

Documentation of ROS2 package: obstacle_avoidance

Description:

This is a package that implements an obstacle avoidance algorithm for a robot of one CPU and two SONARS.

Package Metadata

Maintaner:

bronzeRaf

Email:

rnm1816@gmail.com

License:

Apache License 2.0

Node: sonar1
Namespace:

Publishers

Name	Type	Package	Path	Rate	QoS Profile
toCpu1	Distance	interfaces	topic/path/s1	0.5	Custom

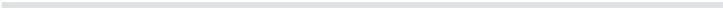
Custom QoS Profile of Publisher **toCpu1**

Parameter	Value
History	KEEP_LAST
Reliability	SYSTEM_DEFAULT
Durability	SYSTEM_DEFAULT
Depth	15
Liveliness	SYSTEM_DEFAULT
Deadline Sec	0
Deadline Nano Sec	0
Lifespan Sec	0
Lifespan Nano Sec	0
Liveliness Lease Duration Sec	0

Parameter	Value
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Liveliness Lease Duration Nano Sec 0

Avoid ROS Namespace Conventions False



Node: sonar2
Namespace:

Publishers

Name	Type	Package	Path	Rate	QoS Profile
toCpu2	Distance	interfaces	topic/path/s2	0.5	Custom

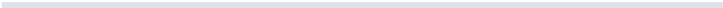
Custom QoS Profile of Publisher **toCpu2**

Parameter	Value
History	KEEP_LAST
Reliability	SYSTEM_DEFAULT
Durability	SYSTEM_DEFAULT
Depth	15
Liveliness	SYSTEM_DEFAULT
Deadline Sec	0
Deadline Nano Sec	0
Lifespan Sec	0
Lifespan Nano Sec	0
Liveliness Lease Duration Sec	0

Parameter	Value
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Liveliness Lease Duration Nano Sec 0

Avoid ROS Namespace Conventions False



Node: cpu
Namespace:

Publishers

Name	Type	Package	Path	Rate	QoS Profile
toActuators	Twist	geometry_msgs	topic/ path/ act	0.5	SYSTEM_DEFAULT

Subscribers

Name	Type	Package	Path	QoS Profile
fromSonar1	Distance	interfaces	topic/path/s1	Custom
fromSonar2	Distance	interfaces	topic/path/s2	Custom

Custom QoS Profile of Subscriber **fromSonar1**

Parameter	Value
History	KEEP_LAST
Reliability	SYSTEM_DEFAULT
Durability	SYSTEM_DEFAULT
Depth	15
Liveliness	SYSTEM_DEFAULT
Deadline Sec	0

Parameter	Value
Deadline Nano Sec	0
Lifespan Sec	0
Lifespan Nano Sec	0
Liveliness Lease Duration Sec	0
Liveliness Lease Duration Nano Sec	0
Avoid ROS Namespace Conventions	False

Custom QoS Profile of Subscriber **fromSonar2**

Parameter	Value
History	KEEP_LAST
Reliability	SYSTEM_DEFAULT
Durability	SYSTEM_DEFAULT
Depth	15
Liveliness	SYSTEM_DEFAULT
Deadline Sec	0
Deadline Nano Sec	0
Lifespan Sec	0
Lifespan Nano Sec	0

Parameter	Value
Liveliness Lease Duration Sec	0
Liveliness Lease Duration Nano Sec	0
Avoid ROS Namespace Conventions	False
