

ANALYSIS PRINCIPLES

Over the past two decades, a large no. of **Analysis modeling methods** have been developed.

By **Analysing problems and their Causes**, investigators have developed a variety of

- **Notations and**
- **Corresponding Sets of Heuristics to overcome them.**

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Each analysis method has a unique point of view; However all analysis methods are related by a set of operational principles:

1. The information domain of a problem must be represented and understood.
2. The **functions** that the software is to perform must be **defined**.
3. The **behavior** of the software must be **Represented**.
4. The **Models** that **depict information, and behavior** must be **Partitioned** in a manner that uncovers detail in a layered (or **Hierarchical**) fashion.

5) The **Analysis process** should move from essential information towards **Implementation Detail**.

By applying these principles, an Analyst Approaches a problem **Systematically**.

A Set OF guiding principles for Requirement Engineering:

- **Understand** the problem before you begin to create the analysis model.
- **Develop prototype** that enable a user to understand how human/machine interaction will occur.
- **Record** the origin of and Reason for every Requirement.
- **Use multiple views of Requirements:** Building data, functional and behavioral models provide the SE with different 3 views.
- **Rank Requirements:** Tight deadlines may preclude the implementation of every Software Requirement. If an incremental process model is applied, those requirements to be delivered in the first increment must be identified.
- **Work to eliminate Ambiguity :-** As most of requirements are described in a natural language, the opportunity for ambiguity abounds. The use of formal technical reviews is one way to uncover and eliminate ambiguity.

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