

Big East Football Rankability

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Results

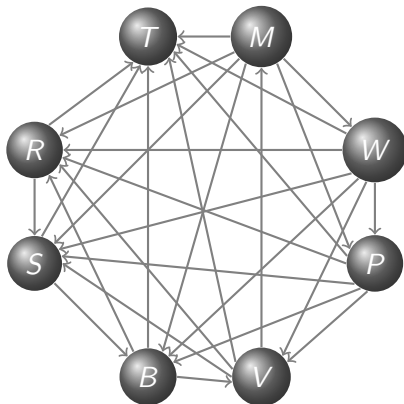
Year	rankH	rankM
2000	0.143	0.214
2001	0.143	0.172
2002	0.143	0.172
2003	0.143	0.160
2004	0.339	0.339
2005	0.162	0.164
2006	0.195	0.195
2007	0.316	0.316
2008	0.195	0.195
2009	0.143	0.169
2010	0.292	0.292
2011	0.286	0.286
2012	0.286	0.286



Most Rankable Year

Least Rankable Year

Year 2003



Eigenvalues of Laplacian:

$$\sigma(\Delta) = \{1, 5.6 \pm 0.81i, 2.9 \pm 0.8, 3.8, 6, 0\}.$$

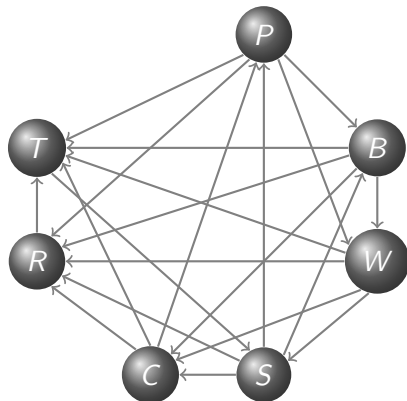
Shortest Cycle (length 3):

$$(P, V, M), (M, B, V),$$
$$(S, B, V), (R, S, B),$$
$$(M, W, V).$$

Longest Cycle (length 7):

 $(P, R, S, B, V, M, W).$

Year 2004



Eigenvalues of Laplacian:

$$\sigma(\Delta) = \{0, 4.4 \pm 1.3i, 3.9 \pm 0.4i, 2.2 \pm 0.3i\}.$$

Shortest Cycle (length 3):

$$\begin{aligned} &(B, W, S), (W, S, P), \\ &(S, C, T), (S, R, T), \\ &(W, C, P), (B, C, P), \\ &(T, S, P), (T, S, B). \end{aligned}$$

Longest Cycle (length 7):

 $(R, T, S, P, B, W, C).$

Remarks

- Miami dominated the Big East Conference from 2000 to 2003, winning the conference all three years and going undefeated from 2000 to 2002.
- In 2004, Miami and Virginia Tech left the conference and Connecticut joined.
- In 2004, the top 4 teams had a record of 4 – 2 and the bottom two teams had a record of 1 – 5.

Results

Year	rankH	algCon
2000	0.143	1.725
2001	0.143	0.823
2002	0.143	0.891
2003	0.143	0.902
2004	0.339	1.500
2005	0.162	0.907
2006	0.195	1.500
2007	0.316	1.824
2008	0.195	1.500
2009	0.143	1.500
2010	0.292	1.700
2011	0.286	1.500
2012	0.286	1.736

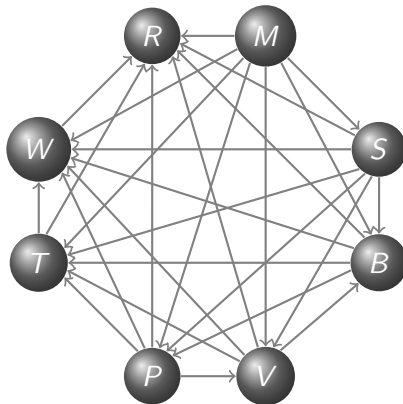
Algebraic Connectivity of Perfect Dominance Graph on 8 vertices is 0.810.

Algebraic Connectivity of Perfect Dominance Graph on 7 vertices is 0.822.

 Most Rankable Year

 Least Rankable Year

Year 2001



Year 2007

