工具类BaseStationRange.jar

使用说明：

引入工具类BaseStationRange.jar

**import** com.bonc.common.utils.BaseStationRangeUtil;

方法中实现如下：

1、百度地图坐标点经纬度、区域半径(米)、区域起始角度、区域结束角度求取该坐标点扇形区域范围坐标集合

BaseStationRangeUtil gu = **new** BaseStationRangeUtil();

String range=gu.getBaseStationRange(112.589653, 37.748447, 500, -60, 60, "autoams", "autoams123", "jdbc:oracle:thin:@192.168.100.123:1521:sxmbi");

输出结果：

112.589653,37.748447,112.58916167504368,37.74867224010761,112.58923138927436,37.74874843009957,112.58931952991685,37.748811446149745,112.58942224480215,37.74885853415437,112.58953504479688,37.748887636141696,112.589653,37.74889748021523,112.58977095520312,37.748887636141696,112.58988375519785,37.74885853415437,112.58998647008315,37.748811446149745,112.59007461072564,37.74874843009957,112.59014432495631,37.74867224010761,112.589653,37.748447

参数说明：

[String](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil~getBaseStationRange~D~D~D~D~D~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;%E2%98%82java.lang.String" \o "in java.lang) [com](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com).[bonc](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc).[common](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common).[utils](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils).[BaseStationRangeUtil](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil).getBaseStationRange(double lng, double lat, double radius, double sDegree, double eDegree, [String](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil~getBaseStationRange~D~D~D~D~D~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;%E2%98%82java.lang.String" \o "in java.lang) dsUname, [String](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil~getBaseStationRange~D~D~D~D~D~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;%E2%98%82java.lang.String" \o "in java.lang) dsPassword, [String](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil~getBaseStationRange~D~D~D~D~D~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;%E2%98%82java.lang.String" \o "in java.lang) dsUrl)

double lng 百度坐标经度，必须传入不为空

double lat 百度坐标纬度，必须传入不为空

double radius 区域半径(米)，必须传入不为空

double sDegree 区域起始角度，必须传入不为空

double eDegree 区域结束角度，必须传入不为空

[String](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil~getBaseStationRange~D~D~D~D~D~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;%E2%98%82java.lang.String" \o "in java.lang) dsUname Oracle数据源帐号，必须传入不为空

[String](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil~getBaseStationRange~D~D~D~D~D~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;%E2%98%82java.lang.String" \o "in java.lang) dsPassword Oracle数据源密码，必须传入不为空

[String](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil~getBaseStationRange~D~D~D~D~D~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;%E2%98%82java.lang.String" \o "in java.lang) dsUrl Oracle数据源连接串，必须传入不为空

2、根据坐标集合获取区域面积

BaseStationRangeUtil gu = **new** BaseStationRangeUtil();

String areaA = gu.getArea("112.589653,37.748447,112.5917610536282,37.74995415049783,112.59210962478157,37.74957320053806,112.589653,37.748447", "autoams", "autoams123", "jdbc:oracle:thin:@192.168.100.123:1521:sxmbi");

输出结果：64970.4592368647

参数说明：

[String](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil~getArea~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;%E2%98%82java.lang.String" \o "in java.lang) [com](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com).[bonc](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc).[common](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common).[utils](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils).[BaseStationRangeUtil](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil).getArea([String](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil~getArea~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;%E2%98%82java.lang.String" \o "in java.lang) range, [String](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil~getArea~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;%E2%98%82java.lang.String" \o "in java.lang) dsUname, [String](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil~getArea~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;%E2%98%82java.lang.String" \o "in java.lang) dsPassword, [String](eclipse-javadoc:%E2%98%82=testMap/lib\\/BaseStationRange.jar<com.bonc.common.utils(BaseStationRangeUtil.class%E2%98%83BaseStationRangeUtil~getArea~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;~Ljava.lang.String;%E2%98%82java.lang.String" \o "in java.lang) dsUrl)

**String** range 区域坐标范围，必须传入不为空

**String** dsUname 数据源帐号，必须传入不为空

**String** dsPassword 数据源密码，必须传入不为空

**String** dsUrl 数据源连接串，必须传入不为空

1. 根据两个不同的区域坐标集合获取公共区域分别占两个不同区域的覆盖率

BaseStationRangeUtil gu = **new** BaseStationRangeUtil();

Map<String,Object> precent =

gu.getIntersectionAreaPrecent("112.589653,37.748447,112.58817902513105,37.74912272032284,112.58838816782308,37.7493512902987,112.58865258975057,37.749540338449236,112.58896073440646,37.74968160246313,112.58929913439064,37.7497689084251,112.589653,37.74979844064568,112.59000686560935,37.7497689084251,112.59034526559354,37.74968160246313,112.59065341024943,37.749540338449236,112.59091783217691,37.7493512902987,112.59112697486894,37.74912272032284,112.589653,37.748447",

"112.589653,37.748447,112.58719637521843,37.74957320053806,112.58754494637179,37.74995415049783,112.58798564958428,37.750269230748735,112.58849922401076,37.75050467077188,112.58906322398441,37.7506501807085,112.589653,37.750699401076126,112.59024277601559,37.7506501807085,112.59080677598924,37.75050467077188,112.59132035041571,37.750269230748735,112.5917610536282,37.74995415049783,112.59210962478157,37.74957320053806,112.589653,37.748447", "autoams", "autoams123", "jdbc:oracle:thin:@192.168.100.123:1521:sxmbi");

System.***out***.println("区域A和区域B的公共区域占区域A百分比是："+precent.get("precentA"));

System.***out***.println("区域A和区域B的公共区域占区域B百分比是："+precent.get("precentB"));

输出结果：Map对象

key:precentA表示区域A和区域B的公共区域占区域A百分比

key:precentB表示区域A和区域B的公共区域占区域B百分比

参数说明：

String rangeA 区域A坐标集合，必须传入不为空

String rangeB 区域B坐标集合，必须传入不为空

String dsUname 数据源帐号，必须传入不为空

String dsPassword 数据源密码，必须传入不为空

String dsUrl 数据源连接串，必须传入不为空

注意：数据源Oracle必须支持Oracle Spatial的空间数据计算、查询函数

源码地址：

<http://192.168.100.202:8080/bonc/source/实时决策引擎/新实时决策引擎/code/前台程序/BaseStationRange>