

#### **Scene 4 : KNN- 5**

-  
relative\_config: [0.548744,0.317784,0.826851,0.269813,0.716956,-0.315323,0.560131 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.761962,0.194683,1.018362,0.614546,0.870420,-0.187224,-0.015645 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.761962,0.194683,1.018362,0.614546,0.870420,-0.187224,-0.015645 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.622794,-0.102172,0.826851,-0.342935,0.684996,0.441698,0.466989 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.621495,-0.105741,0.783439,0.579228,0.405580,0.579228,-0.405580 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.707000,0.289879,0.974950,0.729221,-0.729221,0.265415,0.265415 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.707000,0.289879,0.974950,-0.729221,0.729221,-0.265415,-0.265415 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.632950,-0.074267,0.908439,-0.302191,0.811591,0.380642,0.324209 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.621495,-0.105741,0.783439,0.607233,0.362310,0.548146,-0.446695 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.830101,0.342399,0.826851,0.746701,0.193592,-0.453958,0.461392 ]  
grasp\_mode: 2  
release\_mode: 3

## **Scene 5 : KNN - 5**

-  
relative\_config: [0.626652,0.099938,1.018362,0.469744,0.865556,0.130033,0.115088 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.626652,0.158427,1.018362,0.442458,0.879817,0.020253,0.172463 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.626652,0.033427,0.999945,0.482038,0.837050,0.254837,0.045225 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.626652,-0.091573,0.868944,-0.287943,0.766876,0.435631,0.373116 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.626652,-0.091573,0.868944,-0.314200,0.756497,0.422514,0.387907 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.652038,0.063681,1.018362,0.477567,0.861264,0.170462,0.033109 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.663588,0.129182,1.029640,-0.573513,0.814547,-0.050176,0.071264 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.664247,0.136721,1.029640,-0.641779,0.766926,-0.066947,0.056328 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.664247,0.136721,1.029640,-0.641779,0.766926,-0.066947,0.056328 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [0.666206,0.144030,1.029640,-0.647053,0.773166,-0.076331,0.044202 ]  
grasp\_mode: 2  
release\_mode: 3

#### **Scene\_4 - KNN - 25**

-  
relative\_config: [ 0.622794,-0.102172,0.826851,0.684996,0.342935,0.466989,-0.441698 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.548744,0.317784,0.826851,0.269813,0.716956,-0.315323,0.560131 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.626652,-0.091573,0.868944,0.756497,0.314200,0.387907,-0.422514 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.548744,0.317784,0.826851,0.733758,-0.220054,0.537210,0.352961 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.548744,0.317784,0.826851,0.672953,-0.366004,0.598228,0.235157 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.548744,0.317784,0.826851,0.220054,0.733758,-0.352961,0.537210 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.621495,-0.105741,0.783439,0.607233,0.362310,0.548146,-0.446695 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.548744,0.317784,0.826851,0.716956,-0.269813,0.560131,0.315323 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.632950,-0.074267,0.908439,0.811591,0.302191,0.324209,-0.380642 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.548744,0.317784,0.826851,0.607663,-0.466443,0.627575,0.139016 ]  
grasp\_mode: 2  
release\_mode: 3

## **Scene\_5 - KNN - 25**

-  
relative\_config: [ 0.530499,0.362172,1.043448,0.486871,0.856039,-0.031260,0.170811 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.510495,0.072287,0.808525,0.416807,0.571202,0.679311,-0.196308 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.515652,0.086455,0.894030,-0.314200,0.756497,0.422514,0.387907 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.521950,0.349963,1.043448,0.465637,0.867772,-0.005401,0.173564 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.515652,0.277966,1.043448,0.469744,0.865556,0.130033,0.115088 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.511794,0.075856,0.851937,-0.238921,0.727833,0.505326,0.397268 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.521950,0.349963,1.043448,0.867772,-0.465637,0.173564,0.005401 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.515652,0.336455,1.043448,0.442458,0.879817,0.020253,0.172463 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.515652,0.211455,1.025032,0.482038,0.837050,0.254837,0.045225 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.530499,0.252248,1.043448,0.503753,0.846215,0.163955,0.057206 ]  
grasp\_mode: 2  
release\_mode: 3

