Comparison between the semi-empirical Rothermel fire spread model and 1D physical Balbi fire spread model. This project will include the analysis of the fundamental concepts and assumptions behind these models and analysis of the results under various fuel and weather conditions.

This assignment requires submitting an abstract outlining the scope of the project you will be working on during this course. The abstract should be 0.5 - 1 page long (single spaced), and should describe the motivation behind your project and its scope. Please remember to include the tentative title of your project.

Why is this problem important?

In the lit study, express what we know, what we don’t know, etc.

In the project scope

This is what exatly I will try to accomplish, how I plan to accomplish that, and what is needed to do that. It is critical in business and in research. It allows us to wrap our head around the whole project and identify from a-z what we will be working on. Identify how many simulaitons are needed, how long each simulation takes, how much they will cost, what we will do with the simulations, what we are going to analyze (wind speed, temp, heat fluxes, etc..) Have to create a timeline and keep track of our progress. Need to be realistic. Spend enough time thinking of the scope of the project. This is the most critical part. We have to make sure that what we propose as a project is realistic. Like don’t make it too hard. It must come from us and what we want to accomplish.

For the fire weather briefing, Some people will record it and some people will be live. To find data, the time is now since fires are burning.

There will be a presentation outlining our project results. So the final report is two parts. We can record and post it on canvas.

Fire presentations should be 12-15 minutes.

Focus more on theory and physics behind the models.

It is 20% higher because of this concept under these conditions

Don’t include WRF-SFIRE