

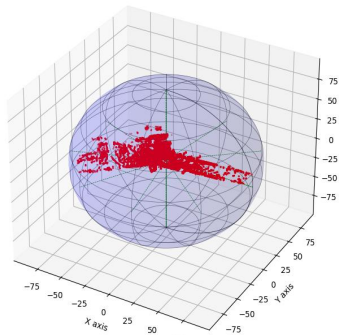
# The Mercator Descriptor: A Novel Global Descriptor for Loop Closure Detection

Input

data collection



point cloud



Loop closure detection

Store descriptors into a KD-tree.

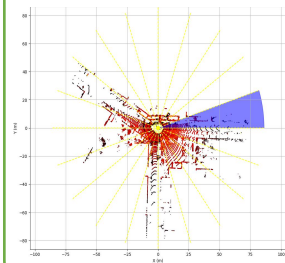
Mercator Database for Place Recognition

Retrieve Candidate Loop

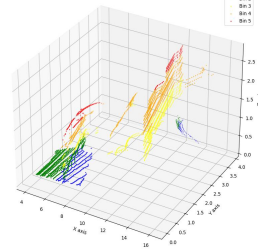
Validate Loop

Mercator descriptor generation

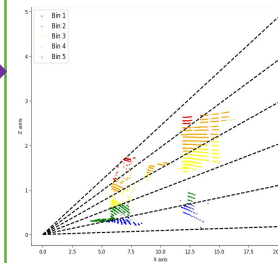
Determine the longitude zone.



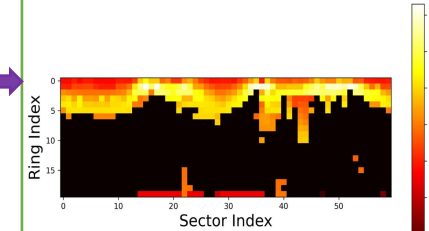
Divide areas at different latitudes



Determine the latitude zone.

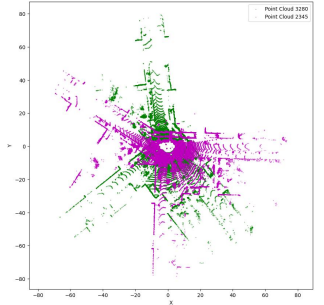


Get depth information



Output

Obtaining the current and candidate frames.



Optimize pose to obtain global map

