

# A Brief of **Literature Review and Research Methodology**

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# Discussion Pointers

1. State of the art
2. Literature Review
3. Related Work
4. Methodology
  - > Framework
  - > Architecture
  - > Protocol
  - > Design
  - > Algorithm

# Why: Literature Review important

- To avoid wasting of time, cost efforts & resource as “literature review is about giving perspective what has been done and where you are going”.
- To demonstrate a familiarity with a body of knowledge and establish credibility.
- To show the path of prior research and how a proposed research is linked to it.

# Review of information/literature

(A.Z. Quraeshi 2008)

- To integrate and summarize what is known in area
- To learn from others & energize new ideas
- Not “reinventing the wheel” – pertinent information already exists
- Comprehensive literature review-journal reviewers and editors are sure to catch
- We’ve got the references - worst part of writing a paper is when you are stranded for the one reference that you have lost
- Will be able to present new angles and twists to information that journals love

# Literature Review

How do we go about it?

- Get articles from online databases
  - > Scopus, ISI WoS
  - > Proquest/ ABI Inform
  - > Microsoft Academic, Lexis Nexis, Google Scholar
- Get related dissertations
  - > Dissertation Abstracts (full texts available online)
- Locate a recent article and check references/ bibliography
- Write to authors of articles

# Literature Review

- What research questions have been asked
- What research theories/approaches/concepts have been posed?
- How researchers have gone about answering these questions (variables, methods, measurements, etc.)?
- What they found?
- We must do so with an eye toward three specific questions:
  - > What substantive information can we glean?
  - > What methodological lessons can we learn?
  - > What specific location/geographical area can we relate?

Hands on

Literature review or related work

(discuss the examples)

# Hints: during the development literature review

- Don't collect arbitrary authors from the references.
- Don't write your literature review based on time.
- Use "According to ..." as minimum as possible.
- Collect the ideas and the relevant variables to your study from the references.
- Structure your literature review and follow the induction approach.
- Show your stand point and how you adapt the methods to your own approach



# Example of Related Work (see and identify the structure)

- ◉ Prior and Related Work in an [Intelligent Environment](#)
- ◉ [Active Office](#): Action Office for Knowledge Worker
- ◉ Related Work in [User Mobility](#)
- ◉ Related Work in [User Activity](#)

# Thinking of Methodology Deliverable

Contoh: ENHANCED SECURITY AGAINST SNIFFING ATTACK IN AD HOC NETWORK  
Sanam Ghorbani Lyastani (MC111272)

<b>Research Question</b>	<b>Project Objective</b>	<b>Activity</b>	<b>Deliverable</b>
<b>What are the various approaches to block sniffing attack?</b>	<b>To investigate various approach to block sniffing attack.</b>	<b>Literature Review: To identify the main methods.</b>	<b>Results of Literature Review: Identification of methods related to Sniffing prevention</b>
<b>How to adopt and adapt a method for securing ad hoc network against sniffing attack?</b>	<b>To proposed a method to enhance the security of ad hoc network against sniffing attack.</b>	<b>To design a method for sniffing prevention in ad hoc network</b>	<b>Proposed method: New sniffing prevention method</b>
<b>How to evaluate efficiency of proposed method?</b>	<b>To evaluate efficiency proposed method.</b>	<b>Compare different method</b>	<b>Analysis of the result</b>



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