{sum}(G,2)$
- 6: $D \leftarrow \operatorname{diag}(1./c)$
- 7: Solve system (I pGD)x = e
- 8: $x \leftarrow x/\operatorname{sum}(x)$
- 9: $x \leftarrow \operatorname{sort}(x, '\operatorname{descending'})$
- 10: **return** x