Probing + Understanding -> Towards Obtaining Excellent Quality MRI Images Using DICOM + Expert Systems -> Testing Smart Devices + QRNG/mruby + IoT + HPC Systems -> in the Context of Using CLIPS-Ruby Engine + ImageJ + ImageJ/MRI Plug-in + JikesRVM-Research Virtual Machine + JRuby.

[Exploring Dynamic Data Race Detection Algorithms for Image Processing R&D]

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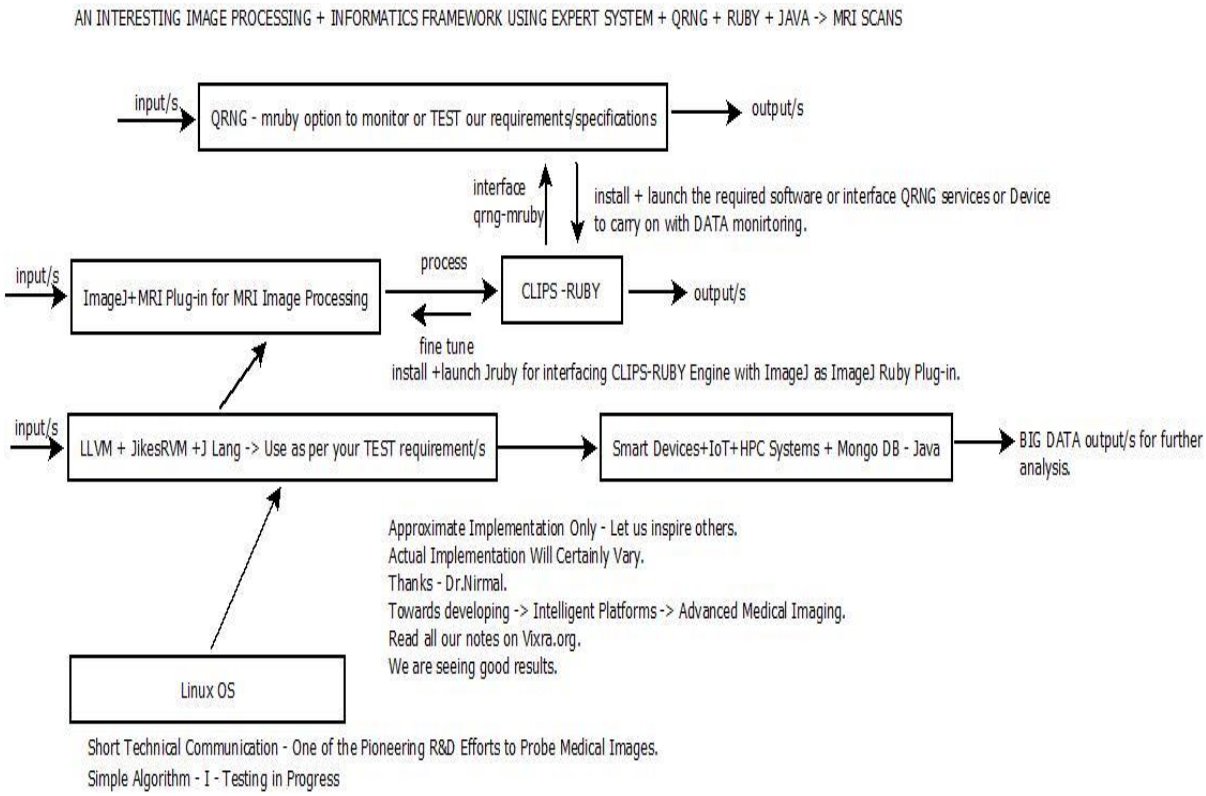
[I] Abstract + Main Idea + Inspiration + Informatics R&D Framework :



[Figure I – Expert System – Image Processing Framework]

"Dynamic data race detection incurs heavy runtime overheads. Recently, many sampling techniques have been proposed to detect data races. However, some sampling techniques (e.g., Pacer) are based on traditional happens-before relation and incur a large basic overhead. Others utilize hardware to reduce their sampling overhead (e.g., DataCollider) and they, however, detect a race only when the race really occurs by delaying program executions. "

[Source - https://dl.acm.org/doi/10.1145/2950290.2950310]

[II] Software Tools for our R&D Informatics Framework :

[a] https://polyglot-compiler.github.io/JLang/developer-guide.html

[b] https://www.jruby.org

[c] https://imagej.nih.gov/ij/index.html + https://imagej.nih.gov/ij/plugins/mri-analysis.html

[d] http://www.wmis.org/abstracts/2013/data/papers/P267.htm#

[e] https://imagej.net/MRIPerfusion.html

[f] https://github.com/bfoz/clips-ruby

[g] https://qrng.physik.hu-berlin.de/

[III] Our Related References via Vixra.org + Other Sources :

[a] https://github.com/tejdnk-2019-ShortNotes/Testing-EM-Images

[b] https://deepai.org/profile/tejdnk-deepai

[c] https://vixra.org/abs/1803.0124

[d] https://www.semanticscholar.org/author/Nirmal-Kumar/12354503

[e] https://vixra.org/abs/1907.0306 - mruby/qrng etc....

[IV] Acknowledgement/s :

Sincere Thanks for the encouragement received from all my Mentors + Friends + Collaborators.

Non-Profit R&D.

[THE END]