220906-annex 1 - final-prediction-tests-russ-tariq-macad22

modell	trained data	prodiction images	GT - Render DS BATCH	nr	simulation	ccaling	prodiction	% (inaccuracy)		
modeli	8-F-SFB-1-TEX-2050	prediction images 0-GT-render	GI - Render DS BATCH	nr	simulation SOLAR_IRR_TOTAL	scaling	prediction	% (maccuracy)		
				2002	278740000	2787.4	2814.0369	-0.92		
OUR				2003	286030000	2860.3	2797.2712	2.17		
				2004	273440000	2734.4	2803.7158	-2.39		
				2005	290340000	2903.4	2791.6782	3.85		
				2006	276630000	2766.3	2783.117 2821.3137	-0.58		
				2007	275850000	2758.5	2021.3137	-2.17		
		A) A) /35					v2			
					SOLAR_IRR_TOTAL					
				2002	278740000	27874	28140.61	0.92		
				2003 2004	286030000 273440000	28603 27344	27979.047 28043.52	2.15 2.41		
				2005	290340000	29034	27918.521	3.85		
				2006	276630000	27663	27839.791	0.61		
				2007	275850000	27585	28215.03	2.17		
							v3 - RESNETS	0		
					SOLAR_IRR_TOTAL					
RES				2002 2003	278740000 286030000	2787.4 2860.3	2741.5447 2734.2954	1.58 4.34		
RES				2003	273440000	2734.4	2711.8188	0.78		
				2005	290340000	2903.4	2712.5466	6.58		
				2006	276630000	2766.3	2731.9841	1.18		
				2007	275850000	2758.5	2740.2642	0.63		
modell	trained data	prediction images	GT - Real Render							
	8-F-SFB-1-TEX-2050	0-GT-render	1-SFB-TEX	2002	SOLAR_IRR_TOTAL 278740000	2787.4	2814.6	30.4 = 1 % 0.89	99.11	
OUR	Anna Prof.		2-SFB-TEX	2002	286030000	2860.3	2700.9	5.24	94.76	
			3-SFB-TEX	2004	273440000	2734.4	2586.6	4.86	95.14	
			4-SFB-TEX	2005	290340000	2903.4	2918.1	0.48	99.52	
	THE RESERVE OF THE PERSON NAMED IN		5-SFB-TEX	2006	276630000	2766.3	2821.6	1.82	98.18	
			6-SFB-TEX	2007	275850000	2758.5	2879.1	3.97	96.03	
			7-RR-brunomarekallee		25382	2538.2	2641.5	3.40	96.60	
			8-RR-brunomarekallee		25382	2538.2	2797.4	8.53	91.47	
			9-RR-engerthstrasse		27842	2784.2	2803.9	0.65	99.35	
			10-RR-dresdnerstrasse		30543	3054.3	2791.7	8.64	91.36	
			11-RR-laboratoryV1		29575	2957.5	2782.7	5.75	94.25	
			12-RR-laboratoryV2		29913	2991.3	2821.6	5.58	94.42	
			13-RR-laboratoryV3		30971	3097.1	2973.5	4.07	95.93	
			14-RR-online1-X 15-RR-online2 - II		27457 29266	2745.7 2926.6	2973.5 2902.0	7.49 0.81	92.51 99.19	
			15-RR-OHIHEZ - II		29200	2920.0	2902.0	0.81	99.19	
			average prediction							
			accuracy					4.15	95.85	
modell	trained data	prediction images	GT - Real Images							
	8-F-SFB-1-TEX-2050	0-GT-real	6-RR-brunomarekallee		25382	2538.2	2372.5	5.45	94.55	
OUR		A SAME AND ADDRESS OF THE PARTY	7-RR-brunomarekallee		25382	2538.2	1390.7	37.75	62.25	
			8-RR-brunomarekallee		25382	2538.2	1656.7	29.00	71.00	
		Company of the Compan	9-RR-engerthstrasse		27842	2784.2	1550.2	40.59	59.41	
			10-RR-dresdnerstrasse		30543	3054.3	2569.0	15.96	84.04	
			11-RR-laboratoryV1		29575	2957.5	2125.1	27.38	72.62	
			12-RR-laboratoryV2		29913	2991.3	2209.0	25.73	74.27	
			13-RR-laboratoryV3		30971	3097.1	2209.0	29.21	70.79	
			14-RR-online1-X		27457	2745.7	2455.6	9.54	90.46	
			15-RR-online2 - II		29266	2926.6	1851.7	35.36	64.64	
			average prediction							
			accuracy					25.60	74.40	
			,							
modell	trained data	prediction images	GT - Real Images							
buen	8-F-SFB-1-TEX-2050	a1-GT-real-HIST	G. Medi illiages							
	and the second of		6-RR-brunomarekallee		25382	2538.2	2077.2	15.17	84.83	
