

Cryo-Electron Microscopy(cryo-EM) Image Processing & Informatics Framework in the Context of [Python/PixelCNN++/TensorFlow(TF)/ImageNet/Imaging Mathematics] towards Hi-End Electron Microscopy Imaging Software R&D – A Simple Introduction & Suggestion.

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[I] Inspiration & Introduction :

"PixelCNN++: A PixelCNN Implementation with Discretized Logistic Mixture Likelihood and Other Modifications"

[a] <https://arxiv.org/abs/1701.05517>

[b] <https://github.com/openai/pixel-cnn>

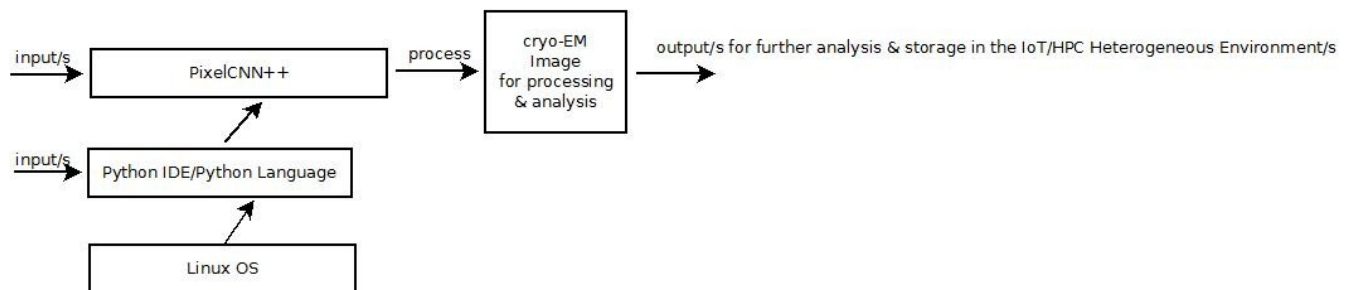
```
@inproceedings{Salimans2017PixelCNN,
  title={PixelCNN++: A PixelCNN Implementation with Discretized Logistic Mixture Likelihood and Other Modifications},
  author={Tim Salimans and Andrej Karpathy and Xi Chen and Diederik P. Kingma},
  booktitle={ICLR},
  year={2017}
}
```

<https://arxiv.org/abs/1606.05328> - [van der Oord et al.](#) in June 2016.

<http://vixra.org/abs/1803.0068>

[II] Simple Implementation of cryo-EM Image Processing R&D Informatics Framework :

SIMPLE CRYO-EM IMAGE PROCESSING INFORMATICS R&D FRAMEWORK USING PIXELCNN++/PYTHON/TENSOR FLOW



Approximate cryo-EM Image Processing Informatics Framework Using PixelCNN++/Python/TensorFlow for Hi-End Computing & Applications.
Please Check the literature & Satisfy Yourself.
Thanks - Dr.Nirmal
Testing in Progress at the time of submission.
Please Check our published articles for an in-depth understanding or to get an initial idea on cryo-EM Image Processing Frameworks.
Actual Implementation might vary to some extent.

[Figure I : Simple cryo-EM Image Processing & Informatics Framework]

**** Testing in Progress with Some Promising Results.**

[III] Useful/Related R&D Information on Mathematics & Software from Vixra.org :

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

[b] http://vixra.org/author/dnt_kumar

[c] http://vixra.org/author/n_t_kumar

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

[e] http://vixra.org/author/d_n_t_kumar

[IV] Additional Information :

[a] <https://omictools.com/cryo-em-category> – for guidance

[b] https://en.wikibooks.org/wiki/Software_Tools_For_Molecular_Microscopy

[c] <https://www.cs.toronto.edu/~kriz/cifar.html>

[d] <http://image-net.org/small/download.php>

[THE END]