



Supplementary materials for

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Table S1 Trained parameters of the suburban scenario

Input layer			Hidden layers								
Weight	$w_{11}^{(1)}$	-14.6929	$w_{11}^{(2)}$	-7.5681	$w_{21}^{(2)}$	-4.4330	$w_{31}^{(2)}$	3.6032	$w_{41}^{(2)}$	1.5791	
	$w_{12}^{(1)}$	-11.3032	$w_{12}^{(2)}$	-1.4815	$w_{22}^{(2)}$	-1.2132	$w_{32}^{(2)}$	-1.8408	$w_{42}^{(2)}$	-3.6223	
	$w_{13}^{(1)}$	-8.9385	$w_{13}^{(2)}$	-0.5863	$w_{23}^{(2)}$	-0.5538	$w_{33}^{(2)}$	-4.0662	$w_{43}^{(2)}$	-3.2023	
	$w_{14}^{(1)}$	-3.2954	$w_{14}^{(2)}$	-5.7754	$w_{24}^{(2)}$	-6.0182	$w_{34}^{(2)}$	2.1633	$w_{44}^{(2)}$	2.1746	
Bias			$b_1^{(1)}$	1.7030	$b_2^{(1)}$	0.6713	$b_3^{(1)}$	2.1868	$b_4^{(1)}$	2.4366	
			$b_1^{(2)}$	-3.4136	$b_2^{(2)}$	0.5161	$b_3^{(2)}$	1.0150	$b_4^{(2)}$	5.8954	
Output layer											
Weight	$w_{11}^{(3)}$	4.9645	$w_{12}^{(3)}$	0.6403	$w_{13}^{(3)}$	0.9086	Bias			$b_1^{(3)}$	-0.7994
	$w_{21}^{(3)}$	-2.3239	$w_{22}^{(3)}$	0.3147	$w_{23}^{(3)}$	-1.4221				$b_2^{(3)}$	-0.4241
	$w_{31}^{(3)}$	2.7799	$w_{32}^{(3)}$	1.3166	$w_{33}^{(3)}$	0.6724				$b_3^{(3)}$	3.6179
	$w_{41}^{(3)}$	1.3120	$w_{42}^{(3)}$	0.5578	$w_{43}^{(3)}$	-3.2829					-

Table S2 Trained parameters of the urban scenario

Input layer			Hidden layers								
Weight	$w_{11}^{(1)}$	-1.7624	$w_{11}^{(2)}$	1.8684	$w_{21}^{(2)}$	2.3069	$w_{31}^{(2)}$	-9.5128	$w_{41}^{(2)}$	-5.7261	
	$w_{12}^{(1)}$	-2.4388	$w_{12}^{(2)}$	-0.8517	$w_{22}^{(2)}$	-0.9264	$w_{32}^{(2)}$	-1.8408	$w_{42}^{(2)}$	-3.6223	
	$w_{13}^{(1)}$	-12.2205	$w_{13}^{(2)}$	0.7569	$w_{23}^{(2)}$	1.0247	$w_{33}^{(2)}$	-2.0700	$w_{43}^{(2)}$	-1.3686	
	$w_{14}^{(1)}$	-9.0397	$w_{14}^{(2)}$	-2.5910	$w_{24}^{(2)}$	-2.7758	$w_{34}^{(2)}$	-1.3686	$w_{44}^{(2)}$	-2.5035	
Bias			$b_1^{(1)}$	1.8518	$b_2^{(1)}$	2.0221	$b_3^{(1)}$	-0.0328	$b_4^{(1)}$	0.8076	
			$b_1^{(2)}$	6.0903	$b_2^{(2)}$	-0.0199	$b_3^{(2)}$	3.1708	$b_4^{(2)}$	0.4505	
Output layer											
Weight	$w_{11}^{(3)}$	0.2560	$w_{12}^{(3)}$	-0.2334	$w_{13}^{(3)}$	-4.0493	Bias			$b_1^{(3)}$	-0.3123
	$w_{21}^{(3)}$	1.8396	$w_{22}^{(3)}$	0.8858	$w_{23}^{(3)}$	-1.3357				$b_2^{(3)}$	0.3870
	$w_{31}^{(3)}$	0.1884	$w_{32}^{(3)}$	-0.1815	$w_{33}^{(3)}$	-0.1884				$b_3^{(3)}$	4.5520
	$w_{41}^{(3)}$	2.8180	$w_{42}^{(3)}$	0.7819	$w_{43}^{(3)}$	0.7909					-

