Julia – Advanced Medical Image Processing w.r.t COVID-19 Chest X-Rays/Dataset -> An interesting introduction to Julia based Medical Image Processing with Machine Learning.

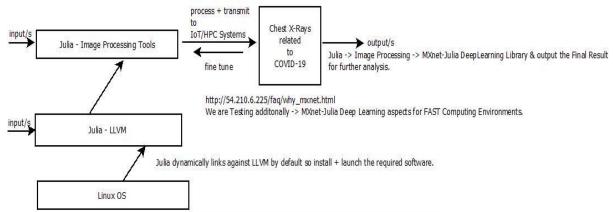
[Exploring PETASCALE Computing Using Julia in the Context of CORONA VIRUS Related R&D involving Chest X-Rays]

Nirmal

Current Member ante Inst UTD Dallas, TX, USA.

[I] Informatics R&D Framework:

AN ADVANCED MEDICAL IMAGE PROCESSING + INFORMATICS FRAMEWORK USING JULIA + DEEP LEARNING TECHNICAL CONCEPTS ONE OF THE PIONEERING R&D EFFORTS.



A SIMPLE IMAGE PROCESSING & INFORMATICS FRAMEWORK FOR COVID-19 RELATED CHEST X-RAYS/DATASET USING JULIA

TO TEST IMAGE PROCESSING ALGORITHMS IN THE PETASCALE COMPUTING ENVIRONMENTS.

Testing in Progress with Good Results.

Please Check all our Short Communications presented via Vixra.org Website.

Thanks - Dr.Nirmal.

[Figure I – Image Processing Algorithm I]

Non-profit R&D Only. Thanks to all my Mentors + Friends + Collaborators.

[II] Useful Short Technical Notes on Julia from Vixra.org:

- [a] https://vixra.org/pdf/1907.0201v1.pdf
- [b] https://vixra.org/abs/1907.0397
- [c] https://juliaimages.org/latest/
- [d] https://julialang.org/research/
- [e] https://github.com/JuliaImages/Images.jl
- [f] Julia: A Fresh Approach to Numerical Computing. Jeff Bezanson, Alan Edelman, Stefan Karpinski, Viral B. Shah. (2017) SIAM Review, 59: 65–98. doi: 10.1137/141000671. pdf.
- [g] https://github.com/ieee8023/covid-chestxray-dataset/blob/master/images/000001-9-b.jpg
- $[h] \ \underline{https://www.vixra.org/author/nirmal_tej_kumar} \ \ \textbf{Multi-disciplinary R\&D Technical Notes.}$
- [i] https://www.vixra.org/abs/2004.0379 Cameras/Sensors/Noise in Images.
- [j] MXNet Julia API Deep Learning for various computing tasks.

[THE END]