

Segmentation of Dental Restorations on Panoramic Radiographs Using Deep Learning

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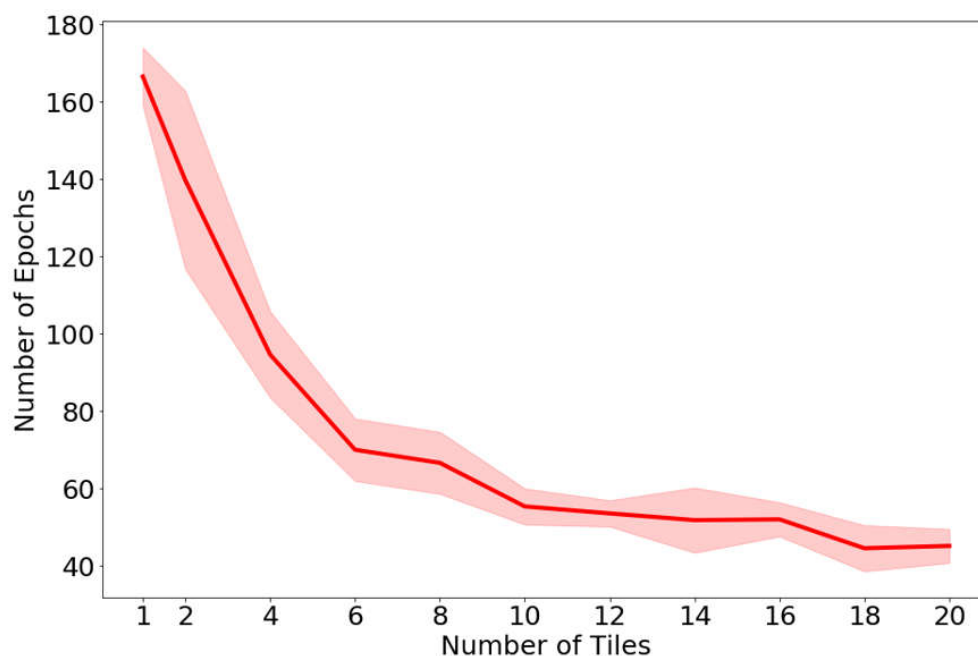


Figure S1. Conversion of model training depending on the number of tiles.

Table S1. Results for different restorations and tile numbers.

Tiles	Epochs	Fillings			
		IoU	Precision	Sensitivity	F-Score
1	166	0.48	0.85	0.56	0.57
2	139	0.68	0.85	0.78	0.77
4	94	0.71	0.87	0.80	0.78
6	70	0.76	0.90	0.83	0.81
8	66	0.89	0.95	0.93	0.92
10	55	0.93	0.97	0.95	0.95
12	53	0.93	0.97	0.95	0.95
14	51	0.91	0.96	0.94	0.93
16	52	0.92	0.97	0.95	0.94
18	44	0.92	0.96	0.94	0.94

20	45	0.93	0.97	0.95	0.94
Root-canal Fillings					
Tiles	Epochs	IoU	Precision	Sensitivity	F-Score
1	166	0.33	0.97	0.33	0.33
2	139	0.55	0.97	0.57	0.57
4	94	0.74	0.95	0.77	0.77
6	70	0.84	0.97	0.86	0.86
8	66	0.86	0.97	0.88	0.88
10	55	0.91	0.98	0.93	0.93
12	53	0.92	0.98	0.94	0.94
14	51	0.95	0.98	0.96	0.96
16	52	0.95	0.98	0.97	0.97
18	44	0.96	0.98	0.97	0.97
20	45	0.96	0.98	0.97	0.97
Crowns					
Tiles	Epochs	IoU	Precision	Sensitivity	F-Score
1	166	0.85	0.91	0.93	0.89
2	139	0.89	0.94	0.94	0.92
4	94	0.87	0.95	0.92	0.90
6	70	0.88	0.95	0.92	0.90
8	66	0.94	0.98	0.96	0.95
10	55	0.97	0.99	0.98	0.97
12	53	0.96	0.99	0.98	0.97
14	51	0.96	0.98	0.97	0.97
16	52	0.97	0.99	0.98	0.97
18	44	0.96	0.98	0.97	0.97
20	45	0.96	0.98	0.98	0.97
Implants					
Tiles	Epochs	IoU	Precision	Sensitivity	F-Score
1	166	0.90	0.99	0.91	0.90
2	139	0.97	0.99	0.98	0.98
4	94	0.98	0.98	0.99	0.98
6	70	0.98	0.99	0.99	0.99
8	66	0.98	0.99	0.99	0.98
10	55	0.99	1.00	0.99	0.99
12	53	0.99	1.00	0.99	0.99
14	51	0.99	1.00	1.00	0.99
16	52	0.99	1.00	1.00	0.99
18	44	0.99	1.00	1.00	0.99
20	45	0.99	1.00	1.00	0.99
Overall					
Tiles	Epochs	IoU	Precision	Sensitivity	F-Score

1	166	0.59	0.87	0.64	0.70
2	139	0.73	0.89	0.79	0.82
4	94	0.74	0.89	0.80	0.82
6	70	0.76	0.91	0.81	0.83
8	66	0.84	0.95	0.87	0.88
10	55	0.90	0.97	0.92	0.92
12	53	0.90	0.97	0.93	0.93
14	51	0.91	0.97	0.94	0.94
16	52	0.92	0.97	0.94	0.95
18	44	0.92	0.97	0.94	0.95
20	45	0.93	0.97	0.95	0.95
