

Confusion Matrix

ground truth

Low Veg. (0) 1,322,085 / 13.7%	82.9%	4.9% 65,357	0.4% 4,731	1.5% 20,195	0.0% 66	0.5% 6,123	3.5% 45,777	1.4% 17,881	4.6% 60,741	0.4% 4,859	0.0% 110	82.9%
Imp. Surface (1) 954,857 / 9.9%	7.8% 74,055	83.1%	1.0% 9,404	2.3% 21,605	1.6% 15,380	2.0% 18,810	0.4% 3,616	0.0% 436	0.5% 4,766	1.4% 13,097	0.0% 411	83.1%
Vehicle (2) 170,122 / 1.8%	0.5% 840	14.8% 25,225	67.0%	12.7% 21,678	0.8% 1,302	1.2% 1,976	0.5% 782	1.7% 2,930	0.3% 555	0.3% 527	0.2% 340	67.0%
Urban Furn. (3) 501,134 / 5.2%	3.0% 14,968	3.2% 15,873	10.4% 52,066	54.3%	2.1% 10,459	7.3% 36,716	8.6% 43,275	6.2% 31,181	0.1% 358	4.2% 20,917	0.6% 3,082	54.3%
Roof (4) 1,085,220 / 11.3%	1.1% 11,632	1.7% 18,000	1.0% 10,408	3.0% 32,436	88.6%	1.7% 18,769	0.2% 1,645	0.5% 4,966	1.6% 17,228	0.1% 708	0.7% 7,609	88.6%
Facade (5) 728,808 / 7.6%	0.9% 6,637	1.9% 13,836	1.9% 13,553	10.3% 75,406	1.9% 14,156	78.6%	1.2% 8,469	0.7% 5,385	0.0% 96	2.3% 17,082	0.2% 1,488	78.6%
Shrub (6) 408,253 / 4.2%	4.6% 18,889	0.4% 1,448	2.3% 9,402	8.3% 33,987	0.1% 468	0.8% 3,158	65.5%	15.4% 62,998	0.0% 32	2.5% 10,273	0.1% 311	65.5%
Tree (7) 4,138,163 / 43.0%	1.0% 42,873	0.0% 19	0.3% 12,795	0.3% 10,459	0.0% 1,092	0.1% 3,104	4.1%	93.9%	0.0% 406	0.2% 10,017	0.1% 4,081	93.9%
Soil / Gravel (8) 157,890 / 1.6%	43.7% 68,987	24.5% 38,638	1.6% 2,490	1.5% 2,386	0.0% 43	0.1% 187	0.7% 1,136	0.1% 210	27.7% 43,789	0.0% 0	0.0% 24	27.7%
Vertical (9) 148,051 / 1.5%	0.2% 335	3.4% 5,071	2.1% 3,064	6.8% 10,103	0.3% 388	20.6% 30,488	0.1% 125	0.2% 284	0.0% 74	66.1% 97,923	0.1% 196	66.1%
Chimney (10) 12,721 / 0.1%	0.0% 0	0.1% 11	0.0% 3	1.1% 136	2.0% 251	0.6% 70	0.1% 13	1.4% 179	0.0% 0	0.0% 0	94.8% 12,058	94.8%
precision	82.1%	81.2%	49.1%	54.4%	95.7%	82.7%	49.5%	96.8%	34.2% 43,789	55.8% 97,923	40.6% 12,058	84.3%
F1 $\mu=68.0\%$	82.5%	82.1%	56.7%	54.4%	92.0%	80.6%	56.3%	95.3%	30.6%	60.5%	56.8%	

prediction

Low Veg. (0)
1,325,461 / 13.9%
Imp. Surface (1)
976,757 / 10.1%
Vehicle (2)
231,883 / 2.4%
Urban Furn. (3)
500,630 / 5.2%
Roof (4)
1,005,424 / 10.4%
Facade (5)
692,101 / 7.2%
Shrub (6)
540,443 / 5.6%
Tree (7)
4,011,449 / 41.7%
Soil / Gravel (8)
128,045 / 1.3%
Vertical (9)
175,403 / 1.8%
Chimney (10)
29,710 / 0.3%