

{ Wavelets + OpenCV + Imaging Mathematics + Tensor Flow [ML] Using : Haskell + HOL-Isabelle/Haskabelle + Antlr + JikesRVM [RVM] + LLVM w.r.t Medical Imaging [DICOM/MRI Scans] based on RaspberryPI + BoschXDK-IoT + Zerynth-IoT + HPC Heterogeneous Systems -> A Short Technical Note }

[Exploring & Highlighting : LLVM & RVM & ML & Functional Programming Languages & HOL Theorem Proving Aspects]

Nirmal - Informatics R&D Collaborator - USA/UK/Germany/Italy/Israel/Jordan/BRICS Group of Nations.
Current Member - ante INST UTD Dallas TX USA.
Contact_info - hmfg2014@gmail.com

[I] Main Idea + Inspiration + Introduction :

[a] <https://github.com/tejdkn-2019-ShortNotes>

[II] R&D Informatics Framework :



RVM + LLVM + Tensor Flow as our Informatics R&D Framework.
Wavelets to TEST Smart Devices + IoT + HPC w.r.t HARDware + Firmware + Software -> to check the quality of MRI Scans/DICOM based
Approximate Idea only.
Rigorous Testing In Progress @ the TIME of Submission.
Thanks for understanding - Dr.Nirmal.
Please Check & Satisfy Yourselves -> before proceeding to TEST our idea/s.

We have already mentioned online a number of examples for your information on github & Vixra.org.
Please read.
Thanks for your encouragement.

Keep Hacking more ideas....Inspire others.....

[Algorithm I - Advanced Medical Imaging R&D Framework -> Towards Probing DICOM/MRI Scans]

[Figure I - Algorithm I]

[III] Useful + Important References :

[a] <https://isabelle.in.tum.de/website-Isabelle2009/haskabelle.html>

[b] <https://www.cronburg.com/2018/antlr-haskell-project/>

[c] <https://www.volkerschatz.com/science/haswavelet.html>

[d] <https://hackage.haskell.org/package/HOpenCV> && <https://opencv.org/opencv-4-5-4/>

[e] https://wiki.haskell.org/Raspberry_Pi && <https://www.zerynth.com/>

[f] <https://bosch-iot-suite.com/tutorials/xdk-cloud-connectivity/>

[g] <https://www.iot-lab.info/> && [h] <https://wiki.haskell.org/AI> && <https://mmhaskell.com/machine-learning>

[i] https://www.reddit.com/r/haskell/comments/10nast/is_haskell_a_good_language_to_develop_artificial/

[j] <https://www.jikesrvm.org/> - RVM -> **Research Virtual Machine - an excellent platform to TEST challenging ideas.**

[IV] Acknowledgment/s:

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

[V] Conclusion/s + Future Perspectives :

Promising & Interesting Approach -> Using : AI + JVM/RVM + LLVM + FPL + Theorem Proving w.r.t Advanced Medical Images Processing.

[THE END]