ECE 596a/696a Graduate Seminar

Fall Semester 2006 Prof. Robert Schowengerdt ECE 402 621-2706 schowengerdt@ece.arizona.edu

class website http://www.ece.arizona.edu/~dial/ece596A/ ece596A.html

Requirements

- Dríven by degree requirements:
 - MS: Must submit at least one referred conference or journal paper, with an ECE faculty member as a coauthor.
 - PhD: Must submit at least two referred journal papers (not counting M.S. papers), with an ECE faculty member as a co-author.

Requirements (cont)

- □ MS students: 1 unit 596A
- PhD students: 2 units 696A (2 semesters)
- all students must give one oral presentation to the class, with PowerPoint or PDF slides
 - □ PowerPoint available in ECE208 § 226, and all CCIT labs
 - presentation may be actual or library research, or current ECE topic



- □ S superíor (attend 14-16/16 classes)
- P pass (attend 12-13/16 classes)
- □ E fail (attend <12/16 classes)
- student presentations will be scored by all students (anonymously) and results will be given to the student (confidentially) by instructor



Automated Precise Registration of Radar and Optical Satellite Images

> By Tai Duc Hong

A Thesis Submitted to the Faculty of the DEPARIMENT OF ELECTRICAL AND COMPUTER ENGINEERING

In Particular Fulfillment of the Requirements For the Degree of

MASTER OF SCIENCE WITH A MAJOR IN ELECTRICAL ENGINEERING

In the Graduate College

THE UNIVERSITY OF ARIZONA

2003

Automated Precise Registration of Radar and Optical Satellite Images



THE UNIVERSITY OF ARIZONA

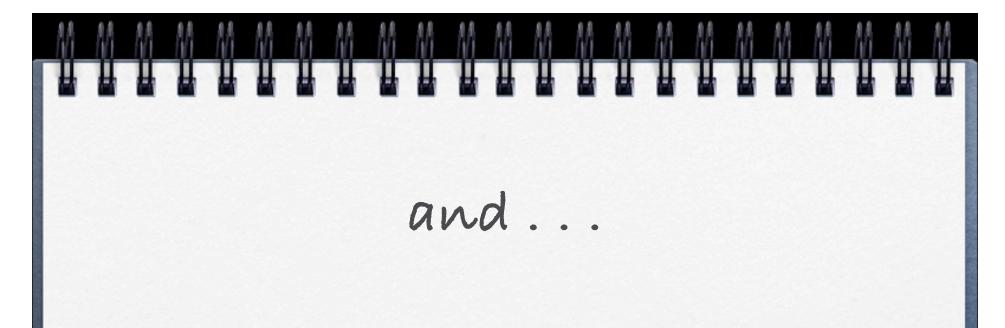
Thesis Defense by Tai D. Hong

May, 2003

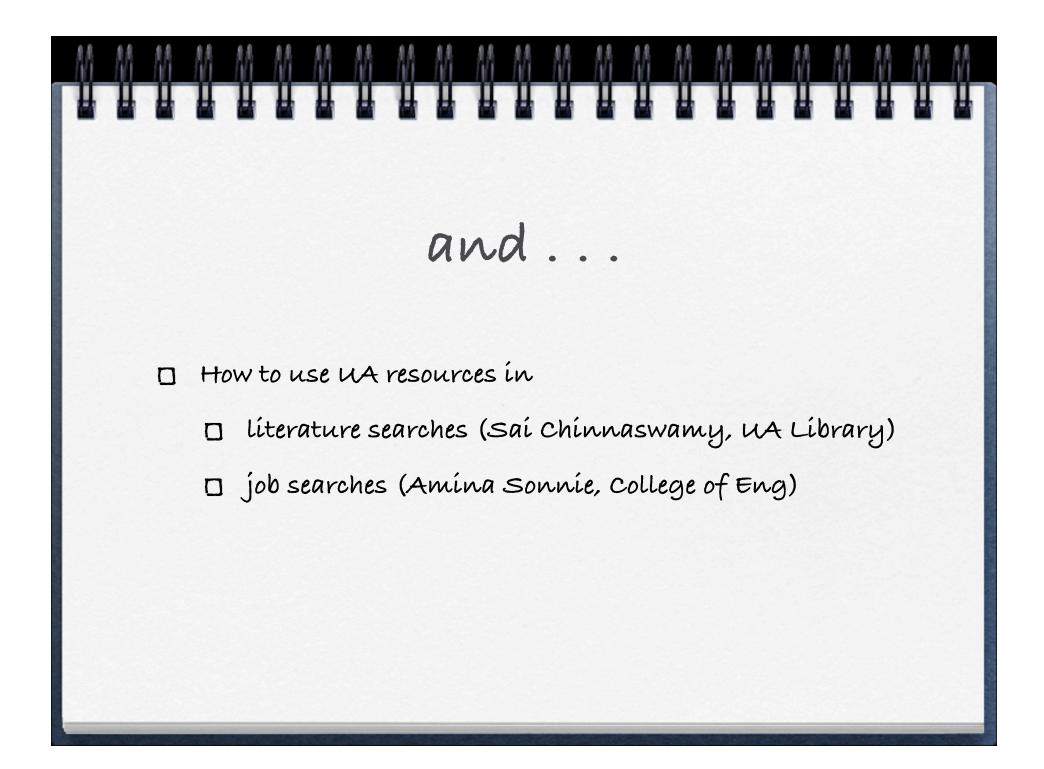
presentation

thesis or dissertation





- how to write a resume (Amina Sonnie, College of Eng) and
- how to present a conference paper (Martha Ostheimer, ECE)



