Scope and Limitation

The study main focuses on solving Physics word problems that is stated in English. These Physics word problem includes problems in Electricity, Forces, Kinematics, and Work and Energy. These fields of Physics have underlining topics so to be specific we bound the system with the following:

* Electricity
* Voltage
* Current
* Resistance
* Circuitry
* Power Calculation
* Forces
* Newton’s Law of Motion
* Equilibrium
* Kinematics
* Speed
* Velocity
* Work and Energy Calculation

The solver will have information extraction system (IES) and named entity recognition system and the main approach will be machine learning specifically with the use of Hidden Marcov Model. Using machine learning in NLP will open new chapter in both fields.

The system will not cover other Physics topics not stated above. The cause of this boundary is Physics’ topics is too wide to cover for the system. Also, the system will not cover problems in other languages, because English as a universal language as a lot to experiment on and still growing. The system will not use other machine learning technique other that Hidden Marcov Model.