# Testing Photon to Explore RUST Programming Language w.r.t intel's Movidius + Other Smart Devices + IoT + HPC Systems + Rust Machine Learning Tools + Ur/Web in Heterogeneous Computing Environments R&D.

**[ Using Fractals/NLP + Photon Web Assembly + UR/Web RUST Tools for Advanced Medical Imaging Research ]**


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**[I] Main Idea + Inspiration + Introduction :**

https://www.rust-lang.org/ → Highly interesting language for Future R&D Domains in the context of Advanced Medical Imaging Platforms.

https://github.com/tejdnk-2019-ShortNotes/2021-Nir-Informatics/blob/main/AVNET-U96-Ruby-Nir-21.pdf

https://github.com/tejdnk-2019-ShortNotes/2021-Nir-Informatics/blob/main/Python-U96-Zynq-Nir-21.pdf

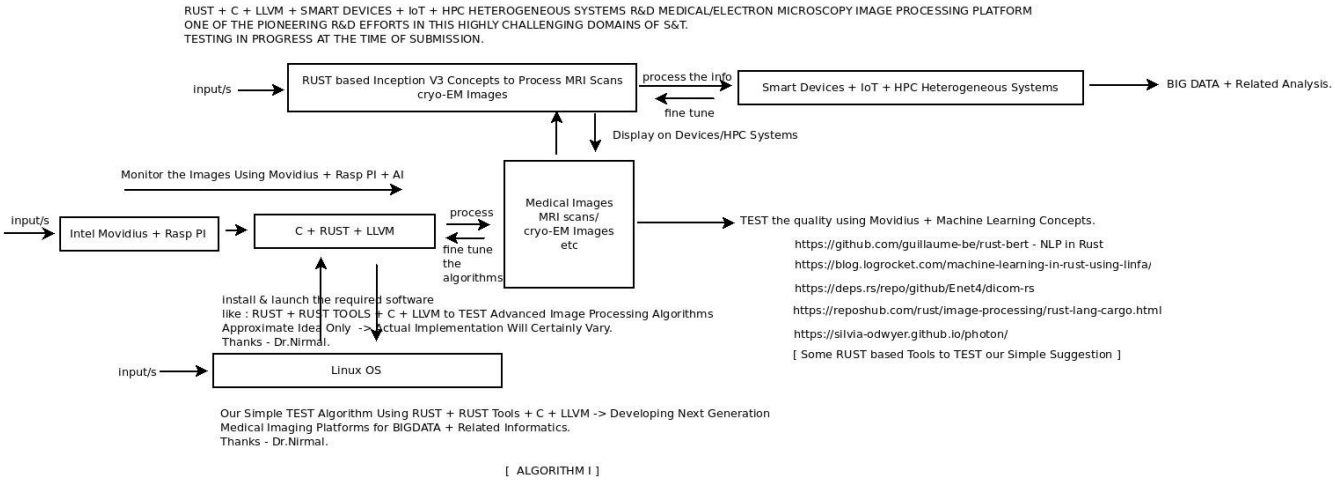
https://github.com/tejdnk-2019-ShortNotes/2021-Nir-Informatics/blob/main/RUST-U96-Nir-21.pdf

