Scientific Writing
XPE045SCWR
Summer 2019

Assignment 1
Draft Outline of Paper

In this assignment you are going to start sketching out the main components of the paper you will be developing throughout the semester. You can use your master's thesis results.

Your submittal will use the IEEE Conference Paper Template. Either LaTex or MS Word. You can find template files (LaTex) at the following site:

`https://www.ieee.org/conferences_events/conferences/publishing/templates.html`

For Microsoft Word template, use the IEEE Sensors Letters.

`https://journals.ieeeauthorcenter.ieee.org/create-your-ieee-article/authoring-tools-and-templates/ieee-article-templates/templates-for-ieee-sensors-letters-2/`

Follow the directions below for filling in the various aspects of the template (these are presented according to the standard order for a paper). However, it is recommended that you complete the sections in the following sequence to better develop your story around your data:

1. Results
2. Methods
3. Introduction
4. Conclusion
5. References
6. Abstract & Keywords
7. Title & Authors

Title & Authors
Your title should be as succinct as possible but long enough to distinguish how this work is novel. You should be the first author listed. Be sure to include all the affiliation information.

Abstract & Keywords
For now, your abstract can consist of just two summary sentences: (1) What is the problem? and (2) What is the key contribution? For keywords, use terms from the 2017 IEEE Taxonomy (link provided below).

`https://www.ieee.org/documents/taxonomy_v101.pdf`

I. Introduction
For now, your introduction can be configured as four short paragraphs.
Paragraph 1: What is the problem being addressed and why is it important?

Paragraph 2: A bulleted list of relevant and prior methods.
Paragraph 3: A few sentences describing your work and your main contribution.
Paragraph 4: A bulleted list of the remaining sections.

II. Methods
Just a few sentences discussing the methods employed. You can structure these as subsections
(e.g., II.A, II.B) if appropriate.

III. Results
Provide an example figure (a hand sketch is fine). Provide a few sentences on what the data shows. If you expect more than one key result, then create subsections (e.g., III.A, III.B).

IV. Conclusion
You can restate your Abstract sentences for now. Use the "past tense" in writing this section.

References
Provide at least one reference associated with your research. At this point, even a textbook is fine.

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A hardcopy of your work is due at the beginning of class on Tuesday, March 5th, 2019.