AN INTERESTING INSIGHT INTO POLYHEDRA COMPUTATION BASED ON PPL[(Parma Polyhedra Library in C++)/ImageJ/JIProlog/JikesRVM/Java/Eclipse-IDE] IN THE CONTEXT OF SOFTWARE DEVELOPMENT INVOLVING R&D OF [AI+COMPLEX SYSTEMS+CRYO-EM INFORMATICS] USING IoT/HPC FRAMEWORK.

[Probing Numerical Abstractions in Engineering/Physics/Biology/Image Processing Domains]

Nirmal
Independent Consultant : Informatics/Photonics/Nanotechnology R&D.
Current Member : ante Inst,UTD,Dallas,TX,USA.
email id : tejdnk@gmail.com

[I] Our Introduction & Inspiration :

https://www.bugseng.com/parma-polyhedra-library

https://www.bugseng.com/ppl-abstractions

http://vixra.org/author/nirmal [*http://vixra.org/abs/1803.0124*]

http://vixra.org/author/d_n_t_kumar

https://dspace.mit.edu/handle/1721.1/6060

http://theory.stanford.edu/~srirams/nsv/index.html

"Abstraction in Artificial Intelligence and Complex Systems

By Lorenza Saitta, Jean-Daniel Zucker

Springer Science & Business Media, 05-Jun-2013 - Computers - 484 pages"

"Abstraction is a fundamental mechanism underlying both human and artificial perception, representation of knowledge, reasoning and learning. This mechanism plays a crucial role in many disciplines, notably Computer Programming, Natural and Artificial Vision, Complex Systems, Artificial Intelligence and Machine Learning, Art, and Cognitive Sciences.It is the impact of abstraction in Artificial Intelligence, Complex Systems and Machine Learning which creates the core of the book. "

[Source: https://books.google.co.in/books?id=_Q1GAAAAQBAJ&dq=Numerical+Abstractions+stanford&source=gbs_navlinks_s]

https://www.cio.com/article/2436015/5-things-grady-booch-has-learned-about-complex-software-systems.html

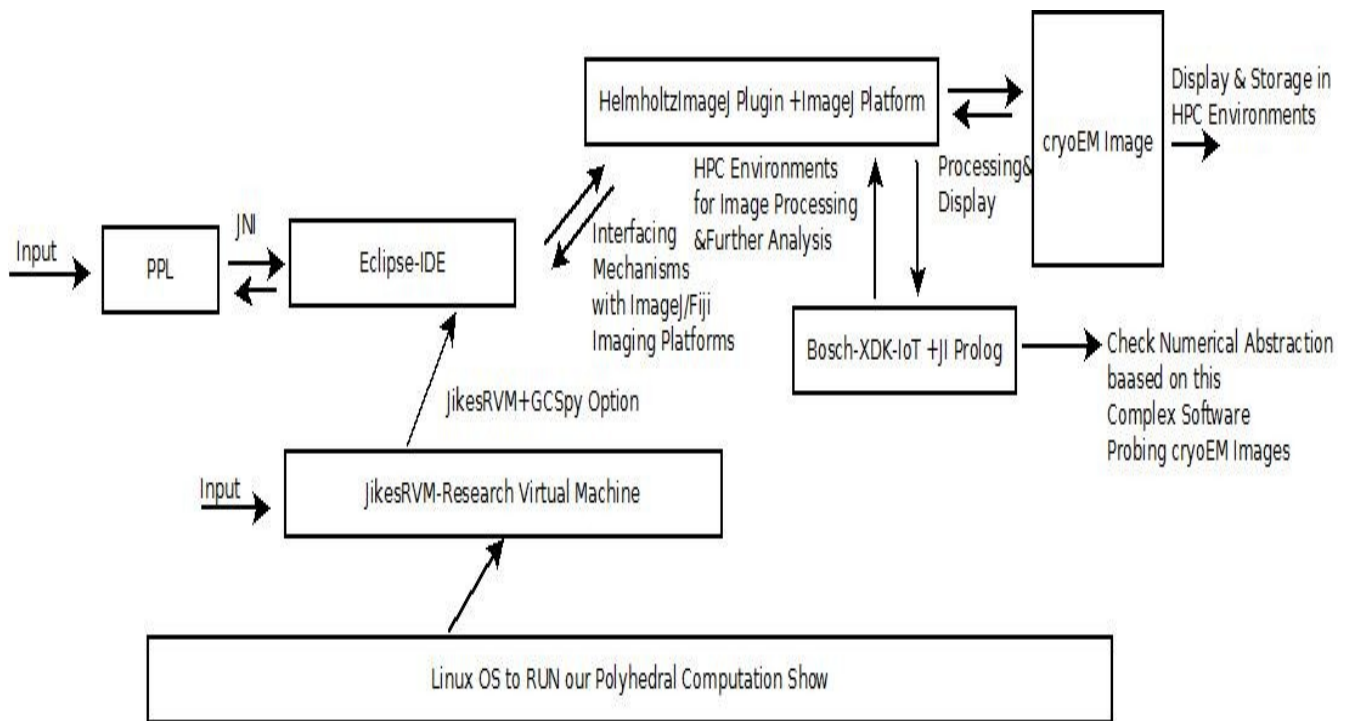http://www.drdobbs.com/testing/testing-complex-systems/240008913

***** Readers Please Note : Written in FREE STYLE. No specific format is followed.

Understanding JikesRVM in the Context of Cryo-EM/TEM/SEM Imaging Algorithms and Applications – A General Informatics Introduction from a Software Architecture View Point [Source: DOI: 10.5958/0975-8089.2016.00001.4]

Formalizing Image Processing in Higher Order Logic(hol) by Understanding and Using XML-Hol-Scala-JVM Software Framework Towards Processing of Cryo-Em/tem/sem Images Based on Levy Processes a Novel Suggestion. [Source : https://www.semanticscholar.org/author/D.N.T.Kumar/72428440]

https://www.hpl.hp.com/techreports/2006/HPL-2006-2.pdf

[II] Our Informatics Framework :

Figure I – Our Total Overview & Practical Algorithm/Suggestion. Actual Implementation will vary to some extent. Please Check. We are not endorsing any commercial product/s here there could be other options as well.

[Rigorous Testing in progress at the time of submission]

[III] Our Important Information on Mathematics & Software Used/Useful :

http://vixra.org/author/nirmal_tej_kumar
http://vixra.org/author/nirmal
http://vixra.org/author/n_t_kumar

http://vixra.org/author/d_n_t_kumar
https://www.semanticscholar.org/author/Nirmal-Tej-Kumar/12354503/suggest
https://en.wikipedia.org/wiki/Polyhedron
http://mathworld.wolfram.com/Polyhedron.html

https://www.bugseng.com/parma-polyhedra-library
http://www.netlib.org/polyhedra/
www.ece.drexel.edu/walsh/JayantCHM.pdf

ftp://ftp.math.ethz.ch/users/fukudak/reports/polyfaq040618.pdf
https://cs.uwaterloo.ca/~alubiw/polyhedra.html
https://www.inf.ethz.ch/personal/fukudak/lect/pclect/notes2014/polycomp_intro.pdf
https://www.cs.mcgill.ca/~fukuda/soft/

http://www.jiprolog.com/
https://www.jikesrvm.org/
https://www.eclipse.org/
https://imagej.nih.gov/
https://fiji.sc/

https://www.bugseng.com/content/documentation
https://casmodeling.springeropen.com/articles/10.1186/2194-3206-1-2

https://www.gribble.org/papers/robust.pdf

[IV] Our Acknowledgment/s :

THE END.