

English Technical Writing

- While we wait for others, please give me a little information about yourself:
- Go to Ecourse/English Technical Writing/Part 1/ Feedback
- Download and fill out the "Student information sheet" and upload it again to the same category (Listed as a 'homework' assignment, but not counted in the grade)


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English Technical Writing

Gerry Rau
Fall 2023 (112-1)
Class 1

2

Who am I?



- Prof. Gerald Rau (饒傑瑞 教授)

3

Husband and father







- Wife:
- Prof. Victoria Rau (何德華 教授)
- Linguistics (語言學研究所)

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Teacher

Cornell University
Ph.D.



Plant Breeding
植物育種

American School in
Taichung (13 years)



Biology 生物
Physics 物理
Chemistry 化學
Earth Science 地球科學
Environmental Science 環境科學
Kitchen Science 廚房科學

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Teacher

Wheaton College
Trinity Christian College



Biology

Chung Cheng University
(國立中正大學)



Electrical Engineering
Ching Jiang Learning Center

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Editor

- Freelance editor 15 years
 - Journal articles
 - Medicine, Science, Applied mathematics, Linguistics ...
- CCU
 - Office of International Affairs (OIA)
 - University grants

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Editor

- AIMS?
 - Advanced Institute for Manufacturing Systems
- AIM-HI!
 - Advanced Institute of Manufacturing with High-tech Innovations



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Leader, English Congregation



Chuan Ai Church
English Worship Service 10:30


9

Who is your TA?

- To be determined ...

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Fitting In, Standing Out



Understanding Yourself and Others	Evaluating Writing Strategies	Fitting In, Standing Out	Course Overview and Assignment: Exemplar Articles
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Understanding Yourself and Others



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Understanding Yourself and Others

- Why you work the way you do
- How to work better with others

- Lab mates
- Advisor

- Classmates
- Professors

Me

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Hippocrates

- Greece, 460-370 B.C.
- “Father of Western Medicine”

- People can be divided into 4 Temperaments
 - Based on dominant body fluid

But we have moved beyond this part

Many personality tests still have 4 dominant types





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Lark, Hawk, Dove, Owl

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Talker, Doer, Listener, Thinker

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		High Energy			
		Lark Talker Energizer		Hawk Doer Taskmaster	
People Oriented				Task Oriented	
		Dove Listener Participator		Owl Thinker Analyzer	
				Low Energy	

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Characteristics

- Lark, Talker, Energizer
- Hawk, Doer, Taskmaster

- Dream the impossible dream!
- Change driven
- Being creative
- Try something
- Innovative

- Just do it!
- Action driven
- Being successful
- Exercise control
- Perseverance

- Dove, Listener, Participator
- Owl, Thinker, Analyzer

- Reach out and touch someone!
- Relationship driven
- Being caring
- Build trust
- Fairness

- Plan ahead!
- Analysis driven
- Being right
- Minimize risk
- Perfectionist

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Where do you belong?

<p>High energy</p> <ul style="list-style-type: none"> Lark, Talker, Energizer Dream the impossible dream! Change driven Being creative Try something Innovative <p>People oriented</p> <ul style="list-style-type: none"> Dove, Listener, Participator Reach out and touch someone! Relationship driven Being caring Build trust Fairness <p>Low energy</p>	<ul style="list-style-type: none"> Hawk, Doer, Taskmaster Just do it! Action driven Being successful Exercise control Perseverance <p>Task oriented</p> <ul style="list-style-type: none"> Owl, Thinker, Analyzer Plan ahead! Analysis driven Being right Minimize risk Perfectionist
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Personality types and writing

- As a personality type, what is your greatest strength relative to research and writing?
- As a personality type, what is your greatest weakness relative to research and writing?
- Which personality type would you have the hardest time working with? Why?

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Greatest Strength/Weakness




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Lark, Talker, Energizer



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Hawk, Doer, Taskmaster



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Dove, Listener, Participator



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Owl, Thinker, Analyzer

The slide features two illustrations. On the left, a person is shown in profile, resting their chin on their hand with a question mark above their head, representing a 'Thinker'. On the right, a person is shown with their hands on their head and a pained expression, representing an 'Owl' or 'Analyzer' who is overwhelmed.

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Group Process

- How did you come to a decision in group task?

