|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Social Force Parameters** | **Pedestrian type’s parameters** | | | | | | **Sharing parameters** |
| **Children** | | **Adults** | | **Elders** | |
| **Avg.** | **Std.** | **Avg.** | **Std.** | **Avg.** | **Std.** |
| (m/s) | 1.38 | 0.1 | **1.3** | 0.1 | 0.61 | 0.1 | =1.3  = 0.75  U=10.0  meanradii=0.3  sdradii=0.05 |
| (s) | 1.25 | 0.1 | **1.0** | 0.1 | 0.5 | 0.1 |
| ***A***(m/s2) | 1.3 | 0.1 | **3.0** | 0.1 | 0.67 | 0.1 |
| ***B***(m) | 0.33 | 0.1 | **0.3** | 0.1 | 0.67 | 0.1 |

'young\_num' : 24,

'adult\_num' : 23,

'elderly\_num' : 23,

############## for young pedestrian ####################

'young\_velocity\_mean' : 1.8,

'young\_velocity\_deviation' : 0.18,

'young\_relaxation\_mean' : 1.25,

'young\_relaxation\_deviation' : 0.125,

'young\_force\_unit' : 4.0,

'young\_force\_deviation' : 0.40,

'young\_force\_range' : 0.1,

'young\_range\_deviation' : 0.01,

############## for adult pedestrian ###################

'adult\_velocity\_mean' : 1.3,

'adult\_velocity\_deviation' : 0.13,

'adult\_relaxation\_mean' : 1.0, #commonly used (Helbing, 2005)

'adult\_relaxation\_deviation' : 0.1,

'adult\_force\_unit' : 3.0,

'adult\_force\_deviation' : 0.3,

'adult\_force\_range' : 0.3,

'adult\_range\_deviation' : 0.03,

############## for elderly pedestrian ###################

'elderly\_velocity\_mean' : 0.8,

'elderly\_velocity\_deviation' : 0.08,

'elderly\_relaxation\_mean' : 0.5,

'elderly\_relaxation\_deviation' : 0.05,

'elderly\_force\_unit' : 2.0,

'elderly\_force\_deviation' : 0.2,

'elderly\_force\_range' : 0.2,

'elderly\_range\_deviation' : 0.02,