Obstacle Identification State Machine

3b
not FeatureInRange

RecordRightEdge
Output Obstacle
FeatureCount = 1
Set isAnObstacle False

<< begin >>

0
FeatureCount = 1
Set isAnObstacle False

2a
nextFeatureInRange and
FeatureCountSufficient

InstantiateObstacle
Set isAnObstacle True
FeatureCount++

3t
lastFeature

RecordRightEdge
Output Obstacle

1a
nextFeatureInRange

FeatureCount++
RecordLeftEdge

Free
Feature

Obstacle
Candidate

Obstacle
Open

<< terminate >>

1b
not nextFeatureInRange

FeatureCount = 1

2c
nextFeatureInRange
and not
FeatureCountSufficient

FeatureCount++

3c
nextFeatureInRange

FeatureCount++

1t
lastFeature

2b
not nextFeatureInRange

FeatureCount = 1

2t
lastFeature and
FeatureCountSufficient

RecordRightEdge
Output Obstacle

<< terminate >>

<< terminate >>

<< 2t is executed first of all flows for ObstacleCandidate.

Similarly, 1t and 3t are executed first for freeFeature and
ObstacleOpen states respectively. >>

S. Vigil 3/30/2020