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Approach to Work

<ul style="list-style-type: none"> • Lark, Talker, Energizer • Dream the impossible dream! • Change driven • Being creative • Try something • Innovative • Talk, talk, talk 	<ul style="list-style-type: none"> • Hawk, Doer, Taskmaster • Just do it! • Action driven • Being successful • Exercise control • Perseverance • Work, work, work
<ul style="list-style-type: none"> • Dove, Listener, Participator • Reach out and touch someone! • Relationship driven • Being caring • Build trust • Fairness • Listen, listen, listen 	<ul style="list-style-type: none"> • Owl, Thinker, Analyzer • Plan ahead • Analysis driven • Being right • Minimize risk • Perfectionist • Wait, wait, wait

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Relating to Others

- Based on what you have seen
 - What personality type is your advisor?
 - What personality type am I?

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What is your Advisor?

<ul style="list-style-type: none"> • Lark, Talker, Energizer • Dream the impossible dream! • Change driven • Being creative • Try something • Innovative • Talk, talk, talk 	<ul style="list-style-type: none"> • Hawk, Doer, Taskmaster • Just do it! • Action driven • Being successful • Exercise control • Perseverance • Work, work, work
<ul style="list-style-type: none"> • Dove, Listener, Participator • Reach out and touch someone! • Relationship driven • Being caring • Build trust • Fairness • Listen, listen, listen 	<ul style="list-style-type: none"> • Owl, Thinker, Analyzer • Plan ahead • Analysis driven • Being right • Minimize risk • Perfectionist • Wait, wait, wait

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If your advisor is a

<ul style="list-style-type: none"> • Lark, Talker, Energizer • Stretch outside the box • Focus on innovation • Clarify ideas • Document goals • Listen well 	<ul style="list-style-type: none"> • Hawk, Doer, Taskmaster • Do something now • Focus on goals • Meet deadlines • Get to the point • Listen well
<ul style="list-style-type: none"> • Dove, Listener, Participator • Be patient and open to ideas • Focus on collaboration • Address fairness and equity • Build trust • Listen well 	<ul style="list-style-type: none"> • Owl, Thinker, Analyzer • Come prepared • Focus on analysis • Understand their plan • Listen for specifics • Listen well

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What am I?

<ul style="list-style-type: none"> • Lark, Talker, Energizer • Stretch outside the box • Focus on innovation • Clarify ideas • Document goals • Listen well 	<ul style="list-style-type: none"> • Hawk, Doer, Taskmaster • Do something now • Focus on goals • Meet deadlines • Get to the point • Listen well
<ul style="list-style-type: none"> • Dove, Listener, Participator • Be patient and open to ideas • Focus on collaboration • Address fairness and equity • Build trust • Listen well 	<ul style="list-style-type: none"> • Owl, Thinker, Analyzer • Come prepared • Focus on analysis • Understand their plan • Listen for specifics • Listen well


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Relating to Me

<ul style="list-style-type: none"> • Lark, Talker, Energizer • Stretch outside the box • Focus on innovation • Clarify ideas • Document goals • Listen well 	<ul style="list-style-type: none"> • Hawk, Doer, Taskmaster • Do something now • Focus on goals • Meet deadlines • Get to the point • Listen well
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Evaluating Writing Strategies



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Bad writing strategies

1) Think and write in another language, then translate into English

Google Translate and ChatGPT are getting pretty good – can I use that?

Maybe – we will be experimenting with that this year

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Why won't it work directly?

- Chinese (and other Asian) research reporting:
 - Has longer paragraphs
 - Uses longer sentences with more complicated grammar
- English research reporting:
 - Points more explicitly to gaps in previous research
 - Is less tolerant of asides and digressions
 - Places responsibility for clarity and understanding on the writer than the reader

It may be useful for a rough draft

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Bad writing strategies

2) Complete your research or data collection, then start to write

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Write Before you Forget

- When you get an idea, WRITE IT DOWN
- When you are writing one section, get an idea what to write in another section, WRITE IT DOWN



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Bad writing strategies

3) Ask someone fluent in English, but not in your field, to edit your writing

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Native Speakers

- Would you ask someone from a different department how to write your article?
- Specialized knowledge and vocabulary



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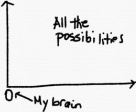
Bad writing strategies

4) Write a paper from beginning to end (from the title to conclusions)

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Steps in Writing



- Before Writing – Figure out the expectations
- Prewriting – Get ideas, put in order (write as you do it or think of it)
- Writing – Rough draft (rough sentences, rough order)
- Rewriting – Rewrite to please yourself, your advisor (organization, clarification)
- Submitting and Revising – Revise to please the editor

