

Statistical Learning Theory

Homework 2

1. Derive the VC-dimension of the function class consisting of all circles in the 2D plane.
2. Derive the VC-dimension of the function classes of all triangles in the 2D plane.
3. Derive the VC-dimension of the class of Right angled Triangles in the 2D plane.
4. Derive the VC-dimension of the class of Axis Parallel Squares in the 2D plane.
5. Derive the VC-dimension of the class of Rotated Squares in the 2D plane.