

**COMPARISON OF FOUR CONJUGATE GRADIENT METHOD
WITH EXACT LINE SEARCH**

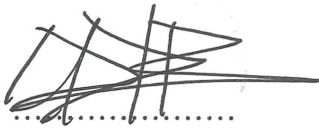
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DECLARATION

I certify this report and the project to which it refers is the product of my own work and that any idea or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with standard referring practices of the discipline.



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ABSTRACT

One of the best solution to solve unconstrained optimization problems is by using Conjugate Gradient(CG) method it is due to low memory requirement. Hence, it can be used to solve large problem. By using coefficient of CG(β_k) for this research, number of iteration and CPU time are calculated for every function with different method to compare the result which one is the best.

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