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Good writing strategies

- 1) Talk to your advisor early and often

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Advisor, Co-Author



- Mentor
 - Like Master/Apprentice
- Knows field
 - Knows what journals accept what kinds of papers
 - Knows language of the field
 - Can make sure you are going the right direction early

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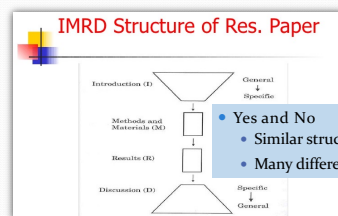
Good writing strategies

2) Pay attention to the structure (organization) of papers in your discipline as well as the content

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Is there a standard model?

- Does every field have the same structure for research articles?



- Yes and No
 - Similar structure in Engineering
 - Many differences from Science

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Problem

- You want to have your article accepted
- Journals in your field have a certain structure
 - You need to learn what that structure is

Possible solutions

1. Gradually learn by experience
2. Ask someone with more experience
3. Purposefully study successful articles

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Goal: Fitting In, Standing Out

Section 1.1

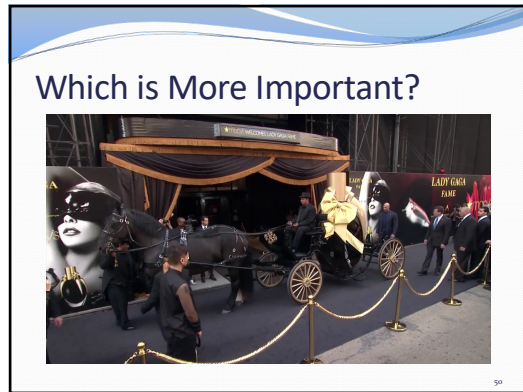


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Which is More Important?

- Results of the research
- Structure of the paper
- Inner beauty
- Outward beauty

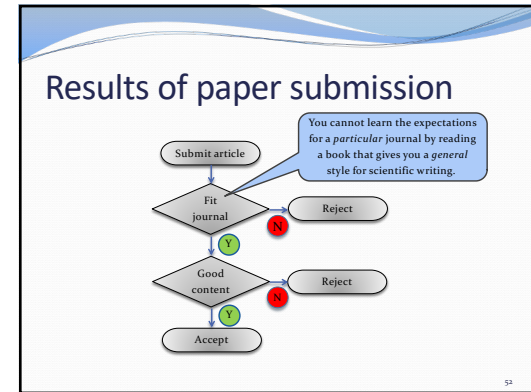
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Genre Analysis

- Purposely analyze structure of successful articles
- Short term: tedious, hard work
 - Does not seem to be getting your paper written
- Long term: worthwhile
 - Less rewriting
 - Higher chance of acceptance
 - Easier to learn expected structure of another journal

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Genre Analysis

- Learn to write like someone in your field by reading/analyzing papers in your field

Hold that thought ...

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Course Overview

See Syllabus on ECourse2

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Goal

- This course will be **most useful to students who are in early stages** of their research
- Doctoral students or advanced Master students who are ready to write a complete article should take **Advanced English Technical Writing** (May serve as TA for this course)

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What will you do?

- analyze the structure of exemplar articles in your field,
- construct and support arguments, which are basic to all technical writing,
- read **at least 8** articles related to your thesis research,
- write **at least the Introduction division** of a research article related to your thesis research
- do three oral presentations on your work, and
- comment on the work of other students.

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Course Overview – Basic

- Week 1 Overview
- Weeks 2-8 Exemplar Article Description
- Weeks 9-15 Writing and Rewriting
- Week 16 Final Presentations

- Details on Syllabus, on **ECourse2**

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English technical writing schedule
National Chung Cheng University, Electrical Engineering Department, Fall 2023 (112-1, section 1, Tuesday)

