Ronald Y. Chang

The Role of Reviewers

- Most IEEE journals and conferences are peerreviewed
 - A paper is reviewed by people who work in related areas and have adequate knowledge of the area
 - Review is conducted anonymously
 - Anonymous Reviewers should provide <u>honest and</u> <u>helpful comments</u> about the paper, and make <u>unbiased and disinterested judgment</u> thereby
 - Being a Reviewer is a voluntary service

Learning to Be a Reviewer: General

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Learning to Be a Reviewer: General

Review criteria

Same criteria for your own submitted papers

- Significance
- Novelty
- Technical depth
- Organization and presentation

Read the paper with these criteria in mind

Learning to Be a Reviewer: General

- Review criteria example (IEEE Trans. Signal Process.)
 - 1. Is the topic appropriate for publication in these transactions? (Yes)
 - 2. Is the topic important to colleagues working in the field? (Moderately So)
 - 3. Is the paper technically sound? (Yes)
 - 4. Is the coverage of the topic sufficiently comprehensive and balanced? (Yes)
 - 5. How would you describe technical depth of paper? (Appropriate for the Generally Knowledgeable Individual Working in the Field or a Related Field)
 - 6. How would you rate the technical novelty of the paper? (Somewhat Novel)
 - 7. How would you rate the overall organization of the paper? (Satisfactory)
 - 8. Are the title and abstract satisfactory? (Yes)

Learning to Be a Reviewer: General

- Review criteria example (IEEE Trans. Signal Process.) (Cont.)
 - 1. Is the length of the paper appropriate? If not, recommend how the length of the paper should be amended, including a possible target length for the final manuscript. (Yes)
 - 2. Are symbols, terms, and concepts adequately defined? (Yes)
 - 3. How do you rate the English usage? (Satisfactory)
 - 4. Rate the Bibliography. (Satisfactory)
 - 5. How would you rate the technical contents of the paper? (Good)
 - 6. How would you rate the novelty of the paper? (Sufficiently Novel)
 - 7. How would you rate the "literary" presentation of the paper? (Totally Accessible)
 - 8. How would you rate the appropriateness of this paper for publication in this IEEE Transactions? (Good Match)

Learning to Be a Reviewer: General

- Hierarchical reading: Get the big picture and then go into details
 - Make comments this way as well
- Proactive reading: Read from your perspective and with your understanding of the topic
 - Besides the beautiful story told in the paper, what related and important issues are left unaddressed?
- Take notes while reading the paper, which will form your submitted Comments

Learning to Be a Reviewer: Specific

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- Review IEEE conference papers
 - Assign scores (1-5) for each criterion (novelty, contribution, etc.)
 - Provide specific comments
 - Review focus is aligned with the purpose of conference publication
 - Give your scores with this in mind
 - Papers with scores of 4 or higher will generally be accepted
 Papers with scores of 2 or lower will generally be rejected

Review IEEE journal papers

- Review style varies
 - Assign qualitative remarks to each criterion (TSP, etc.)
 - Give your recommendation (most)
- Provide specific comments
- Review focus is aligned with the purpose of journal publication, i.e., high-quality and significant work

Review IEEE journal papers (cont.)

- Give your recommendation with this in mind
 - Minor Revision and Major Revision will, with high likelihood, lead to eventual acceptance
 - Minor Revision or Major Revision should be given if the work is not of sufficient quality for publication, <u>but can be</u> <u>improved to achieve that level</u> (e.g., the insufficiency of quality is due to poor writing)
 - Rejection should be given if the work is not of sufficient quality, which <u>can hardly be improved due to the nature and</u> <u>scope of this work</u>

Review IEEE journal papers (cont.)

- Give your recommendation with this in mind (cont.)
 - Some journals (Letters) run binary decisions, and thus a Rejection may be given even if you think the paper falls in the Major Revision category
- You may need to serve again as the Reviewer for the same paper if it goes into the second-round review