Some Models in the context of cryo-EM Image Processing Applications – A Simple & Novel Suggestion Using - [BIIPS/dlib ML/quantum Device] – as Next Generation Intelligent Electron Microscopy Informatics Platform.

[Probing Electron Microscopy(EM) Image Processing Frameworks]

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[I] Inspiration & Introduction :

http://people.bordeaux.inria.fr/pierre.delmoral/simulinks.html

http://dlib.net/

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2924739/

https://www.idquantique.com/random-number-generation/products/quantis-qrng-chip/

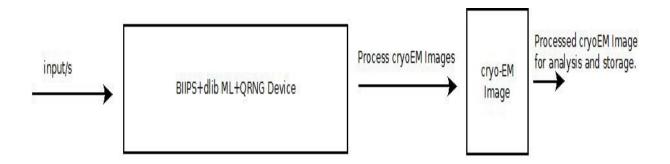http://www.openeering.com/node/147

http://www.openeering.com/sites/default/files/PDE_FeynmanKac.pdf

Useful in Understanding our approach :

[a] http://dx.doi.org/10.5958/0975-8089.2016.00001.4 – cryoEM Image Processing Software Trends.

[b] http://vixra.org/abs/1709.0412

[c] http://vixra.org/pdf/1709.0389v1.pdf

[d] http://dx.doi.org/10.5958/0975-8089.2016.00008.7 – cryoEM Image Processing Software Trend.

[e] https://hal.inria.fr/hal-01108399

Please Note : We are not endorsing any product/s here.Just to give you an idea.There could be many routes to solve demanding Image Processing problems.Written in free style.

[II] Informatics Framework :

input/s → BIIPS+dlib ML+QRNG Device → Process cryoEM Images → cryo-EM Image → Processed cryoEM Image for analysis and storage.

Approximate Suggestion Towards Designing & Developing Next Generation AI/ML Based cryo-EM Image Processing Software With Sound Mathematical Foundations.
Please Check & Satisfy Yourself before experiementing with our idea.
Non-Profit Academic R&D Only.
Think in a different way always.

Figure I – Explaining our Idea.

[III] Acknowledgment/s :

[IV] Most Important Reference :

Davis E. King. Dlib-ml: A Machine Learning Toolkit.
  Journal of Machine Learning Research, 2009

@Article{dlib09,
  author = {Davis E. King},
  title = {Dlib-ml: A Machine Learning Toolkit},
  journal = {Journal of Machine Learning Research},
  year = {2009},
  volume = {10},
  pages = {1755-1758},
}

THE END.