Date	Topic	Text	Classwork	Submit to ECourse	Bring to next class
1	9/5	Fitting in, standing out	1: 1-4	Course overview, Types of writers and advisors, Acceptable exemplars	
2	9/12	Identifying overall structure	2: 1,2,4	IMRD vs. IPTC, Track changes, Using electronic resources to find exemplars	Three Exemplars (5%) 9/12
3	9/19	Understanding argument structure	3:	Components, Recognizing and writing claims, Document navigation, Improving tables	Read 3 exemplars + Introduction
4	9/26	Establishing importance and need	4	Exemplar article Introduction, Research goal, Track changes	Writing a Claim (5%) 10/3
5	10/3	Demonstrating continuity and novelty	5	Exemplar article Method/Process	Marked exemplars + P (or M)
10/10 National holiday, no class					
6	10/17	Analyzing contribution	6	Exemplar article last 2 divisions	Peer Review (5%) 10/20, 22*
7	10/24	Using past research for support	7, 1,2, 20,3, 25	Citing past research, Reference managers	Component Anal. (10%) 10/29
8	10/31	Using present research for support	8,1-5	Evaluating graphics	Exemplar presentations (2)
9	11/7	Presenting your work	16: 1-3	Preparing an oral presentation	Exemplar Descript. (15%) 11/14
10	11/14	Planning your writing	10: 19:1-2	Planning, Using electronic resources to find a topic	Argument structure outline +1 article
11	11/21	Getting your ideas in order	18: 19:3-4	Brainstorming, Linearizing, Avoiding plagiarism	Prewriting (10%) 11/26
12	11/28	Organizing the argument	20:1,6	Coherence, Cohesiveness	+1 article
13	12/5	Clarifying your claims	21	Connection, Connotation	Peer Review (5%) 12/8, 10*
14	12/12	Adding the final parts	23: 26: 1-3	Consistency, Correctness, Collaboration, Title, Abstract	+1 article
15	12/19	Requesting assistance	17	Final, testing electronic resources for writing email	Final draft (10%) 12/17
16	12/26	Sharing your achievement	14	Final oral presentations (10) (10%)	Final draft (15%) 12/31
1/2 No final exam = No class					

*Submit your work to ECourse and your partner by the first date; submit your peer review at the normal submission time.

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English technical writing schedule
National Chung Cheng University, Electrical Engineering Department, Fall 2023 (112-1, section 2, Thursday)

Date	Topic	Text	Classwork	Submit to ECourse	Bring to next class
1	9/7	Fitting in, standing out	1: 1-4	Course overview, Types of writers and advisors, Acceptable exemplars	
2	9/14	Identifying overall structure	2: 1,2,4	IMRD vs. IPTC, Track changes, Using electronic resources to find exemplars	Three Exemplars (5%) 9/19
3	9/21	Understanding argument structure	3:	Components, Recognizing and writing claims, Document navigation, Improving tables	Read 3 exemplars + Introduction
4	9/28	Establishing importance and need	4	Exemplar article Introduction, Research goal, Track changes	Writing a Claim (5%) 10/3
5	10/5	Demonstrating continuity and novelty	5	Exemplar article Method/Process	Marked exemplars + T, C (or R&D, C)
10/12 National holiday, optional class					
6	10/19	Analyzing contribution	6	Exemplar article last 2 divisions	Peer Review (5%) 10/22, 24*
7	10/26	Using past research for support	7, 1,2, 20,3, 25	Citing past research, Reference managers	Component Anal. (10%) 10/31
8	11/2	Using present research for support	8,1-5	Evaluating graphics	Exemplar presentations (2)
9	11/9	Presenting your work	16: 1-3	Preparing an oral presentation	Exemplar Descript. (15%) 11/16
10	11/16	Planning your writing	10: 19:1-2	Planning, Using electronic resources to find a topic	Argument structure outline +1 article
11	11/23	Getting your ideas in order	18: 19:3-4	Brainstorming, Linearizing, Avoiding plagiarism	Prewriting (10%) 11/28
12	11/30	Organizing the argument	20:1,6	Coherence, Cohesiveness	+1 article
13	12/7	Clarifying your claims	21	Connection, Connotation	Peer Review (5%) 12/10, 12*
14	12/14	Adding the final parts	23: 26: 1-3	Consistency, Correctness, Collaboration, Title, Abstract	+1 article
15	12/21	Requesting assistance	17	Final, testing electronic resources for writing email	Final draft (10%) 12/19
16	12/28	Sharing your achievement	14	Final oral presentations (10) (10%)	Final draft (15%) 1/2
1/6 No final exam = No class					

*Submit your work to ECourse and your partner by the first date; submit your peer review at the normal submission time.

