Preprocessing & pipeline:

* Divide data set into train & val set
* Do cross validation

If no restriction then can do whatever preprocessing?

Even tune up things like contrast to make bg noise more obvious?

Or even make it b/w etc to see if it works (better)?

Train on different pre=processed image and combine the result? Taking avg etc

Algo & architecture:

* Output continuous scalar but not category’
  + To leverage the relatedness of close years
* Wider receptive field should be emphasized
  + Coz the question is kind of “noise pattern recognition” for determining the year
  + Local feature less useful?
* Backbone: general conv net with large (or very large) kernel size?
* Or sets of different kernel size?

Need test

Loss function:

* Simply L1-loss?
* Or L2?
* Or cross entropy better?

Hierarchical classification useful? – but mathematically the same, isn’t it?

ICA /fourier analysis before feeding to deep network