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 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**

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## 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