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Required Textbook

Rau, Gerald
Writing for Engineering and Science Students: Staking your Claim Taylor & Francis 2020
Available for download on CCU network:
<http://www.taylorfrancis.com/books/9780429425684>

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Additional Resources


Online Supplemental materials:
<https://www.routledge.com/Writing-for-Engineering-and-Science-Students-Staking-Your-Claim/Rau/p/book/9781138388253#eresources>

Also on Ecourse  Audio PowerPoint summaries of each chapter

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Additional Resources


English Technical Writing
 Massive Open Online Course (MOOC):
<https://www.youtube.com/watch?v=2aohOEwKX8&list=PLOn99gbzkJv9x-TL-dVbor9cWebn7nzkiF&index=1>

 Video summaries of what we will cover from Chapters 1-9
 Graduate students from EE, ME, CE showing how to do the exercises

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Additional Resources

- Preparing for International Competition
- Massive Open Online Course (MOOC)
- <https://youtube.com/playlist?list=PLOn99gbzkJv9zeKqFnLK9oQcyKALWtaoz>

 Units on writing and preparing PPTs
 Covers much of the same material as this course
 I will refer to specific units as we go

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COVID precautions

- Just in case: Course Part 3
 - Details for class via Google Meet
- Be careful – stay healthy
 - Keep everyone healthy

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Class Expectations

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Class format

- “Flipped classroom”

In class	At home
New material: Lecture	Practice: Exercises
At home	In class

- Read material before class, come with questions
- PPT introduction (“lecture”) online - optional
 - In class work on exercises and writing

Bring a laptop/tablet to write on (tell me if that is a problem)

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Your Role

- GIGO
 - Garbage in, garbage out

Bad data → Computer program
Statistical program → Bad results

- NINO
 - Nothing in, nothing out

No work → Class → No gain

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Your Role

- Read text before class each week
- Be here each week On Time
- Ask questions
- Provide feedback to one another
- Submit assignments on time

Teamwork

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My Role

- Mentor (coach), not lecturer
- Will help you prepare to write a research paper
 - In the format of a journal article in your field
 - On a topic related to your thesis

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Why EMI?

- English Medium Instruction
- Many scientific articles and conferences in English
 - English as a lingua franca (common language)
- Practice all areas of English
 - Reading, Writing, Listening, Speaking
 - Practice communicating with different cultures

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Do NOT be afraid of English!

- I have experience:
 - Teaching ESL/ELF students
 - Learning Chinese
- Academic English (including scientific writing) is a second language for everyone

This is an EMI class,
Not an English Class!

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Finding Exemplar Articles

Section 1.4

Back to that thought ...

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Exemplar Articles

- Evaluate features, determine unstated expectations
- Become part of the “disciplinary community”
 - “Fitting in”
 - Write, think like they do
- Excel in research writing
 - “Standing out”
 - Clear



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Find First Article

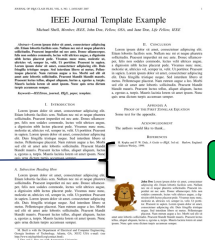
- Key article in your research field



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Find Previous Articles

- References in your present article




Previous articles Cited in References

More recent is better – especially in engineering

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Find Later Articles

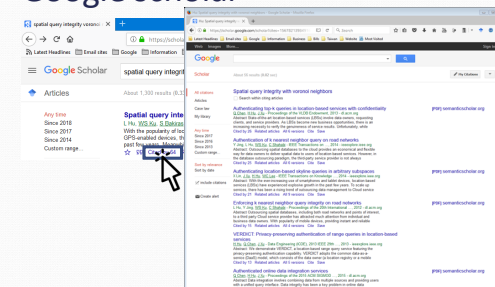
- Google Scholar/Citations



Later articles Citing this article

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Google scholar



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Not acceptable exemplars

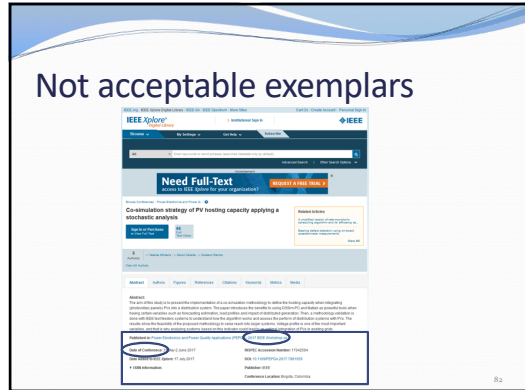
- Conference papers (Proceedings, Symposium)



