TerpRescue

- rawMap: nav msgs::OccupancyGrid
- synthesizedMap: nav msgs::OccupancyGrid
- currentLocation: geometry msgs::Pose
- tags: vector<struct>
- lidar: vector<float>
- camera: sensor_msgs::Image
- recognition: Localizer
- lidarSubscriber: ros::Subscriber
- cameraSubscriber: ros::Subscriber
- odomSubscriber: ros::Subscriber
- mapPublisher: ros::Publisher
- + TerpRescue()
- + visualization(): void
- + detectTags(): void
- + getLidar(): vector<float>
- + getCamera(): sensor_msgs::Image
- + getRawMap(): nav_msgs::OccupancyGrid
- + getSynthesizedMap(): nav_msgs::OccupancyGrid
- + getCurrentLocation(): geometry_msgs::Pose
- + getTagInformation(): vector<struct>
- lidarCallback(sensor_msgs::LaserScan, this): void
- cameraCallback(sensor msgs::Image, this): void
- odomCallback(nav msgs::Odometry, this): void
- mapCallback(nav msgs::OccupancyGrid,this): void

Localizer

- tags: vector<struct>
- lidar: vector<float> - camera: sensor msgs::Image
- currentLocation: geometry msgs::Pose
- + tagDetection(sensor_msgs::Image image, vector<float> lidar, geometry_msgs::Pose currentLocation): void
- + getTagInfo(): vector<struct>
- tagRecognition(): void
- locateTag(): void
- transformationTagPosition(): void