**Information on Rust Programming Language :**

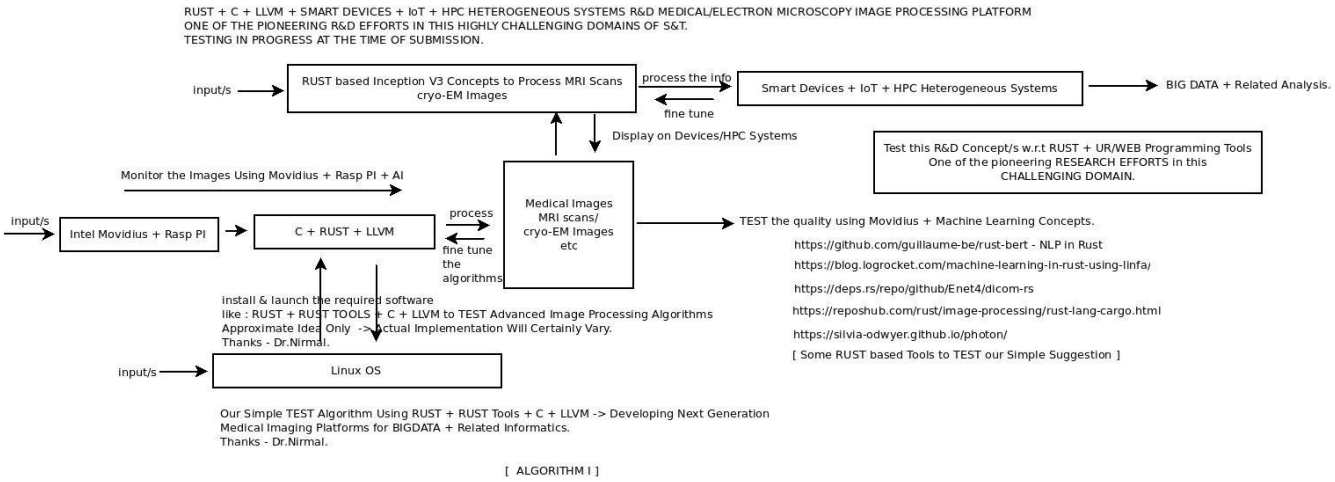
"Rust is a multi-paradigm programming language designed for performance and safety, especially safe concurrency.[17][18] Rust is syntactically similar to C++,[19] but can guarantee memory safety by using a borrow checker to validate references.[20] Rust achieves memory safety without garbage collection, and reference counting is optional.[21][22]
Rust was originally designed by Graydon Hoare at Mozilla Research, with contributions from Dave Herman, Brendan Eich, and others.[23][24] The designers refined the language while writing the Servo layout or browser engine,[25] and the Rust compiler. It has gained increasing use in industry, and Microsoft has been experimenting with the language for secure and safety-critical software components.[26][27]

Rust has been voted the "most loved programming language" in the Stack Overflow Developer Survey every year since 2016.[28] " - [ Source - https://en.wikipedia.org/wiki/Rust_(programming_language) ]

## [II] RUST Based Hardware + Software R&D Imaging & Informatics Framework :




**[ Figure I – Algorithm I – RUST based R&D Informatics Framework ]**




**[ Figure II – Algorithm II – Modified Algo I RUST based R&D Informatics Framework ]**

**We are not explaining how to use RUST + Ur/Web here. Please make a note. Thanks.**

**Some important info on RUST + UR/WEB :**

[a] https://github.com/sheganinans/urweb-rs ***

[b] https://github.com/tejdnk-2019-ShortNotes/2021-Nir-Informatics/blob/main/Ruby-Wlet-SVM-CA-M-Img-UrWeb-2021.pdf ***

**[III] Some Important References :**

https://www.rust-lang.org/what/wasm

https://silvia-odwyer.github.io/photon/

https://www.researchgate.net/publication/319250589_Writing_high_parallel_medical_image_computation_software_with_Mozilla's_Rust

https://enet4.github.io/mmir-meets-rust/#/

https://github.com/tejdnk-2019-ShortNotes/tejdnk-Space-Medicine-Informatics-github.io/blob/master/Web-Assembly-Img-Nir-2021.pdf

https://github.com/tejdnk-2019-ShortNotes → Many interesting links → Very Useful.

https://medium.com/@matriXanger/image-recognition-with-owl-a5a6d0caef33

**[IV] Acknowledgment/s :**

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

**[V] Conclusion/s With Future Perspectives :** Excellent Notes on RUST and its promising features w.r.t Advanced Medical Imaging + Intelligent Informatics R&D Platforms.

**[ THE END ]**