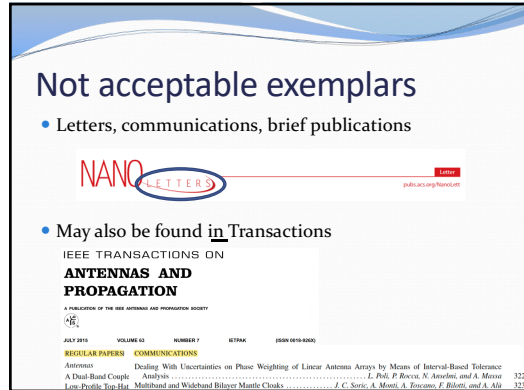
The 9th International Conference on Future Networks and Communications (FNC-2014)

10th IFAC Symposium Advances in Control Education The International Federation of Automatic Control August 28-30, 2013, Sheffield, UK

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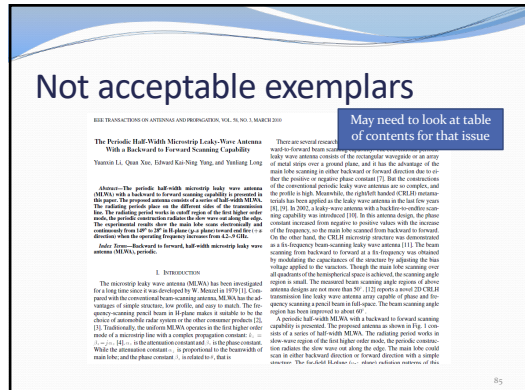
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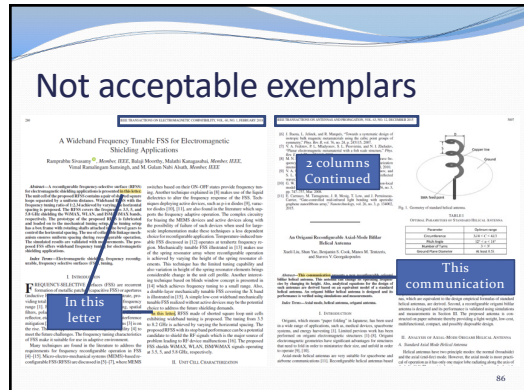
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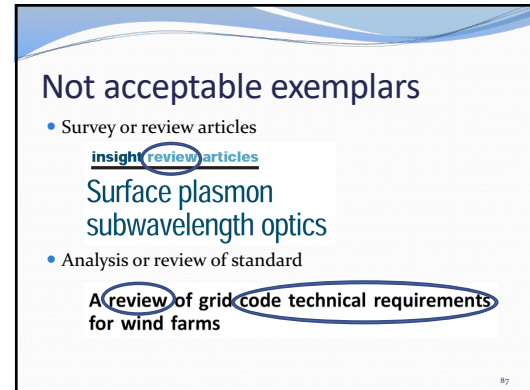
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87

Not acceptable exemplars

- Trade publications
- Popular science publications

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Old = not very good exemplar

Macromolecules 1995, 28, 3787-3793

3787

Protection and Polymerization of Functional Monomers. 24. Anionic Living Polymerizations of 5-Vinyl- and 4-Vinyl-1,3-benzodioxoles

Takashi Ishizone, Akihiko Mochizuki, Akira Hirao,* and Seitichi Nakahama*

Department of Polymer Chemistry, Faculty of Engineering, Tokyo Institute of Technology, Ookayama, Meguro-ku, Tokyo 152, Japan

Received November 11, 1994; Revised Manuscript Received March 10, 1995*

ABSTRACT: Anionic polymerizations of 5-vinyl-1,3-benzodioxole (1) and 4-vinyl-1,3-benzodioxole (2) were carried out in tetrahydrofuran at -78 °C with oligo-*n*-methylsilylbutyllithium and -dipotassium. The vinyl polymerizations of 1 and 2 proceeded quantitatively within 30 min. The resulting polymers had predicted molecular weights and narrow molecular weight distributions ($M_w/M_n \leq 1.1$), indicating the living character of the polymerization systems. These living polymers were however found not to be completely stable either for a long time (24 h) or at an elevated temperature (-30 °C). Well-defined block copolymers, poly(1-*b*-styrene-*b*-1), poly(styrene-*b*-4-styrene), and poly(styrene-*b*-2), were successfully synthesized by the sequential polymerizations. The methyleneoxy linkage of the acetal moiety of poly(1) was completely cleaved with boron trifluoride-dimethyl sulfide complex in 1,2-dichloroethane to give the unstable poly(4-vinylstyrene).

