A Short Communication & Technical Notes on – Developing Novel Image Processing Algorithms Using – [MarvinJ+JSON+IMAGEAI+Z3 API in Python(Theorem Prover)] in the Context of Next Generation Medical Image Processing Software/Cryo-EM Image Processing Software Architecture R&D for [AI/IoT/HPC/Mobile Systems] Heterogeneous Environment/s

Nirmal Tej Kumar

Independent Consultant : Informatics/Imaging/AI/Photonics/Nanotech/HPC R&D.
R&D Collaborator : USA/UK/Israel/India/South Korea/Brazil.
Current Member : ante Inst,UTD,Dallas,TX,USA.
email id : hmfg2014@gmail.com

[I] Inspiration & Introduction :

MarvinJ is a pure javascript image processing framework derived from Marvin Framework. This front page gives you a glimpse of how easy and powerful is MarvinJ for many different image processing applications.
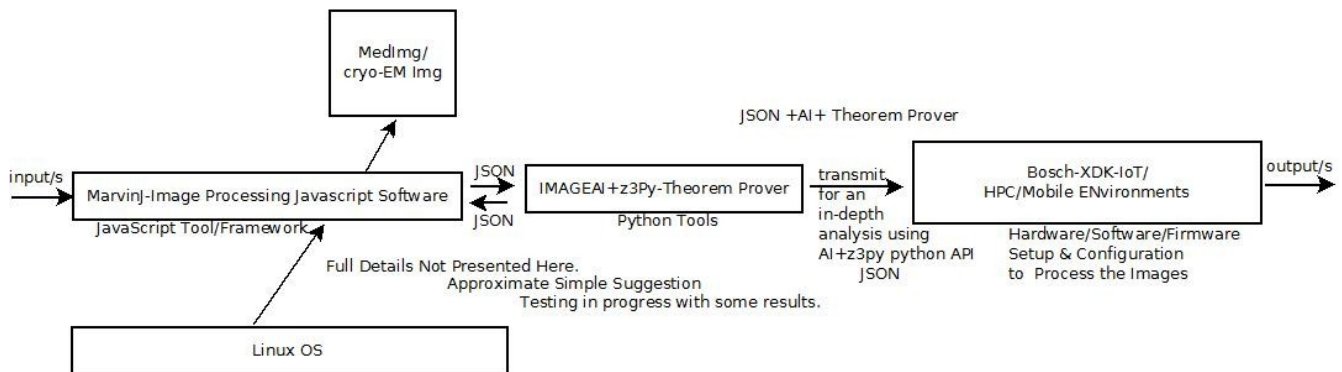[Source : https://www.marvinj.org/en/index.html]

https://ericpony.github.io/z3py-tutorial/guide-examples.htm – z3py Theorem Prover Information.

https://ece.uwaterloo.ca › ~agurfink › stqam › z3py-advanced

https://cloud.google.com › vision

http://imageai.org/ – *IMAGEAI-Python Based AI Library -Excellent Python Tool .*

hgoebl.github.io › mobile-detect –mobile-detect.js | Device detection (phone, tablet, desktop, mobile .

[II] Experimental R&D Imaging+Informatics Framework :

INTERFACING JAVASCRIPT SOFTWARE via JSON WITH IMAGEAI+Z3PY THEOREM PROVER TO IMPLEMENT - IoT/HPC/MOBILE SYSTEMS

ALGORITHM I - MARVINJ+JSON+IMAGEAI+Z3PY PYTHON API TOWARDS ADVANCED IMAGE PROCESSING APPLICATIONS IN THE CONTEXT OF MEDICAL IMAGES & CRYO-EM IMAGES .
PLEASE CHECK & SATISFY.ACTUAL IMPLEMENTATION MIGHT VARY TO SOME EXTENT -READ ALL THE LITERATURE.
Thanks - Dr.Nirmal.

[Figure I – Algorithm I – Describing Our Simple Suggestion – by Exploring –
JavaScript+JSON+Python+AI+ Python based Theorem Prover for
Advanced Image Processing Applications R&D]

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

 [i] http://vixra.org/author/nirmal_tej_kumar
 [ii] http://vixra.org/pdf/1709.0412v1.pdf –**Formalizing Image Processing** –**Very much important**.
 [iii] http://vixra.org/abs/1909.0009
 [iv] http://vixra.org/abs/1908.0356
 [v] http://vixra.org/abs/1812.0454
 [vi] http://vixra.org/abs/1905.0540

[IV] Acknowledgment/s :

Special Thanks to all WHO made this happen in my LIFE. Non–Profit R&D.

[V] Conclusion With Future Perspectives :

A Simple but useful & promising AI/IoT/HPC/Mobile Systems in the context of above mentioned Software+Mathematics is presented.

[VI] References :

[a] D.N.T. Kumar and Gagik Sh.,Understanding JikesRVM in the Context of Cryo–EM/TEM/SEM Imaging Algorithms and Applications –A General Informatics Introduction from a Software Architecture View Point Vol. 7, Issue 1, January–April, 2016 (IJARITAC) 1–7.DOI: 10.5958/0975–8089.2016.00001.4

[b] Nirmal Tej Kumar,An Insight into Cryo–EM Imaging Process Architecture Using GENTLE Compiler Construction System with an Informatics Design Paradigm.Vol. 7, Vol.Issue May–August,2016 (IJARITAC)80–89. DOI: 10.5958/0975–8089.2016.00008.7

[c] http://cryoem.berkeley.edu/cryoem

[d] *https://www.json.org* – JSON –*JSON* (JavaScript Object Notation) is a lightweight data–interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate.

[e] https://github.com/RealTimeLogic/JSON

[f] https://xdk.bosch–connectivity.com –Home – XDK – Bosch Connected Devices and Solutions
    https://developer.bosch.com › web › xdk › cloud –XDK – Cloud – Bosch Developer Portal
    https://iotool.io › news › blog › use–bosch–xdk–with–iotool–in–research–…Use Bosch XDK with IoTool in research

[g] https://en.wikipedia.org › wiki › JavaScript

[h] https://www.w3schools.com › python › python_json

[THE END]