**Sports Analytics Spring 2015**

**HW3 Assignment**

This assignment is **required.** It is worth **10 points** (10% of your course grade).

Collaboration Policy:

This is an individual assignment. You may use any resource (classmates, instructor, other faculty, the text, online, etc.) to complete this assignment, but be sure to document any help you receive (in your email when you submit the assignment). That being said, it is also a competitive assignment. It will be more FUN if your model/predictions are unique!

Description:

In this assignment you will develop a rating system for NCAA men’s basketball teams and use your rating system to predict the outcome of the NCAA men’s basketball tournament. You may use any method you like to rate the teams (those discussed in class or something else based on your own research), but you need to explain your rationale for using said method.

Data:

Two data files, which contain team stats and schedule/results for this season, will be provided. In addition, an R script that was used to gather this data will be provided. You may use this script as a baseline to gather more data if you need to in order to support your model.

What to turn in:

1. HW3 Poster Template.pub – Using this template, briefly describe your Problem Statement, Methodology, and Results. You may rearrange the format or change font as needed make your poster look nice. Be sure to paste a picture of your completed bracket in your poster, and don’t make the picture too small!
2. HW3 Bracket Template.xlsx – See “README” tab in the file. Do NOT mess with the Tracker tab! It will be used to track scores for everyone as the tournament progresses.
3. (optional) A SHORT (< 2 pages) write-up that describes your methodology in a little more detail if there just isn’t enough space to do it justice in the poster.

Turn-In Instructions:

Submit your files using the “HW3-<YOURLASTNAME>.<FILEEXTENSION>” naming convention via email to your instructor by 1600 on 18 March.

Scoring:

Your assignment will be graded based on:

1. Clarity
2. Appearance of your poster
3. Quality of your methodology to rate teams
4. Extra credit given to 1st and 2nd place in the class