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Old vs. New

Macromolecules

Living Anionic Polymerization of 1,4-Divinylbenzene and Its Isomers

Shunakei Tanaka, Masayoshi Matsumoto, Raita Goeshi, Takashi Ishizone, and Akira Hirao*

Polymers and Organic Materials Department, Graduate School of Science and Engineering, Tokyo Institute of Technology, 4246, 5-1-1, Ohokayama, Meguro-ku, Tokyo 153-8505, Japan

ABSTRACT: The anionic polymerization of 1,4-divinylbenzene (1) and its isomers (2) and (3) were studied under a variety of conditions. One of the most rapid groups of 1 was selectively and exclusively polymerized in a living manner by the addition of suitable additives under the conditions of -78 °C for 1 min and -95 °C for 30 min. Under such conditions, the anionized addition reaction of the charged species to the pendant vinyl group was almost suppressed and suitable polymers with predictable molecular weights of up to 60,000/mol and narrow molecular weight distributions ($M_w/M_n \leq 1.0$) were quantitatively obtained. The amount of observed chain transfer by the addition reaction was negligible or very small (<5%). The effective additives in this polymerization involve potassium alkoxide and phenoxide, derived from tetraalkylaluminum-*o*-cresolaldehyde, *o*-cresolaldehyde, 1,2,4,6-tetrakis(methylphenyl)-3,5-dicyanobenzene, 1,3,5-tri-*t*-butylphosphorane, phenol, 1-naphthol, and 2,4-dialkylphenol; 4-methylphenol and potassium carboxylate derived from propic acid. The living chains could be obtained by this approach for longer times, but very stable at -95 °C, even for 20 min. The observed chain transfer is attributed to this approach with di-*tert*-butyl methylcarbamate and 1,1-diphenylethylene, and the resulting chains remained unchanged at -78 °C even after several hours.

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Predatory journals

- Pay to publish
- Claim to have peer review
- No effective review, almost no papers rejected

- NEVER submit your paper to one
- NEVER cite one

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Predatory journals

International Journal of Innovative Research in Computer and Communication Engineering

Vol. 4, Issue 4, September 2016

Home Based Security Control System using Raspberry Pi and GSM

Abhis V. Bhambale*, Usha B. Shinde*, Shantanu R. Zaware*

PO Institute, Dept. of E&TC, CMSSMCA, Shri Chhatrapati Sastri College of Engineering, Amnaghad (SI), India*

Assistant Professor, Dept. of E&TC, CMSSMCA, Shri Chhatrapati Sastri College of Engineering, Amnaghad (SI), India*

ABSTRACT: Home security and automation are becoming increasingly prominent features in mobile devices. The aim of this paper is to design and implement effective, flexible and low-costing home security system using Raspberry Pi with GSM technology. The system is designed to detect intruder, the status of doors, is captured by camera and sends to mobile and email as well as status page on web, looking in handle gas, fire smoke sensor for fire and smoke response activity is detected, Alerts and can view status of the alarm system which group intruder through the mobile. The messages can be flexibility of activating and deactivating the alarm system by the addition control for home based system including using mobile. For controlling, Raspberry Pi controls GSM technology to send alarm via internet. PII access. Unlimited access, no quality issues. It is not applicable for analogue door lock system.

KEYWORDS: Home security and automation, Home automation, Raspberry Pi, GSM.

INTRODUCTION

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Predatory journals

International Journal of Scientific & Engineering Research, Volume 4, Issue 11, November 2013

Access Control of Door and Home Security by Raspberry Pi Through Internet

MS. Harshvardhan Choudhary*, MS. Shoban Noorain*, Srijan Saha*

ABSTRACT: In the present age, internet of things (IoT) has become a popular one in smart growth. The Internet of things is a concept that aims to connect the benefits of the regular Internet-connected connectivity, remote control ability, data sharing, and so on...to push in the physical world. Existing things are getting connected with the internet. This concept can be used for making the security concerned issues in a cost-effective way in the paper with a system is being described to control any door with the internet, so that the access control system can be controlled from any where in the world. It is a case that can be used at home or in an office. In this case, steps like the detection of intruder will be notified about the mobile number and the person will be notified from the mobile phone through the camera view and when the system will take a picture of the intruder and send it through an attachment through Email or based on the folder. The authorized person opens a page to monitor the status of the door using through the internet and the status of the door can be controlled through the internet. With the help of this system, the entrance of the visitor can be kept as a record in any programming type or database system.

Index Terms: Internet of Things (IoT), Raspberry Pi, Wireless Door Control, Security Measures, Web-Frontend, PHP Script, Human Interface.

