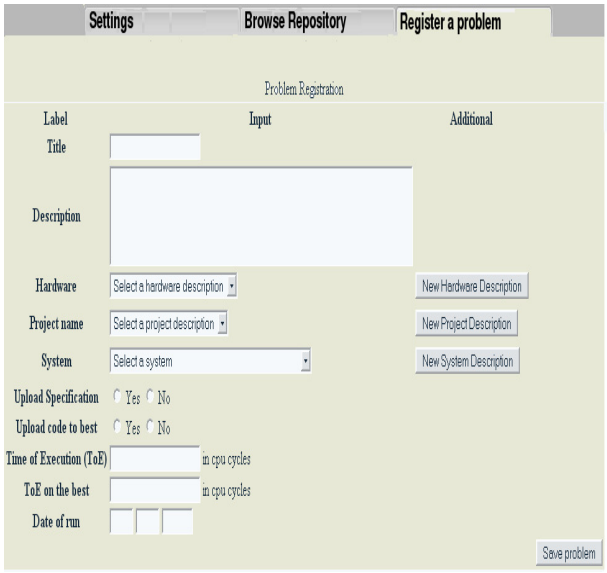
Problem Repository for Automatic Programming

What is it about?

Automatic Programming (AP) is simply put *systems that either through inductive reasoning or evolution come to several and complex programs based on a high level description.*

These systems undergo changes either as a natural result of the theory of evolution that they are build up on or because of, as any other software, their lifecycle. We have designed a set of tools that will give an overview on AP systems to the users and the authors.

The high level descriptions are what we call problems. To gain an historical perspective we propose to gather problems with the results of their run and the conditions around these results in a repository. Conditions around the result are data such as hardware the problem ran on, project which the problem might belong to, time it took to produce a code, bitsize of the code, etc. We believe that this will help to give a correct historical comparison between problems. These data can also contribute to other comparisons like for example; what version is good on which type of problems, how much impact does what type of hardware have, and etc.



Case study: Regressional testing

With regresional testing in mind we propose to analyze the results gained over time and by comparison show if a newer version of the AP system is improving. Further amongst other our proposition helps to understand the effects of any internal values an AP system is dependent on.

Repository; under the hood

The repository is a web applicaton. Which is made up of PHP (server side scripting), JavaScript (client side scripting) and HTML as the interface for the database (MySQL) that houses the gathered data.

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