A Set of Mathematical & Software R&D Tools w.r.t Rust + Z3-rs Programming -> Probing Advanced Image Processing Algorithms in the Context of DICOM/MRI Scans/Hardware/ Firmware/Software - A Short Technical Communication to Monitor or Verify the Overall Performance Using : SSG + Monte Carlo + SVMs + Minsky Machines + AI.

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[I] Main Idea + R&D Technical Information :

“https://www.reddit.com/r/rust/comments/5y4x9r/challenge_rusts_type_system_is_not_turing_complete/ “ -> An Excellent Challenge.

https://github.com/tejdnk-2019-ShortNotes/AI-S-T-Applications/blob/main/CUBESAT-Rust-Nir-21.pdf*

[a] Rust Programming Language : https://www.rust-lang.org/

[b] Z3-rs : https://github.com/prove-rs/z3.rs

[c] DICOM : https://github.com/Enet4/dicom-rs

[d] MRI Scans/Medical Imaging : https://enet4.github.io/mmir-meets-rust/#/

[e] Rust & its Related Tools ->

https://github.com/tejdnk-2019-ShortNotes -> Plenty of Examples for your use.*

[f] AI + ML + DL : https://blog.logrocket.com/machine-learning-in-rust-using-linfa/

[g] HPC & IoT & Smart Devices based Informatics : [e] -> Please check our examples.

[h] Sobol Sequence Generator - [SSG] : https://github.com/Wsiegenthaler/sobol-rs

[i] Monte Carlo Simulations/Algorithms : https://pm-powerconsulting.com/blog/webassembly-markov-chain-monte-carlo/

[j] Photon + WASM w.r.t Rust based Image Processing : https://silvia-odwyer.github.io/photon/

[k] RUX - Rust Microkernel for SD Testing w.r.t Embedded Systems : https://github.com/sorpaas/rux

[l] Xilinx - SSG : https://xilinx.github.io/Vitis_Libraries/quantitative_finance/2020.1/guide_L1/SobolRsg/sobolrsg.html*

[m] FFSVM & libSVM : https://docs.rs/ffsvm/0.8.0/ffsvm/ && **[n] Mongo DB-rs** : https://github.com/mongodb/mongo-rust-driver

[II] A Simple Diagram to Generate Your Own R&D Image Processing Algorithms for Testing :

So Friends What are you waiting for ?

Please take a look @ our reference : https://github.com/tejdnk-2019-ShortNotes/AI-S-T-Applications/blob/main/CUBESAT-Rust-Nir-21.pdf*

Rigorous Testing in Progress @ the TIME of submission.Keep Hacking ----- Try Novel Methods Always.

Thanks for understanding - Dr.Nirmal.

{ ***Non-Profit R&D + Inspire others always + Sincere Thanks to ALL }***

[THE END]