

Research and Academic Writing Method

Research: Step by Step

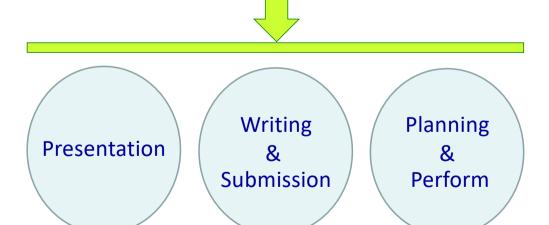
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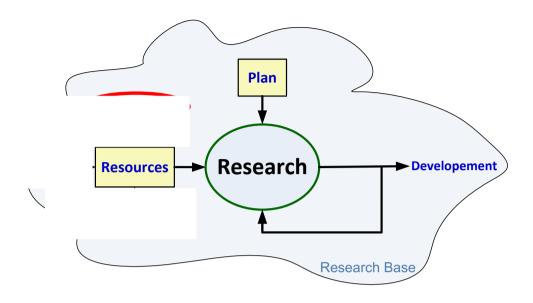
Spring 2024

Introduction

Research



Research as a Control System



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Why Research?

- Get an education degree
- Get a scholarship, a fund, a prize
- Get promotion
- Prove new ideas, find new solutions



Why Research?

- Improve your CV
- Become known as expert in an area



- Investigate rules, discoveries
- Develop new products, save costs, improve our life, ...

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Research Road!

- Realize existing ideas
- Present new/original research result
- Different solution for a problem



Research Road!

- Develop new algorithms/methodologies
- Confirm new algorithms/theorems
- Compare different methodologies
- Design new products



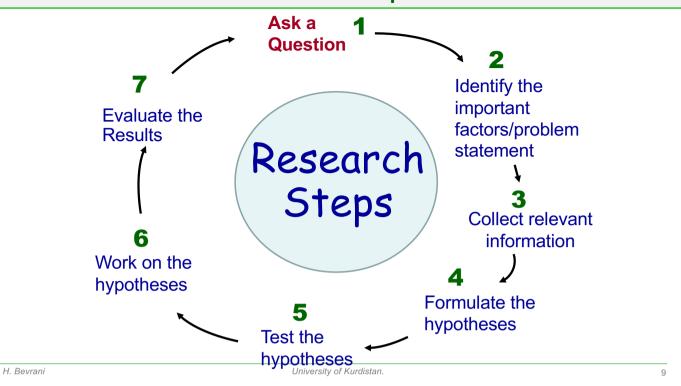
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Research Road!

- New application of the theorems
- Improve design of existing products
- Study on **new aspects**



Research Steps



Research Steps in Engineering



Research Steps in Engineering

Literature Review

Start: Choose a subject



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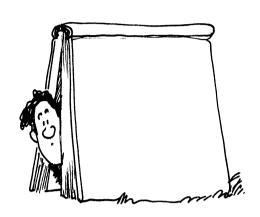
Literature Review

- Is it update?
- Is it a **credible** source?
- Is the subject relevant?



Literature Review

- Identify leading research groups
- Clustering
- References



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Research Steps in Engineering

Literature Review

Start:
Choose a subject

Writing Proposal



Proposal: Required Methods and Tolls

Finding useful Tools and Methods



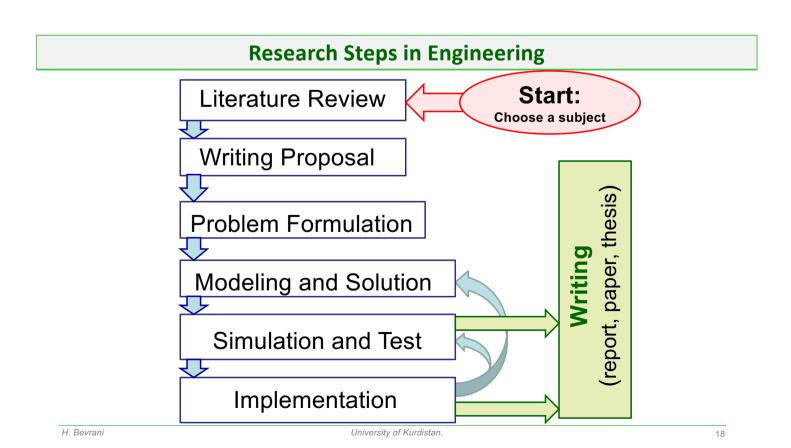
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Proposal: Timing Program

Activity				Mor	nth/	we	ek/	Day	S			
	1	2	3	4	5	6	7	8	9	10	11	12
1	Х	Х										
2		Х		Х		Х		Х		Х		
3			Х	Х	Х							
4				Х	Х	Х	Х	Х				
5							Х	Х	Х	Х		
6										Х	Х	Х



21:00-23:00	gram: Osaka University, A 14:00-19:00	ugust-September 2012 08:00-13:00	Date Day	
Boulgroundy Japer (14-	va) + review	Review & talks	8/20 Mo	
shintai (16	1216) + review	Review of talks	8/21 Tu	
, M	earney	Review	8/22 We	
N Japen (14:	~)	presentin	8/23 Th	
Tests & Lab shintailis	(~~)	talk with Achiena	8/24 Fr	
Review to	st in Lab	decument	8/25 Sa 8/26 Su	
	(14:00~)	Evaluation	8/27 Mo	
N Folise	S:~)	with prof Tsuji	8/28 Tu	
Test Party (5 pm	aluer you	daily meeting	8/29 We	
Think of Test shings (1	Wind view 7:30~ Manber 6:~	Wind view (09:30)	8/30 Th	
V Dr. Watan	abe	talk & see	8/31 Fr	
Study Kabi-san	(17:00~)	Katai	9/1 Sa 9/2 Su	
Evaluate Kagawa (12		Merting	9/3 Mo	
think of Test Meeting	with Prif. FRE	Pret, Mura	9/4 Tu	
Think d Test with	Minra Senger	Dr. Kagamer	9/5 We	
Evaluator Seminar (15:00) E1 or E3	surviver preparety	9/6 Th	
Evaluation meeting	(15~) MI+ KAGUMA	preparetien	9/7 Fr	
	mamoto Hotel Castel	Kumamoto trip	9/8 Sa	
	e back from Kumamoto	talks	9/9 Su 9/10 Mo	
Evaluation doc	umenta	decumentation	3/10 MO	
Name V	eura Prot.	Tsuj1 (12:00~~~)	9/11 Tu	
Tell of shaw	svaluer on	10:00 Kagawsan	9/12 We	
preparesting Pro	ts. Ise & Mura	Final check	9/13 Th	



Thank you!

