



<http://elec3004.com>

ELEC7312 Paper Review Instructions/Tips (As Slides)

ELEC 3004: **Digital Linear Systems: Signals & Controls**
Dr. Surya Singh

elec3004@itee.uq.edu.au

May 5, 2016

<http://robotics.itee.uq.edu.au/~elec3004/>

© 2014 School of Information Technology and Electrical Engineering at The University of Queensland



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:**
 - Electronic: Emailed (as PDF) to elec3004@itee.uq.edu.au **or**
 - Paper: In folder outside Bldg. 78-Room 531 (Surya Singh's office)
- **Due Date:**
 - Friday, July 3, 2016 by 12:00 (**noon**) [**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.



Oral Viva

- [optional]
- In addition, students may arrange to present their work to the course coordinator (Surya Singh) as an oral viva
- The purpose of this presentation is to show understanding of the chosen paper and, in particular, the **Signal, Systems and Controls** aspects within it.
- This needs to be scheduled (via email to elec3004@itee.uq.edu.au) in advance
- Viva (if optionally chosen) must be done by **July 3, 2016 at 12:00 (noon) {+1 month from Course Profile}**



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

