

Graph Centrality of Powerful Florentine Families

Family	Degree	Closeness	Betweenness	Eigenvector	PageRank
Peruzzi	0.2	0.343859649	0.019047619	0.275722437	0.067203222
Bischeri	0.2	0.373333333	0.09047619	0.282794396	0.068180257
Strozzi	0.266666667	0.408333333	0.088888889	0.355973033	0.087226066
Lamberteschi	0.066666667	0.303875969	0	0.088792531	0.030603751
Guadagni	0.266666667	0.435555556	0.220634921	0.289117157	0.097422711
Castellani	0.2	0.362962963	0.047619048	0.259020038	0.068643575
Ridolfi	0.2	0.466666667	0.098412698	0.341554426	0.068885522
Tornabuoni	0.2	0.450574713	0.079365079	0.325846704	0.07057442
Barbadori	0.133333333	0.408333333	0.080952381	0.211705747	0.04980327
Medici	0.4	0.522666667	0.452380952	0.430315426	0.144372098
Albizzi	0.2	0.450574713	0.184126984	0.24396053	0.07833975
Ginori	0.066666667	0.311111111	0	0.074924532	0.03209668
Salviati	0.133333333	0.362962963	0.123809524	0.145920842	0.060696993
Pazzi	0.066666667	0.266666667	0	0.04481494	0.035696529
Acciaiuoli	0.066666667	0.343859649	0	0.13215732	0.030354166
Pucci	0	0	0	1.52E-24	0.00990099

Degree Centrality:	Closeness Centrality:	Betweenness Centrality:	Eigenvector Centrality:	PageRank Centrality:
(Medici, 0.4)	(Medici, 0.523)	(Medici, 0.452)	(Medici, 0.43)	(Medici, 0.144)
(Strozzi, 0.267)	(Ridolfi, 0.467)	(Guadagni, 0.221)	(Strozzi, 0.356)	(Guadagni, 0.097)
(Guadagni, 0.267)	(Tornabuoni, 0.451)	(Albizzi, 0.184)	(Ridolfi, 0.342)	(Strozzi, 0.087)
(Peruzzi, 0.2)	(Albizzi, 0.451)	(Salviati, 0.124)	(Tornabuoni, 0.326)	(Albizzi, 0.078)
(Bischeri, 0.2)	(Guadagni, 0.436)	(Ridolfi, 0.098)	(Guadagni, 0.289)	(Tornabuoni, 0.071)
(Castellani, 0.2)	(Strozzi, 0.408)	(Bischeri, 0.09)	(Bischeri, 0.283)	(Ridolfi, 0.069)
(Ridolfi, 0.2)	(Barbadori, 0.408)	(Strozzi, 0.089)	(Peruzzi, 0.276)	(Castellani, 0.069)
(Tornabuoni, 0.2)	(Bischeri, 0.373)	(Barbadori, 0.081)	(Castellani, 0.259)	(Bischeri, 0.068)
(Albizzi, 0.2)	(Castellani, 0.363)	(Tornabuoni, 0.079)	(Albizzi, 0.244)	(Peruzzi, 0.067)
(Barbadori, 0.133)	(Salviati, 0.363)	(Castellani, 0.048)	(Barbadori, 0.212)	(Salviati, 0.061)
(Salviati, 0.133)	(Peruzzi, 0.344)	(Peruzzi, 0.019)	(Salviati, 0.146)	(Barbadori, 0.05)
(Lamberteschi, 0.067)	(Acciaiuoli, 0.344)	(Lamberteschi, 0.0)	(Acciaiuoli, 0.132)	(Pazzi, 0.036)
(Ginori, 0.067)	(Ginori, 0.311)	(Ginori, 0.0)	(Lamberteschi, 0.089)	(Ginori, 0.032)
(Pazzi, 0.067)	(Lamberteschi, 0.304)	(Pazzi, 0.0)	(Ginori, 0.075)	(Lamberteschi, 0.031)
(Acciaiuoli, 0.067)	(Pazzi, 0.267)	(Acciaiuoli, 0.0)	(Pazzi, 0.045)	(Acciaiuoli, 0.03)
(Pucci, 0.0)	(Pucci, 0.0)	(Pucci, 0.0)	(Pucci, 0.0)	(Pucci, 0.01)

The Medici family leads in every centrality metric, wherein confirming Padgett and Ansell's explanation that the Medici's rise to power correlates with their centrality among the prominent Florentine families. The Medici family gained their level of influence most likely due to their connections to all of these families; by acting as a central bridge between families they were most likely able to utilize their situation to gain power, influence, and money, as well as uphold their political dynasty for longer than most families.

Looking at the scores, I would make an educated guess that the Guadagni family may have been the second most important family, followed closely by the Strozzi family. Both families showed high centrality measures, but the Guadagni family has a higher Closeness, Betweenness, and PageRank centrality score while tied with the Strozzi family in Degree centrality. This tells me that the Guadagni family was also strongly positioned among the network of Florentine families and more than likely was the second most important family following the Medici family.