C.P.S. 12/5/14

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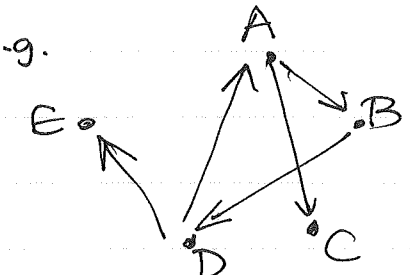
Rank College Football Teams

V = # of teams = # of vertices

g = # of games played = # of edges

r_i = rating of team i , $0 \le r_i \le 1$

e.g.



$\rightsquigarrow$ $(a-b+1)(b-d+1)(d-a+1)(d-e+1)(a-c+1)$

Want to compute

$$\int_{[0,1]^V} \cdots \int r_i \prod_{k=1}^{g} (w_k - l_k + 1) \Big/ \int_{[0,1]^V} \cdots \int \prod_{k=1}^{g} (w_k - l_k + 1)$$

where edge for game k goes $w_k \to l_k$

$V \approx 100$?

$g \approx 700$?

How to compute it efficiently ?