#### **Scene\_4 - SVR - Gaussian**

-  
relative\_config: [ 0.761962,0.280188,0.974950,0.367094,1.251430,-0.473712,-0.030231 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.761962,0.280188,0.974950,0.367094,1.251430,-0.473712,-0.030231 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.707000,0.129182,1.033439,0.707107,-0.707107,0.000000,0.000000 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,0.918190,-0.478717,0.364242,0.474070 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,0.807885,-0.421207,0.320485,0.417118 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,0.862730,0.075479,0.043578,0.498097 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,-0.432065,0.750547,-0.470062,-0.170416 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,0.750547,0.432065,-0.170416,0.470062 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,-0.075479,0.862730,-0.498097,0.043578 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,0.421207,0.807885,-0.417118,0.320485 ]  
grasp\_mode: 2  
release\_mode: 3

## **Scene\_5 - SVR - Gaussian**

-  
relative\_config: [ 0.596000,0.307210,1.058525,0.707107,-0.707107,0.000000,0.000000 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.521950,0.510659,0.933525,0.810045,0.306311,-0.006228,0.499961 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.983537,-0.512787,0.390165,0.507809 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.983537,-0.512787,0.390165,0.507809 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.918190,-0.478717,0.364242,0.474070 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.918190,-0.478717,0.364242,0.474070 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.807885,-0.421207,0.320485,0.417118 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.807885,-0.421207,0.320485,0.417118 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.862730,0.075479,0.043578,0.498097 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,-0.432065,0.750547,-0.470062,-0.170416 ]  
grasp\_mode: 2  
release\_mode: 3

#### Scene\_4 - NuSVR - Gaussian

-  
relative\_config: [ 0.707000,0.129182,1.033439,0.707107,-0.707107,0.000000,0.000000 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.632950,0.332632,0.908439,0.662536,0.557715,-0.171750,0.469576 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,0.918190,-0.478717,0.364242,0.474070 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,0.918190,-0.478717,0.364242,0.474070 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,0.807885,-0.421207,0.320485,0.417118 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,0.807885,-0.421207,0.320485,0.417118 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,0.862730,0.075479,0.043578,0.498097 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,-0.432065,0.750547,-0.470062,-0.170416 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,0.750547,0.432065,-0.170416,0.470062 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.342399,0.908439,-0.075479,0.862730,-0.498097,0.043578 ]  
grasp\_mode: 2  
release\_mode: 3

## Scene\_5 - NuSVR - Gaussian

-  
relative\_config: [ 0.596000,0.307210,1.058525,0.707107,-0.707107,0.000000,0.000000 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.521950,0.510659,0.933525,0.810045,0.306311,-0.006228,0.499961 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.983537,-0.512787,0.390165,0.507809 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.983537,-0.512787,0.390165,0.507809 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.918190,-0.478717,0.364242,0.474070 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.918190,-0.478717,0.364242,0.474070 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.807885,-0.421207,0.320485,0.417118 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.807885,-0.421207,0.320485,0.417118 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,0.862730,0.075479,0.043578,0.498097 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.558404,0.520427,0.933525,-0.432065,0.750547,-0.470062,-0.170416 ]  
grasp\_mode: 2  
release\_mode: 3



#### **Scene\_4 - Bayesian Ridge**

-  
relative\_config: [ 0.626652,0.099938,1.018362,0.778122,-0.603633,0.092526,-0.146944 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.621495,0.129182,1.018362,0.745240,-0.643789,0.131406,-0.113517 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.632950,0.086430,1.018362,0.804002,-0.568707,0.072635,-0.157727 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.652038,0.280188,0.974950,0.681672,-0.646796,0.306075,0.152629 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.622794,0.114334,1.018362,0.779939,-0.601284,0.117024,-0.128293 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.621495,0.129182,1.018362,0.829024,-0.531569,0.146179,-0.093730 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.641499,0.309144,0.944135,0.751204,-0.507037,0.341983,0.248301 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.622794,0.114334,1.018362,0.644644,0.744500,0.134737,0.109543 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.750412,0.375384,0.783439,0.454519,-0.541675,0.454519,0.541675 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.622794,0.144030,1.018362,0.805569,-0.566484,0.157231,-0.073703 ]  
grasp\_mode: 2  
release\_mode: 3

