**Title of Paper:** Weather based Prediction of Transmission Outages using Neural Network

**Authors:** Tari Jung and Aviral Bhatnagar

**Reviewer Team (Name, Student Ids):** Sagar Tamang (5405896) and Bhupinder Juneja

**Date Review Completed:** April 9th, 2020

**SUMMARY:** The authors have clearly outlined the problem of transmission outage predictions. Reasonable points are raised showing the difficulty of generalizing with the traffic system. The detailed comments are provided below.

**FOCUS:**

**Does the paper clearly identify the problem it is addressing?**

The authors have clearly outlined the problem it is trying to address. However, interesting statistics in terms of financial burden related to outages if provided can help better grasp the interest of reader.

**Does the paper clearly explain related work and their limitations?**

The paper suggests that recent developments that are done does not scale well with system sizes or topological differences. Enough references are provided together with their limitations.

**Does the paper identify its key contributions?**

The paper identifies its key contributions right after the limitations of the existing research. This definitely helps the reader to gradually move from one section to another and improve readability.

**Does the paper present any evidence to support the contribution claim?**

Two references are provided which suggest that the ANN should perform better in this case as the power systems are nonlinear.

**TECHNICAL EVALUATION:**

**Is the literature survey complete?**

The literature review is thorough and one of the strongest points of this paper.

**Is the work novel relative to the literature? Explain.**

The work is novel as the authors understand the knowledge gap in the field and are trying to apply ANN to deal with the non-linearity.

**As a reviewer do you agree with the contribution claims? Explain.**

The provided evidence in terms of literature review strongly justifies the contribution claims.

**READABILITY AND ORGANIZATION:**

**Is the paper easy to read and understand to students in this course (Csci 8715)?**

The paper is neatly written and very easy to follow even by the students who are new to this topic.

**Is the paper self-contained?**

The paper is still under development, so, it is difficult to comment on this.

**Is the paper length reasonable?**

At this point, the paper length is reasonable.

**Does it include sufficient number of figures and tables?**

It is difficult to comment on this since the paper is still under development.

**STRENGTHS:**

**What are the strengths of this paper?**

* Thorough literature review on the related works
* Understanding of the status-quo
* The clarity in writing and flow of the paper

**AREAS FOR IMPROVEMENT:**

**How can this paper be improved? If you were to rewrite this paper, what revisions would you consider?**

Minor Comments:

* The order of references needs to be taken care of. For example, references 9 appears earlier than 3-8 in the paper.
* Making the literature review more compact (without removing any references) might help readers.