A Simple Suggestion based on Understanding & Using a Combination of Python based Tools in the Context of Rabin Fingerprint Computing.

[ Exploring – Medical Imaging/Electron Microscopy Imaging R&D ]

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[I] Abstract:


[II] Inspiration + Introduction:

https://en.wikipedia.org/wiki/Michael_O._Rabin
https://rjlipton.wordpress.com/2009/03/01/rabin-flips-a-coin/
https://en.wikipedia.org/wiki/Fingerprint_(computing)
rabinfingerprint.org

[Algorithm I]

(output/s)

[Algorithm II]

(output/s)

[Algorithm III]

(output/s)

[Algorithm IV]

(output/s)

[Figure I – Presents Algorithms [I–IV] – Testing in Progress – Approximate Suggestions Only – Please Check & Satisfy Yourselves – Actual Implementations will certainly vary]
[IV] Related R&D Information on Mathematics+Software Used/Useful:

[b] https://realpython.com/fingerprinting-images-for-near-duplicate-detection
[c] https://github.com/bastianraschke/pyfingerprint
[d] https://pypi.org/project/fingerprint
[f] https://pypi.org/project/fingerprint-app
[g] https://subscription.packtpub.com/.../9781785280696/3/ch03lvl1sec18/os-fingerprinting
[h] https://www.quora.com/Can-Python-read-biometrics-inputs-from-users
[i] https://circuitdigest.com/microcontroller-projects/raspberry-pi-fingerprint-sensor...
[j] https://www.python.org/downloads
[l] https://github.com/cschwede/python-rabin-fingerprint
[m] www.sourcecodeonline.com/list?q=rabin_fingerprint
[n] https://brilliant.org/wiki/rabin-karp-algorithm
[o] https://github.com/aitjcize/pyrabin
[p] https://github.com/stevegt/librabinpoly
[q] https://en.m.wikipedia.org/wiki/Rabin_fingerprint
[s] https://www.researchgate.net/publication/2688260
[t] https://pypi.org/project/fingerprint
[u] https://www.ijser.org/researchpaper/High-Performance-Plagiarism...
[v] https://github.com/OlafenwaMoses/ImageAI
[x] https://pandas.pydata.org
[V] Additional Related R&D Information on Mathematics+Software Used/Useful:

[a1] https://www.raddq.com/dicom-processing-segmentation-visualization-in-python
[a2] https://school.geekwall.in/p/HyLrsP3VPE/intelligent-scanning-using-deep-learning-for-mri
[a3] https://pypi.org/project/mriqc
[a4] https://github.com/jtamir/mri-sim-py
[a6] https://nilearn.github.io
[a7] https://pypi.org/project/scipion-em-eman2
[a8] https://www.ndcn.ox.ac.uk/divisions/fmrib
[a9] https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3537914
[a10] https://www.fei.com/cryo-em
[a11] https://www2.mrc-lmb.cam.ac.uk/download/lectures/cryo-em-2017/Cryo-EM...
[a15] https://pypi.org/project/pydicom

[VI] Interesting Conclusion/s With Future Perspectives:

We have demonstrated a simple technique using an all Python based solution to perform advanced Software R&D involving MRI Scans/Medical Imaging/cryo-EM Image Processing in the Context of Imaging Mathematics/Rabin Finger Printing(RFP) Algorithms/IoT/QRNG/AI/HPC related Heterogeneous Environments.

[VII] Acknowledgment/s:

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[VIII] Important References:


[ THE END ]