



<http://elec3004.com>

## ELEC7312 Paper Review Instructions/Tips (As Slides)

ELEC 3004: Digital Linear Systems: Signals & Controls  
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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 Signals, Systems, or Digital Controls or its application must be presented. 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.
- **Criteria & Marking:** UQ students: Please sign in to [mySI-net](#) to view your list of enrolled courses and click the relevant **Profile** link to access marking criteria held in this profile
- **Submission:**
  - Emailed (as PDF) to [elec3004@itee.uq.edu.au](mailto:elec3004@itee.uq.edu.au) **or**
  - EAIT (Bldg. 50) assignment chute
- **Due Date:**
  - Monday, June 23 by 12:00 (**noon**)



## 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