## **Scene\_5 - Bayesian Ridge**

-  
relative\_config: [ 0.552588,0.553412,0.808525,0.541675,-0.454519,0.541675,0.454519 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.552588,0.061008,0.808525,-0.454519,0.541675,0.454519,0.541675 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.553247,0.549672,0.851937,-0.537206,0.546107,-0.529552,-0.364349 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.596000,0.057210,0.808525,-0.579228,0.405580,0.405580,0.579228 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.552588,0.553412,0.808525,0.454519,0.541675,-0.454519,0.541675 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.639412,0.061008,0.808525,0.541675,-0.454519,-0.541675,-0.454519 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.530499,0.362172,1.043448,0.709822,0.682641,0.018508,0.172659 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.552588,0.061008,0.808525,-0.393597,0.587437,0.510165,0.489624 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.553247,0.299672,1.054727,0.658206,0.747776,0.068071,0.054428 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.552588,0.553412,0.808525,0.489624,-0.510165,0.587437,0.393597 ]  
grasp\_mode: 2  
release\_mode: 3

#### **Scene\_4 : Linear SVR**

-  
relative\_config: [ 0.626652,0.099938,1.018362,0.778122,-0.603633,0.092526,-0.146944 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.632950,0.086430,1.018362,0.804002,-0.568707,0.072635,-0.157727 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.622794,0.114334,1.018362,0.601284,0.779939,0.128293,0.117024 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.626652,0.099938,1.018362,0.806707,-0.564863,0.099601,-0.142244 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.622794,0.114334,1.018362,0.644644,0.744500,0.134737,0.109543 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.622794,0.114334,1.018362,0.779939,-0.601284,0.117024,-0.128293 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.621495,0.129182,1.018362,0.745240,-0.643789,0.131406,-0.113517 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.621495,0.129182,1.018362,0.643789,0.745240,0.113517,0.131406 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.791206,0.144030,1.018362,0.795929,-0.579951,-0.120454,0.125078 ]  
grasp\_mode: 2  
release\_mode: 3

-  
relative\_config: [ 0.669404,0.107476,1.029640,0.796575,-0.598224,0.034186,-0.080172 ]  
grasp\_mode: 2  
release\_mode: 3

## **Scene\_5 : Linear SVR**

-  
relative\_config: [ 0.596000,0.057210,0.808525,-0.579228,0.405580,0.405580,0.579228 ]  
grasp\_mode: 2  
release\_mode: 3  
-  
relative\_config: [ 0.596000,0.057210,0.808525,-0.579228,-0.405580,-0.405580,0.579228 ]  
grasp\_mode: 2  
release\_mode: 3  
-  
relative\_config: [ 0.552588,0.061008,0.808525,0.541675,0.454519,0.541675,-0.454519 ]  
grasp\_mode: 2  
release\_mode: 3  
-  
relative\_config: [ 0.552588,0.061008,0.808525,-0.454519,0.541675,0.454519,0.541675 ]  
grasp\_mode: 2  
release\_mode: 3  
-  
relative\_config: [ 0.596000,0.057210,0.808525,-0.500000,-0.500000,-0.500000,0.500000 ]  
grasp\_mode: 2  
release\_mode: 3  
-  
relative\_config: [ 0.552588,0.553412,0.808525,0.541675,-0.454519,0.541675,0.454519 ]  
grasp\_mode: 2  
release\_mode: 3  
-  
relative\_config: [ 0.596000,0.057210,0.808525,-0.500000,0.500000,0.500000,0.500000 ]  
grasp\_mode: 2  
release\_mode: 3  
-  
relative\_config: [ 0.552588,0.553412,0.808525,0.454519,0.541675,-0.454519,0.541675 ]  
grasp\_mode: 2  
release\_mode: 3  
-  
relative\_config: [ 0.552588,0.061008,0.808525,-0.393597,0.587437,0.510165,0.489624 ]  
grasp\_mode: 2  
release\_mode: 3  
-  
relative\_config: [ 0.552588,0.061008,0.808525,0.587437,0.393597,0.489624,-0.510165 ]  
grasp\_mode: 2  
release\_mode: 3