

Requirements and Properties

Tom Rochette <tom.rochette@coreteks.org>

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0.1 Learned in this study

0.2 Things to explore

1 Overview

- Computation/Processing
- Memory
 - Storage
 - * Compression
 - Retrieval

2 Things it should do

- Improve algorithms
 - Receive an existing algorithm and be able to determine its purpose. With that in mind, optimize the algorithm so it is maximally efficient in both time and space
 - Learn which data structure is the most appropriate for a problem
 - * Inspect code and be able to figure out if the current data structure is the best one for its current use
- Improve data structures

3 Important properties

- Signal filtering (ignore non-essential data to reduce the domain size)
- Abstraction/simplification/class generation. Learn to group similar stimuli so that you do not have to learn about each of them individually.
- It should be constructive: modifying or adding new features should not require that its database be flushed/reset.