

Supplementary Materials (III)

Table 2: For *EgoTerrainNet*-Outdoor, MobileNetV2 was fine-tuned on images only from GTOS(-mobile) relevant classes with a relatively balanced distribution (asphalt/cement/stone-asphalt: 1309, leaf/grass/dry leaf/turf: 1226, Soil: 1230, pebble/Shale: 1266). For *EgoTerrainNet*-Indoor, all 2,500 images in 'Wood', 'Carpet' and 'Tiles' from MINC dataset were used to fine-tune the MobileNetV2. The validation accuracies of 99.20 and 87.56 for the outdoor and indoor versions were obtained, respectively. For the indoor version. Confusion Matrices representing test results on MAGFRA-W datasets.

	Outdoor							Indoor						
	Pavement	Foliage	Gravel	Soil	Snow	Num	Acc	HF	Tile	Wood	Num	Accuracy		
OA_1	Pavement Foliage Gravel Soil	4161 89 0 20	1 11 0 4	19 0 0 0	920 53 0 15	0 0 0 0	5101 153 0 39	81.57 7.18 0 38.46	HF Tile Wood	161 402 0 0	2078 444 0 0	27.33 90.54 - -		
OA_2	Pavement Foliage Gravel Soil	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	HF Tiles Wood	98 0 0 0	106 0 0 0	92.45 - - -		
OA_3	Pavement Foliage Gravel Soil	47 1 0 3	3 7 0 0	1 0 0 0	0 0 0 0	0 0 0 0	51 8 0 3	92.16 87.50 0 0	HF Tiles Wood	2 1 0 0	60 16 0 0	80 6.25 - -		
OA_4	Pavement Foliage Gravel Soil	1671 14 0 0	2 23 0 0	6 0 0 0	1672 8 0 0	0 0 0 0	3351 45 0 0	49.86 51.11 0 0	HF Tiles Wood	223 584 0 0	1674 611 0 0	47.07 95.58 - -		
OA_5	Pavement Foliage Gravel Soil	1592 28 12 0	9 51 6 0	14 0 240 0	330 28 0 0	0 0 0 0	1945 107 258 0	81.85 47.66 93.02 0	HF Tiles Wood	1037 28 0 0	1523 343 0 0	68.08 86.00 - -		
OA_6	Pavement Foliage Gravel Soil	74 21 0 0	2 8 0 0	2 0 0 0	0 0 0 0	0 0 0 0	78 29 0 0	94.87 27.58 0 0	HF Tiles Wood	234 76 0 0	261 241 0 0	89.65 54.77 - -		
OA_7	Pavement Foliage Gravel Soil	1804 74 33 0	54 61 9 0	36 0 309 0	159 24 0 0	0 0 0 0	2053 159 351 0	87.87 38.36 88.03 0	HF Tiles Wood	455 6 0 0	1079 226 47 0	42.16 93.80 95.74 -		

P_8	Pavement	4956	200	0	1083	0	6239	79.43	HFM	243	93	91	427	56.90
	Foliage	12	139	0	0	0	151	92.05	Tiles	0	0	0	0	0
	Gravel	0	0	0	0	0	0	0	Wood	83	51	178	312	57.05
	Soil	0	0	0	0	0	0	0						
OA_9	Pavement	-	-	-	-	-	-	-	HFM	604	130	253	987	61.19
	Foliage	-	-	-	-	-	-	-	Tiles	2	342	7	351	97.43
	Gravel	-	-	-	-	-	-	-	Wood	0	0	0	0	-
	Soil	-	-	-	-	-	-	-						