Class Schedule

Subject to change

Aug 23	Introduction	
Aug 30	Theses & dissertations	
Sept 6	Journal papers	
Sept 13	Conference papers	
Sept 20	Conference presentations	
Sept 27	student presentations	
Oct 4	student presentations	
Oct 11	student presentations	
Oct 18	Líbrary tools	
Oct 25	student presentations	
NOV 1	student presentations	
NOV 8	student presentations	
Nov 15	Resume writing and job search	
NOV 22	student presentations	
NOV 29	student presentations	
Dec G	student presentations	

Introduction

- Writing or presenting to an audience will be an important part of your career!
- For any writing or presentation job, the first task is to define your audience

Target Your Audience

- General types
 - equal peers (technical, probably understand your work in detail)
 - unequal peers (technical, may or may not understand your work)
 - supervisors (technical/non-technical, may, but often don't, understand your work)

Examples

- □ thesis/dissertation: equal peers (your committee)
- journal paper: equal and unequal peers (reviewers and readers)
- conference presentation: unequal peers (your audience)
- business or research proposal: unequal peers and supervisors (reviewers and your management)

Remember Your Audience

- □ As you write a document, remember who will read it
- If it's unequal peers, include more explanatory material
- If it's supervisors, include even more explanatory and justification material

Literature Citations

- Common to all forms of technical writing
- For thesis/dissertations, begin compiling a literature bibliography as soon as you have a research topic
- Use software tools, including online literature databases and PC bibliography makers



- relevant work
- Many documents are "peer-reviewed" before publication one criterion is completeness of reference list

What needs to be cited?

- Any publication, e.g books, journal papers, conference papers,
- Certain types of "unpublished" information, e.g. websites, reports, private communications and
- Anything else that is used in or is important for your work, e.g. a specialized "published" software program

What about Internet citations?

- □ URLS are not permanent; use sparingly
- If equivalent permanent reference exists, e.g. a published paper, use that instead or in addition

Basic Book/Monograph Online Sources: Author. (year, month, day). Title (edition) [Type of medium]. Volume(issue). Available: http://www.(URL)

J. Jones. (1991, May 10). Networks (2nd ed.) [Online]. Available: http://www.atm.com

Journal Online Sources style: Author. (year, month). Title. Journal [Type of medium]. Volume(issue), paging if given. Available: http://www.(URL)

R.J. Vídmar. (1992, August). On the use of atmospheric plasmas as electromagnetic reflectors. IEEE Trans. Plasma Sci. [Online]. 21(3). pp. 876 —880. Available: http://www.halcyon.com/pub/journals/21ps03-vidmar

IEEE citation style

- Mícrosoft Word and LaTeX templates at http:// www.ieee.org/portal/pages/pubs/transactions/ stylesheets.htm
- Cítation in text is InumberI, where number is assigned uniquely to each reference: 1, 2, ...

Examples

- Transactions and other peer-reviewed journals
 - submitted for review and waiting for decision:

[1] J. Wang, "Fundamentals of erbium-doped fiber amplifiers arrays," IEEE J. Quantum Electron., submitted for publication.

accepted and waiting for publication:

[2] E. H. Miller, "A note on reflector arrays," IEEE Trans. Antennas Propagat., to be published.

published (single author):

[3] J. U. Duncombe, "Infrared navigation—Part I: An assessment of feasibility," IEEE Trans. Electron Devices, vol. ED-11, pp. 34–39, Jan. 1959.

published (multiple authors):

[4] S. Chen, B. Mulgrew, and P. M. Grant, "A clustering technique for digital communications channel equalization using radial basis function networks," IEEE Trans. Neural Networks, vol. 4, pp. 570–578, July 1993.

Conferences

published in proceedings:

S. P. Bingulac, "On the compatibility of adaptive controllers," in Proc. 4th Annu. Allerton Conf. Circuits and Systems Theory, New York, 1994, pp. 8–16.

not published in proceedings:

J. G. Kreifeldt, "An analysis of surface-detected EMG as an amplitudemodulated noise," presented at the 1989 Int. Conf. Medicine and Biological Engineering, Chicago, IL.

Prívate communication (e.g. conversation with a person or an email or letter)

C.J. Kaufman, Rocky Mountain Research Lab., Boulder, CO, private communication, May 1995.

Bibliographic Software

ProCíte	http://www.procíte.com/	Win, Mac OS
EndNote	http://www.endnote.com/	Win, Mac OS X
Reference Manager	http://www.refman.com/	Win
Bookends	http:// www.sonnysoftware.com/	Mac OS X
BÍDTEX	varíous	Latex