OUR			7-RR-brunomarekallee		25382	2538.2	2016.7	17.15	82.85	
		and the same of th	8-RR-brunomarekallee 9-RR-engerthstrasse		25382 27842	2538.2 2784.2	2059.7 2048.7	15.74 24.19	84.26 75.81	
		200 000 130 000 EM	10-RR-dresdnerstrasse		30543	3054.3	2124.2	30.60	69.40	
		Total Control of the								
			11-RR-laboratoryV1		29575	2957.5	2097.9	28.27	71.73	
		松生日 1000000	12-RR-laboratoryV2		29913	2991.3	2137.6	28.08	71.92	
			13-RR-laboratoryV3		30971	3097.1	2137.6	31.56	68.44	
			14-RR-online1-X		27457	2745.7	2192.2	18.21	81.79	
			15-RR-online2 - II		29266	2926.6	2113.1	26.76	73.24	
			average prediction							
			accuracy					23.57	76.43	
			,							_

new test new model xx resluts clore to or above 90%

modell	trained data	prediction images	GT - Real Images									
OUR	8-F-SFB-1-TEX-2050	a1-GT-real-CLAHE	6-RR-brunomarekallee 7-RR-brunomarekallee 8-RR-brunomarekallee	25382 25382 25382	2538.2 2538.2 2538.2	2221.1 1782.9 1886.6	10.43 89 24.84 75 21.43 78					
		THE RESERVE AND ADDRESS OF THE PARTY OF THE	9-RR-engerthstrasse 10-RR-dresdnerstrasse	27842 30543	2784.2 3054.3	1877.4 2337.0	29.83 70 23.59 76					
			11-RR-laboratoryV1 12-RR-laboratoryV2 13-RR-laboratoryV3	29575 29913 30971	2957.5 2991.3 3097.1	2111.4 2077.8 2077.8	27.83 72 30.05 69 33.53 66					
	no texture	clahe	14-RR-online1-X 15-RR-online2 - II	27457 29266	2745.7 2926.6	2229.8 2058.6	16.97 83 28.55 71					
			average prediction	23200	2320.0	2030.0	24.71 75	1				
			accuracy				24./1 /3	'				
	trained data 8-F-SFB-1-TEX-2050-CLAHE	prediction images 0-GT-real	GT - Real Images 6-RR-brunomarekallee	25382	2538.2	2566.8	0.94 99					
OUR			7-RR-brunomarekallee 8-RR-brunomarekallee 9-RR-engerthstrasse 10-RR-dresdnerstrasse	25382 25382 25382 27842 30543	2538.2 2538.2 2538.2 2784.2 3054.3	1524.9 1808.7 1694.5 2776.4	33.33 66 24.00 76 35.85 64 9.14 90					
			11-RR-laboratoryV1 12-RR-laboratoryV2	29575 29913	2957.5 2991.3	2302.9 2396.0	21.53 78 19.58 80					
	no texture	45200 LINE DI 100	13-RR-laboratoryV3	30971 27457	3097.1 2745.7	2396.0	23.06 76					
			15-RR-online2 - II	29266	2926.6	2018.9	29.86 70	_				
			average prediction accuracy				20.01 79	I.				
	trained data 8-F-SFB-1-TEX-2050-CLAHE	prediction images a1-GT-real-HIST	GT - Real Images									
OUR	8-F-3FB-1-1EX-2000-CLARE	az or rearring	6-RR-brunomarekallee 7-RR-brunomarekallee	25382 25382	2538.2 2538.2	2255.2 2189.9	9.31 90 11.46 88					
		The second of th	8-RR-brunomarekallee 9-RR-engerthstrasse 10-RR-dresdnerstrasse	25382 27842 30543	2538.2 2784.2 3054.3	2238.0 2225.1 2306.9	9.87 90 18.39 81 24.59 75					
			11-RR-laboratoryV1 12-RR-laboratoryV2	29575 29913	2957.5 2991.3	2274.1 2326.2	22.48 77 21.88 78					
	no texture	HIST	13-RR-laboratoryV3  14-RR-online1-X	30971 27457	3097.1	2326.2	25.36 74					
			15-RR-online2 - II	29266	2745.7 2926.6	2297.6	11.79 88 20.69 79					
			average prediction accuracy				17.58 82					
modell	trained data 8-F-SFB-1-TEX-2050-CLAHE	prediction images a1-GT-real-CLAHE	GT - Real Images									
OUR			6-RR-brunomarekallee 7-RR-brunomarekallee 8-RR-brunomarekallee	25382 25382	2538.2 2538.2	2407.5 1942.8	4.30 95 19.59 80					
			9-RR-engerthstrasse 10-RR-dresdnerstrasse	25382 27842 30543	2538.2 2784.2 3054.3	2055.5 2043.7 2532.8	15.88 84 24.36 75 17.16 82					
