

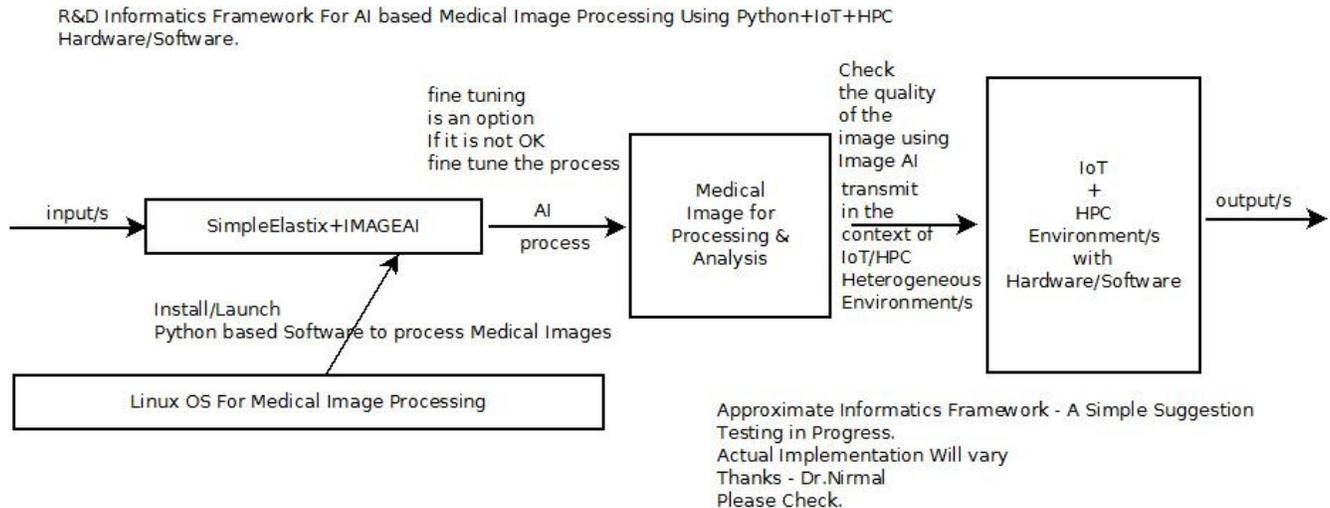
Medical Images Registration Concepts in the Context of Following Software involving [SimpleElastix+IMAGEAI] for IoT/HPC Heterogeneous Environment/s – An Interesting Investigation Using AI+Python.

[Exploring Simple Elastix : Medical Image Registration Library + ImageAI -Python based AI Library]

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[I] R&D Informatics Framework in the Context of Medical Image Processing Using AI+Python :



[Figure I – Simple Informatics Framework – Python based Image Processing+AI Related Tasks]

“ SimpleElastix is an extension of SimpleITK that includes the popular elastix C++ library. Elastix is a modular collection of high-performance medical image registration algorithms, for which SimpleElastix automatically generates bindings for Python, Java, R, Ruby, Octave, Lua, Tcl and C#. This makes state-of-the-art registration really easy to do in your favorite programming environment. “

“ImageAI -State-of-the-art Recognition and Detection AI with few lines of code.”

<https://www.radiologybusiness.com/topics/artificial-intelligence/machine-learning-could-enable-medical-image-registration-during>

[news.mit.edu > faster-analysis-of-medical-images-0618](https://news.mit.edu/2018/faster-analysis-of-medical-images-0618)

[https://www.aaai.org > index.php > AAAI > AAAI17 > paper > download](https://www.aaai.org/index.php/AAAI/AAAI17/paper/download)

[https://www.rsna.org > news > April > roadmap-for-AI-in-medical-imaging](https://www.rsna.org/news/April/roadmap-for-AI-in-medical-imaging)

[https://www.ncbi.nlm.nih.gov > pmc > articles > PMC6268174](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6268174)

<https://www.aitrends.com/healthcare/machine-learning-in-medical-imaging-and-analysis/>

For more information - Please go to deepsense.ai.

[II] Related R&D Information on Mathematics & Software Used :

[a] <https://github.com/SuperElastix/SimpleElastix>

[b] <http://simpleelastix.github.io/>

[c] <https://towardsdatascience.com/the-story-and-future-of-imageai-one-year-anniversary-e63c80f527c8>

[d] http://vixra.org/author/nirmal_tej_kumar

[e] <http://vixra.org/author/nirmal>

[f] [vixra.org > author > n t kumar](http://vixra.org/author/n_t_kumar)

[g] [vixra.org > author > d n t kumar](http://vixra.org/author/d_n_t_kumar)

[h] [vixra.org > author > dnt kumar](http://vixra.org/author/dnt_kumar)

[i] **[Formalizing Image Processing in Higher Order Logic\(hol\) by ... - viXra](https://www.vixra.org/abs/viXra.org%20Digital%20Signal%20Processing%20viXra:1709.0412)**
[https://www.vixra.org > abs viXra.org > Digital Signal Processing > viXra:1709.0412](https://www.vixra.org/abs/viXra.org%20Digital%20Signal%20Processing%20viXra:1709.0412).
Authors: *D.N.T.Kumar*.

[j] <http://vixra.org/abs/1709.0389>

[THE END]