

Understanding Photon - A High Performance Image Processing Library To Explore RUST Programming Language & its Capabilities w.r.t intel's Movidius + Other Smart Devices + IoT + HPC Systems + Related AI Tools in Heterogeneous Computing Environments R&D.

[Using Fractals + NLP + Photon Web Assembly 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>

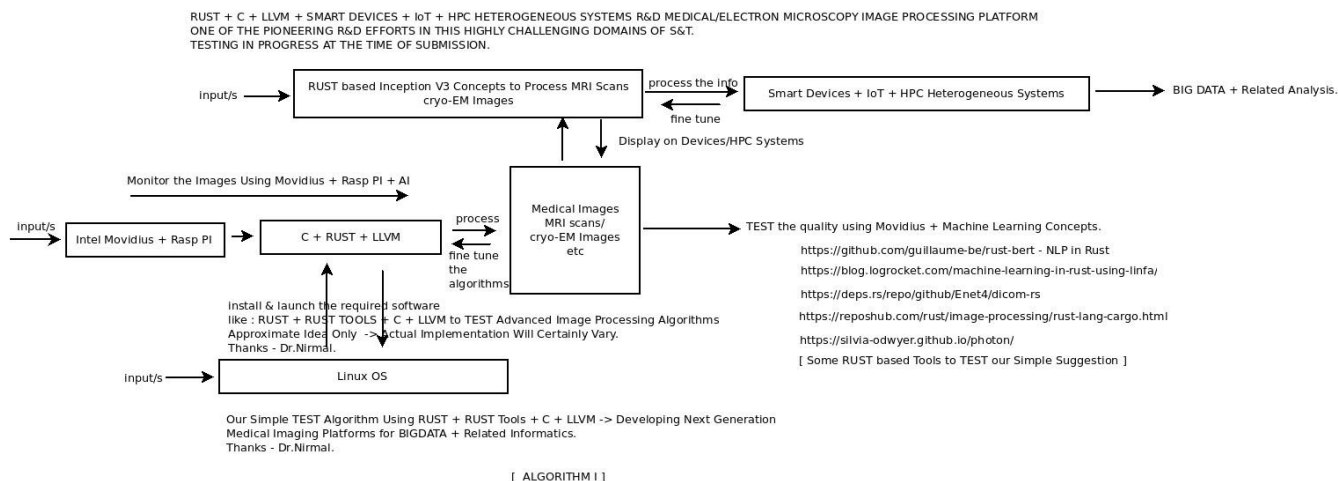
Information on Rust Programming Language :

“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_\(programming_language\)](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]

[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]