

MOEA Framework interaction with Bio-CPP in the context of Nucleic Acids/ Polypeptide Bio-Informatics & Computing towards Using – Java/JVM/Jikes RVM/C++/Genetic Algorithms.

[[A Free and Open Source Java Framework for Multiobjective Optimization](#)]

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[I] Introduction & Inspiration :

MOEA Framework interaction with Bio-CPP in the context of Polypeptide Informatics towards a Simple Suggestion Using – Java/JVM/Jikes RVM/C++/ Genetic Algorithms.

Source : <http://moeaframework.org/index.html>
Source : <http://biocpp.sourceforge.net/>

Inspiration :

http://www.sciencypress.com/Upload/JAMB/Vol%202_2_6.pdf

<https://www.cse.iitk.ac.in/users/sb/papers/a-talk.pdf>

<https://www.gwern.net/docs/biology/1993-fraenkel.pdf>

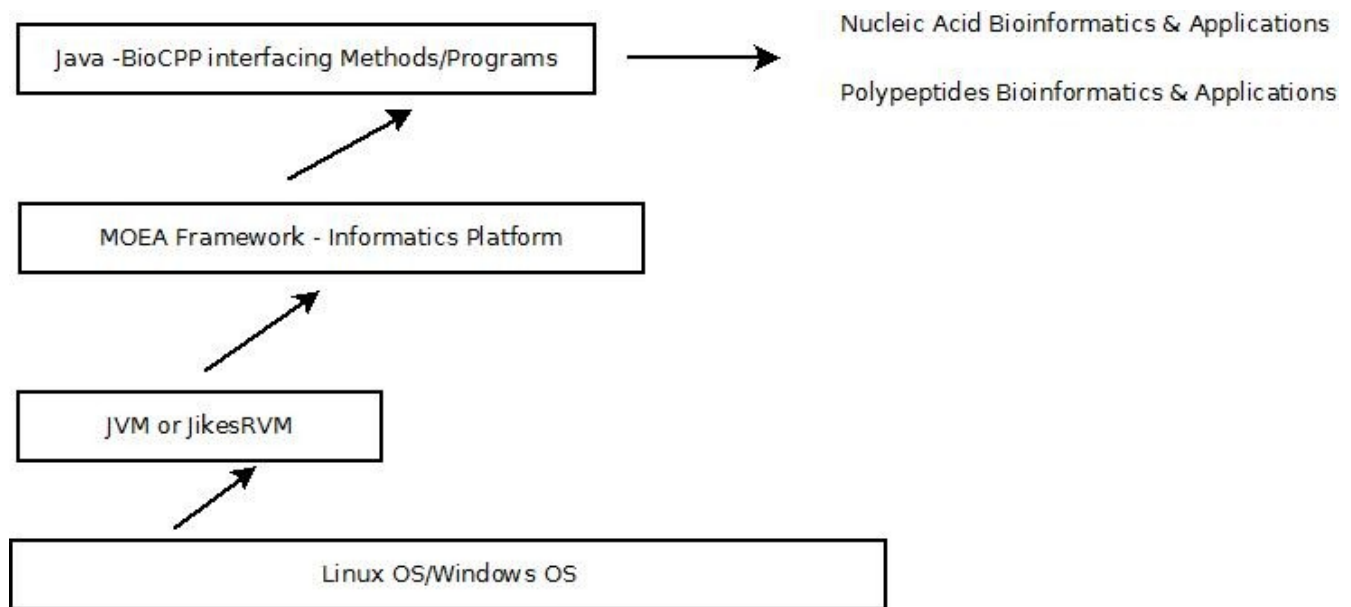
<http://vixra.org/abs/1901.0157>

<http://vixra.org/abs/1901.0377>

<http://vixra.org/abs/1901.0366>

<http://www.iict.bas.bg/docs/2014-citations-IICT.pdf>

[II] MOEA-Java-BioCPP Informatics Framework/s :



Approximate Bioinformatics Platform & Computing Framework

MOEA + BioCPP is an interesting approach in solving Bioinformatics Challenges

Fine Tuning is required - Please Check

Figure I – Our Bio-Informatics Computing Framework.

“The MOEA Framework is a free and open source Java library for developing and experimenting with multiobjective evolutionary algorithms (MOEAs) and other general-purpose single and multiobjective optimization algorithms. The MOEA Framework supports genetic algorithms, differential evolution, particle swarm optimization, genetic programming, grammatical evolution, and more .”

[<http://moeaframework.org/index.html>]

“The layout of the libraries follows defined file format I/O for persistence and utilizes and is written in standard C++ with the STL. The libraries are split into two main classes: XNA handles nucleic acids (DNA, RNA, and RNA secondary structure), and PRO handles polypeptides (poly amino acids, proteins, and structures).“

[<http://biocpp.sourceforge.net/scheme.html>]

Please Note : Please check & satisfy yourself. A Simple Suggestion.

THINK IN A DIFFERENT WAY ALWAYS.

[III] Information on Mathematics & Software Used :

[a] <http://biocpp.sourceforge.net/documentation/index.html>

[b] <http://biocpp.sourceforge.net/scheme.html>

[c] <https://sourceforge.net/projects/biocpp/>

[d] <http://moeaframework.org/index.html>

[e] <http://moeaframework.org/documentation.html>

[f] <http://moeaframework.org/examples.html>

[g] <http://moeaframework.org/features.html>

[h] <http://moeaframework.org/features.html#algorithms>

[i] <https://illigal.org/>

[j] <http://moeaframework.org/examples.html>

[IV] Acknowledgment/s :

Special Thanks to all ho made this happen.Non-Profit Academic R&D.

THE END