

1106-Q1-6

E Cabral Balreira* (ebalreir@trinity.edu), One Trinity Place, San Antonio, TX 78212. *An Oracle Method to Rank a Tournament from NFL Teams to Green Anoles*. Preliminary report.

We introduce several models for ranking teams in a league and discuss an original model developed by the author called the Oracle method. Using Linear Algebra and Network Analysis, we will illustrate how this model works to rank teams in the NFL and show this method to predict game outcomes better than other well-known methods. As an application, we will see how ranking methods can be used in mathematical biology to determine hierarch in the population of Green Anoles (*Anolis carolinensis*) as well as discovering which traits contribute to their hierarchy. (Received April 19, 2014)