Parameters used in simulation tests for "Mobile robot 6D localization using 3D Gaussian mixture maps in GPS-denied scenarios":

Parameter	Value
Scanner parameters	
Туре	Velodyne VLP-16
Sampling frequency	100 000 points per second
Rotational speed	10 rpm
Robot parameters	
Applied linear velocity	0.1 m/s in most tests,
	0.2 from 0.05 to 4 m/s in velocity comparison tets
Disturbance	
Std. deviation for linear velocity	0.01 m/s
Std. deviation for angular velocity	0.01 rad/s
Std. deviation for distance	0.015 m
measurement	
Std. deviation for azimuth angle	0.001 rad
measurement (in laser scanner)	
Std. deviation for azimuth angle	0.0001 rad
measurement (in laser scanner)	
EKF parameters	
Limit for innovation acceptance	0.7 m
Limit for translational correction	0.005 m
acceptance	