Table S3 Trained parameters of the dense urban scenario

Input layer			Hidden layers								
Weight	$w_{11}^{(1)}$	-6.0370	$w_{11}^{(2)}$	-1.9770	$w_{21}^{(2)}$	-5.6344	$w_{31}^{(2)}$	-1.8524	$w_{41}^{(2)}$	-8.3205	
	$w_{12}^{(1)}$	-15.3636	$w_{12}^{(2)}$	-4.3000	$w_{22}^{(2)}$	-3.6456	$w_{32}^{(2)}$	-2.5321	$w_{42}^{(2)}$	4.2332	
	$w_{13}^{(1)}$	-8.7893	$w_{13}^{(2)}$	-5.9993	$w_{23}^{(2)}$	-2.3192	$w_{33}^{(2)}$	-7.8228	$w_{43}^{(2)}$	-5.0701	
	$w_{14}^{(1)}$	-16.6435	$w_{14}^{(2)}$	-1.6666	$w_{24}^{(2)}$	-15.488	$w_{34}^{(2)}$	-0.3524	$w_{44}^{(2)}$	-5.2581	
Bias			$b_1^{(1)}$	1.4687	$b_2^{(1)}$	2.2733	$b_3^{(1)}$	4.0833	$b_4^{(1)}$	3.6263	
			$b_1^{(2)}$	7.3030	$b_2^{(2)}$	6.2743	$b_3^{(2)}$	-0.2128	$b_4^{(2)}$	7.0294	
Output layer											
Weight	$w_{11}^{(3)}$	1.0189	$w_{12}^{(3)}$	-5.5737	$w_{13}^{(3)}$	-0.0471	Bias			$b_1^{(3)}$	-0.5874
	$w_{21}^{(3)}$	0.7096	$w_{22}^{(3)}$	-0.7814	$w_{23}^{(3)}$	-4.3213				$b_2^{(3)}$	0.7535
	$w_{31}^{(3)}$	1.3748	$w_{32}^{(3)}$	1.0159	$w_{33}^{(3)}$	0.0075				$b_3^{(3)}$	4.2427
	$w_{41}^{(3)}$	-0.7545	$w_{42}^{(3)}$	5.6904	$w_{43}^{(3)}$	0.1553				-	

Table S4 Trained parameters of the high-rise urban scenario

Input layer			Hidden layers								
Weight	$w_{11}^{(1)}$	-4.0460	$w_{11}^{(2)}$	-0.7066	$w_{21}^{(2)}$	-1.0597	$w_{31}^{(2)}$	-1.2112	$w_{41}^{(2)}$	1.1166	
	$w_{12}^{(1)}$	-6.0480	$w_{12}^{(2)}$	-2.6999	$w_{22}^{(2)}$	-2.6874	$w_{32}^{(2)}$	-2.7746	$w_{42}^{(2)}$	-0.8471	
	$w_{13}^{(1)}$	-3.5261	$w_{13}^{(2)}$	2.4365	$w_{23}^{(2)}$	4.4459	$w_{33}^{(2)}$	1.1202	$w_{43}^{(2)}$	-8.6615	
	$w_{14}^{(1)}$	-23.6504	$w_{14}^{(2)}$	-0.2328	$w_{24}^{(2)}$	1.0206	$w_{34}^{(2)}$	1.7925	$w_{44}^{(2)}$	-9.1953	
Bias			$b_1^{(1)}$	2.0703	$b_2^{(1)}$	1.6149	$b_3^{(1)}$	2.2014	$b_4^{(1)}$	4.3699	
			$b_1^{(2)}$	0.6772	$b_2^{(2)}$	2.7496	$b_3^{(2)}$	-5.9743	$b_4^{(2)}$	5.2769	
Output layer											
Weight	$w_{11}^{(3)}$	1.4968	$w_{12}^{(3)}$	2.1381	$w_{13}^{(3)}$	-3.0143	Bias			$b_1^{(3)}$	-0.4790
	$w_{21}^{(3)}$	0.5615	$w_{22}^{(3)}$	-0.0237	$w_{23}^{(3)}$	1.5734				$b_2^{(3)}$	-0.4307
	$w_{31}^{(3)}$	2.4110	$w_{32}^{(3)}$	4.8230	$w_{33}^{(3)}$	4.0869				$b_3^{(3)}$	2.2072
	$w_{41}^{(3)}$	0.0543	$w_{42}^{(3)}$	-0.3122	$w_{43}^{(3)}$	-1.6022				-	