

Testing Enzyme Automatic Differentiation Framework w.r.t LLVM & GCCS →

-> [A Simple Suggestion Using Julia + LLVM & C Programs Generated by Gentile Compiler Construction System + CLIPS – Expert System to Probe Space & Medicine R&D Domains] -> Exploring AI/ML/DL/Minsky Machines Algorithms.

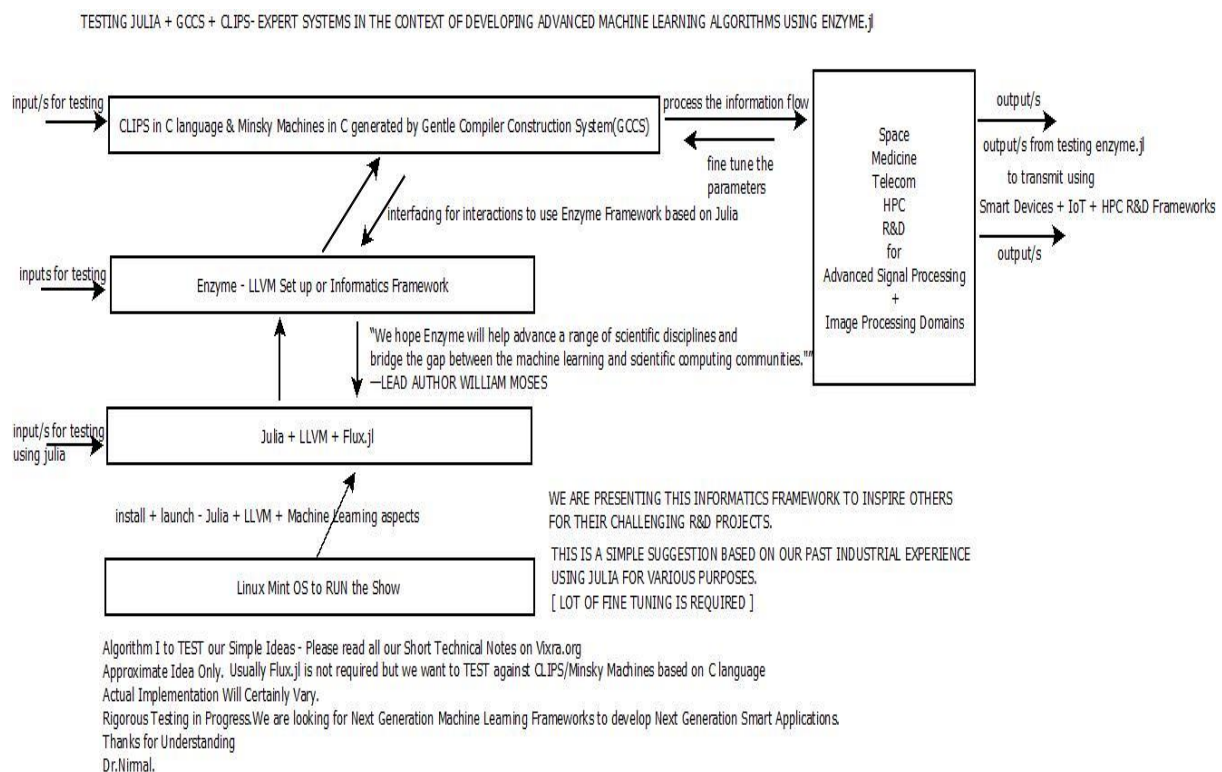
Nirmal

Current Member – ante Inst UTD Dallas TX USA

Contact_info – hmfg2014@gmail.com

[I] Main Idea based on our Inspiration :

“We hope Enzyme will help advance a range of scientific disciplines and bridge the gap between the machine learning and scientific computing communities.”— LEAD AUTHOR WILLIAM MOSES.



[Figure I – Simple Idea to TEST Enzyme Tool w.r.t C Programs]

[II] Important References :

- [a] <https://vixra.org/pdf/1907.0201v1.pdf> -> Julia Language
- [b] <https://vixra.org/pdf/1901.0445v1.pdf> -> Minsky Machines
- [c] <https://vixra.org/pdf/1910.0163v1.pdf> -> Julia Language
- [d] <https://vixra.org/pdf/1908.0073v1.pdf> -> Julia Language
- [e] <https://vixra.org/pdf/1908.0073v1.pdf> -> Julia Language
- [f] <https://github.com/wsmoses/Enzyme.jl> -> Enzyme Software from MIT USA.

[III] Important R&D Software :

- [a] <https://juliahub.com/ui/Packages/Flux/QdkVy/0.11.2>
- [b] https://esolangs.org/wiki/Minsky_machine
- [c] <https://www.csail.mit.edu/news/more-compatible-coding-machine-learning>
- [d] <http://gentle.compilertools.net>
- [e] <https://llvm.org> && <https://github.com/maleadt/LLVM.jl>
- [f] <https://en.wikipedia.org/wiki/CLIPS>
- [g] <http://www.clipsrules.net> -> CLIPS Expert System in C Language.

“Developed at NASA’s Johnson Space Center from 1985 to 1996, the C Language Integrated Production System (CLIPS) is a rule-based programming language useful for creating expert systems and other programs where a heuristic solution is easier to implement and maintain than an algorithmic solution. Written in C for portability, CLIPS can be installed and used on a wide variety of platforms. Since 1996, CLIPS has been available as public domain software.”

- [h] <https://web.media.mit.edu/~minsky/>

[IV] Acknowledgement/s :

Sincere Thanks to all WHO made this happen in my LIFE. Non-Profit R&D.

[THE END]