Rapport CSI2520

Projet intégrateur

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UML

Plane3D

-p1: Point3D
-p2: Point3D
-p3: Point3D
-a: double
-b: double
-c: double
-d: double

-getDistance(pt: Point3D): double
-getP1(): Point3D
-getP2(): Point3D
-getP3():Point3D

Point3D

-x: double
-y: double
-z: double

-getX(): double
-getY(): double
-getZ(): double

PlaneRANSAC

-eps: double
-pc: PointCloud

+setEps(eps: double): void
+getEps(): double
+getNumberOfIterations (confidence: double, percentageOfPointsOnP lane: double): int
+run(numberOfIterations : int, filename: String): void

PointCloud

-nPoints: ArrayList<Point3D>

+getArray(): ArrayList<Point3D>
+addPoint(pt Point3D):void
+getPoint(): Point3D
+save(filename: String): void
+iterator():Iterator<Poi nt3D>
+removePoint(pt: Point3D): void
+size(): int