

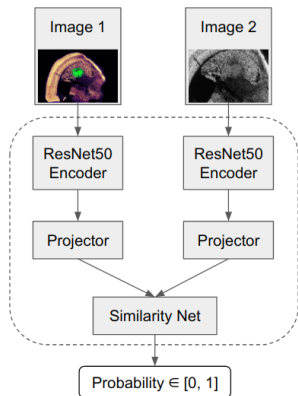
Identification of Fabricated Biological Images

The problem

Detection of similar images despite modifications.

The solution

A Barlow Twins¹-based model for pairwise image comparison.



The model processes two images and outputs a value from $[0, 1]$ – the likelihood that they are identical, up to modifications.

The method leverages a self-supervised learning approach.

¹J. Zbontar et al. Barlow Twins: Self-Supervised Learning via Redundancy Reduction // ICML, 2021.