1 INTRODUCTION

In the modern world, internet has become the backbone of our life. It has become a part of our daily lives. People are using it to connect with their friends, to do their work, and also to keep their data safe. In this paper, we will discuss about the access control system using Raspberry Pi through internet. The system is designed to detect intruder, the status of doors, is captured by camera and sends to mobile and email as well as status page on web, looking in handle gas, fire smoke sensor for fire and smoke response activity is detected, Alerts and can view status of the alarm system which group intruder through the mobile. The messages can be flexibility of activating and deactivating the alarm system by the addition control for home based system including using mobile. For controlling, Raspberry Pi controls GSM technology to send alarm via internet. PII access. Unlimited access, no quality issues. It is not applicable for analogue door lock system.


KEYWORDS: Home security and automation, Home automation, Raspberry Pi, GSM.

INTRODUCTION

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2 Download textbook

- On the school internet:
- Go to <http://www.taylorfrancis.com/books/9780429425684>
- Download the textbook



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3 Find Exemplar articles

- Read Chapters/Sections
 - 1.1-3 (Introduction - optional)
 - 1.4 Choosing exemplar articles
- Optional
 - Listen to the audio file for chapter 1 in this folder on ECourse:
 - Audio PowerPoint Chapter Summaries
 - Part 1 Chapters 1-3 [?]
 - Watch the MOOC, Part 1b: <https://reurl.cc/LdmortL>

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4 Turn in Exemplar articles

- Submit to ECourse: 3 Exemplar Articles
 - Submit as soon as possible so I can approve them
 - We will start using them next week
- See Textbook, Chapter 1, Homework (also on ECourse)
 - 3 Exemplar articles
 - pdf files, filename = short title of article
 - List of 3 references
 - Copied from Google scholar (or elsewhere)

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Assignments and grading

- See Assignments and grading standards (Ecourse2)
- Posted every week with assignment
- Assignment:

3 Exemplar (1%)
Please submit the exemplar articles as soon as you can, so you can start reading. The deadline is late since some may join the class late.

Homework, Chapter 1:
3 pdfs of exemplar research articles in your field.
Not conference papers, letters, survey articles, popular science.
Filename = shortened title of article (e.g. Spatial query integrity.pdf)
Not author/date, not the filename as downloaded from the journal.

Word file listing: 3 articles in reference format
(from Google scholar or equivalent) e.g.

References:
1) He, L., Xu, W., S. Bakiras, S. & Shabbab, C. (2011). Spatial query integrity with Voronoi neighbors. *IEEE Transactions on Knowledge and Data Engineering*, 25(4), 493-506.

2) Information about exemplar article 2)
3) Information about exemplar article 3)
Not the references listed in each article, just the source of each exemplar.
This may help you notice articles that are conference, letter, or review articles.

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Grading standards

- 50% for on-time submission plus:

Category/Criteria	0	10	20	30	40	50
3 pdfs of standard primary research articles						
3: 3 acceptable articles						
2: 2 acceptable articles						
1: 1 acceptable article						
0: 0 acceptable articles						
File names						
3: Shortened version of titles						
2: Full titles of articles						
1: Author and date						
0: Other format (e.g., download number)						
Word file listing references						
3: Complete references in the same format						
2: Complete references in different formats						
1: Incomplete or wrong references						
0: References not submitted						
Number of submissions to meet requirements						
5: One submission						
4: Two submissions						
3: Three submissions						
2: Four or more submissions						
1: Submission after deadline						
0: Not submitted, or not acceptable						

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5 Read: For next week class

- Read Chapters/Sections
 - 2 We will do exercises in class next week
- Optional
 - PPT introduction of Chapter 2: Supplemental materials
 - < 15 minute, summary of chapter
 - Watch the MOOC, Part 2: <https://reurl.cc/LdmortL>
 - Summary of chapter and how to do the exercise for next week

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Questions on assignment

- gerryrau@ccu.edu.tw
- TA

- Ask early!

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Bring to class next time

- 3 Exemplar articles
 - (Printed)
- Textbook
 - Ebook or Printed
- Laptop or tablet
 - MS Word

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Tuesday: Time

- Could we move the class 5-10 minutes earlier?
 - Currently 13:10 - 16:00
- Move to?
 - 13:05 - 15:55
 - 13:00 - 15:50

- Will give a few minutes for me to talk after class
- I have another class at 16:10

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