INTRODUCTION CONT.
Lecture 2

COMPSCI 726
Network Defence and Countermeasures

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SEMINAR: INDIVIDUAL

- Grading
    - 4% introduction (motivation, background, and problem)
    - 4% solution (idea, details, and results)
    - 4% criticism (summary, issues, and improvements)
    - 3% review of one assigned presentation

- Duration
    - Up to 2 presentations per lecture
    - Every presenter will get ~20-25 minutes
        - 15 minutes for presentation (**a strict limit!**)
        - ~5-10 minutes for QA

- Feedback
    - Lecturers
    - Students

SEMINAR TIME AND PRESENTATION

- You will have 15 minutes for your presentation

- There are ~5-10 minutes for QA and discussion

- On average, you can have around 7-10 slides
  - Introduction: 2-3 slides
  - Solution: 2-3 slides
  - Criticism: 2-3 slides

- Your slides should be neither too simple nor too dense

- Use visuals

- Assume that your audience might not know the article

SOME TIPS ABOUT SEMINAR

- Minimise reading from slides or notes!

- Present article in your own words

- Your presentation will be uploaded on the course website so that others can benefit from it

- To save time, you should copy your presentation to the PC in the class before the lecture

- Alternatively, if you are using your laptop, make sure you connect and check it before the lecture

- Be on time!

INDIVIDUAL SEMINAR

- It is not a group seminar

- You are responsible for your article

- Having said that, you can give a rehearsal talk to your group member, if you want

- You should share your opinion in the criticism part

HOW TO CRITICISE?

- Does your article meet expectations you have from it?

- If you were user of this system, would it work for you?
  - Share your reasoning why yes or why not

- What would have you done differently if you could be the author?

- Share limitations you identify

- Your ideas to address identified issues

GROUP REPORT

- Group size: 2

- Page limit: 7-10

- For your report (in PDF only), use the following format
  - Times New Roman
  - Font 12
  - Single column
  - Single line spacing
  - 1 inch margin

- For grading purposes, you also have to submit
  - Percentage contribution of each group member
  - List of tasks each group member was involved in

STRUCTURE OF REPORT

- Abstract (~1 paragraph)

    – Context (1 sentence)

    – Problem (1 sentence)

    – State-of-the-art (1 sentence)

    – Solution (1 sentence)

    – Novelty (1 sentence)

- Introduction (~1.5 to 2 pages)

    – Context (1 paragraph)

    – Problem (1 paragraph)

    – State-of-the-art (1 paragraph)

    – Solution (1 paragraph)

    – Novelty

STRUCTURE OF REPORT (2)

- Related work (~1.5-2 pages)
  - Highlight how your idea is different from existing research
  - Cite 5 *'strong'* research articles including at least **one** from this list
  - One paragraph per research article

- Proposed idea (~2-3 pages)
  - Core idea and details
  - Bonus: experiment and comparison

- Conclusion (~0.5 page)
  - Summary of your report (~1 paragraph)
  - Future work (~1 paragraph)

- References

EXAM

- Lectures

- Lecture resources

- Seminars
  - Including presented articles

- Class discussions

- Online exam

- 7-10 questions
  - Each question might have sub-questions

- 2 hours

RECOMMENDED BOOK

- **Network Security Essentials – Applications and Standards**
  Fourth Edition
  William Stallings
  Prentice Hall
  ISBN 0-13-706792-5

LECTURE UPLOAD POLICY

- Presentation slides will be uploaded after the lecture

CANVAS AND COURSE WEBSITE

- Canvas for almost everything

    – https://canvas.auckland.ac.nz/courses/60584

- We will try to make lecture recordings available within a day after we receive recording links

    – Note that we have requested to record all the lectures

- Course website for lectures and seminars

    – https://www.cs.auckland.ac.nz/courses/compsci726s2c

- Piazza

    – https://piazza.com/aucklanduni.ac.nz/semester22021/compsci726

READING: HOW TO READ A RESEARCH ARTICLE

- How to Read an Engineering Research Paper
  William G. Griswold
  CSE, UC San Diego
  http://cseweb.ucsd.edu/~wgg/CSE210/howtoread.html

- How to Read a Paper
  S. Keshav
  University of Waterloo
  http://ccr.sigcomm.org/online/files/p83-keshavA.pdf

- How to Read a Technical Paper
  Jason Eisner (2009)
  http://www.cs.jhu.edu/~jason/advice/how-to-read-a-paper.html
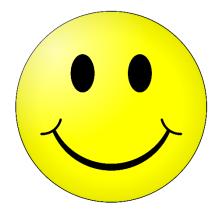
READING: HOW TO PRESENT
A RESEARCH ARTICLE

- How To Make an Oral Presentation of Your Research
  Center for Undergraduate Excellence
  University of Virginia
  https://undergraduateresearch.virginia.edu/present-and-publish/presentation-tips

- Notes on Presenting a Paper
  Matthew O. Jackson
  http://web.stanford.edu/~jacksonm/present.pdf

READING: HOW TO WRITE A REPORT

- How to Write a Research Paper
  Charles King
  http://faculty.georgetown.edu/kingch/How_to_Write_a_Research_Paper.htm

- How to Write a Great Research Paper
  Jon Turner
  Computer Science & Engineering
  Washington University
  http://www.arl.wustl.edu/~pcrowley/cse/591/writingResearchPapers.pdf

- Tips for Writing Technical Papers
  Jennifer Widom
  January 2006
  http://cs.stanford.edu/people/widom/paper-writing.html

Questions?

Thanks for your attention!