



## METR7202 – Paper Review Instructions/Tips (As Slides)

METR 4202: **Robotics & Automation**

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### Paper Review Description

- **Task Description:**  
An extensive review and analysis of a recent (published after 2008), high-quality (A\*) journal paper (e.g., an IEEE Transactions) related to **Robotics** or **Advanced Controls** or its application. This review should be at least **2 pages long** and should be presented in [IEEE Transactions Format](#) (10-point, double-column) and should reflect on the novelty of the work.
- **Submission:**
  - Electronic: via [Platypus<sup>2</sup>](#) Please
- **Due Date:**  
Thursday, November 14, 2019 by 23:59 [**strict deadline**]



## Format & Page Count

- The IEEE format is basically:
  - 2-Column
  - 10-point *Times* or *Times New Roman* font
  - Single line spacing
- A template is available [from the IEEE](#) for:
  - [Word](#) or
  - [LaTeX: Document Template](#) + [Bibliography Template](#)
- Page Count
  - It should be at least 2 pages long.



## ★ ★ Things to Consider ★ ★

- Abstract (short is sweet!)
  - What is the Problem, gap, approach, key results?
- Introduction
  - What is the “scientific gap” (what technical aspects have not yet been solved)?
- Related Work
  - How does prior work relates to this?
- Approach
  - What is the approach?
  - What is the innovation?
- Results
  - What are key results?
  - Main questions that are being investigated in experiment(s)?
  - How is it tested? Data sets, simulator, implementation details
  - What is the validation? Simulation of known results? Empirically?
- Summary/Discussions/Conclusion
  - Is the problem discuss with respect to open questions?
  - What are some new promising research directions from this?
- References



## On the Introduction/Related Work

Consider:

- Does this paper motivate its problem
  - Why does it matter?
  - Why is it not solved yet?
  - What impact would a solution have?
  - What contribution did you make?



## On the Approach/Results

- It doesn't matter how paper got there...
  - “We tried A, it didn't work, therefore we tried B” ☹
  - “B works. To see, let us consider an obvious alternative A, and show A does not work” ☺
- Does it document progress, not just achievement
  - “B works” ☹
  - “B improves over A (current techniques) by X, which is important because of ...” ☺



## Reviewer Background Expertise

Reviewers may not be familiar with your area:

- Problem motivation
- State of the art
- Background material
- Notation
- Measures for evaluation
- Significant application domains