			11-RR-laboratoryV1 12-RR-laboratoryV2	29575 29913	2957.5 2991.3	2288.6 2260.4	22.00 78 24.04 75					
	no texture	CLAHE	13-RR-laboratoryV3  14-RR-online1-X	30971 27457	3097.1 2745.7	2260.4 2425.3	27.52 72 10.54 89					
			15-RR-online2 - II  average prediction	29266	2926.6	2240.5	22.57 77					
	Analysis of their	and the state of	accuracy				18.80 81	1				
	trained data 8-F-SFB-1-TEX-2050-CLAHE	prediction images a1-GT-real-ADAME	GT - Real Images 6-RR-brunomarekallee	25382	2538.2	2875.1	11.08 88					
OUR			7-RR-brunomarekallee 8-RR-brunomarekallee 9-RR-engerthstrasse 10-RR-dresdnerstrasse	25382 25382 25382 27842 30543	2538.2 2538.2 2538.2 2784.2 3054.3	3034.8 2887.1 3029.4 2946.3	16.34 83 11.48 88 8.07 91 3.55 96					
			11-RR-laboratoryV1 12-RR-laboratoryV2	29575 29913	2957.5 2991.3	2907.2 2605.5	1.65 98 12.69 87					
	no texture	ADAME	13-RR-laboratoryV3  14-RR-online1-X	30971 27457	3097.1 2745.7	2605.5 2698.3	16.17 83 1.56 98					
	~		15-RR-online2 - II average prediction	29266	2926.6	2717.8	6.87 93					
			accuracy				8.95 <b>91</b>	I .				
	trained data 8-F-SFB-1-TEX-2050-CLAHE	prediction images a1-GT-real-BI-GLOBAL	GT - Real Images	25000	2520.2	2005 =	15.05					
OUR			6-RR-brunomarekallee 7-RR-brunomarekallee 8-RR-brunomarekallee	25382 25382 25382	2538.2 2538.2 2538.2	2995.7 1138.1 1268.5	15.05 84 46.06 53 41.77 58					
		THE REPORT OF THE PARTY OF THE	9-RR-engerthstrasse 10-RR-dresdnerstrasse	27842 30543	2784.2 3054.3	1075.0 3408.2	56.22 43 11.64 88					
		Que cons	11-RR-laboratoryV1 12-RR-laboratoryV2	29575 29913 30971	2957.5 2991.3 3097.1	2888.4 3227.8 3227.8	2.27 97 7.78 92					
	no texture	GLOBAL	13-RR-laboratoryV3  14-RR-online1-X	30971 27457	3097.1 2745.7	3379.1	4.30 95 20.83 79					
			15-RR-online2 - II  average prediction	29266	2926.6	2275.8	21.41 78					
			accuracy				22.73 77	4				

	trained data	prediction images	GT - Real Images																							
OUR	8-F-SFB-1-TEX-2050-CLAHE	a1-GT-real-BI-ADAGA	6-RR-brunomarekallee 7-RR-brunomarekallee	25382 25382	2538.2 2538.2	2956.8 3136.9	13.77 19.69	86.23 80.31																		
30.1			8-RR-brunomarekallee 9-RR-engerthstrasse 10-RR-dresdnerstrasse	25382 27842 30543	2538.2 2784.2 3054.3	3028.6 3183.3 2929.6	16.13 13.13 4.10	83.87 86.87 95.90																		
			11-RR-laboratoryV1 12-RR-laboratoryV2 13-RR-laboratoryV3	29575 29913 30971	2957.5 2991.3 3097.1	2957.5 2659.1 2659.1	0.00 10.93 14.41	100.00 89.07 85.59																		
	no texture	ADAGA	14-RR-online1-X 15-RR-online2 - II	27457 29266	2745.7 2926.6	2710.2 2778.5	1.17 4.87	98.83 95.13																		
			average prediction accuracy				9.82	90.18																		
modell	trained data	prediction images	GT - Real Images																							
OUR	8-F-SFB-1-TEX-2050-CLAHE	a1-GT-real-BI-GAU-OTSU	6-RR-brunomarekallee 7-RR-brunomarekallee	25382 25382	2538.2 2538.2	2999.7 2545.1	15.18 0.23	84.82 99.77																		
0011			8-RR-brunomarekallee 9-RR-engerthstrasse 10-RR-dresdnerstrasse	25382 27842 30543	2538.2 2784.2 3054.3	3308.3 2963.2 3351.9	25.33 5.89 9.79	74.67 94.11 90.21																		
		and the same	11-RR-laboratoryV1 12-RR-laboratoryV2 13-RR-laboratoryV3	29575 29913 30971	2957.5 2991.3 3097.1	2633.5 1999.2 1999.2	10.66 32.63 36.11	89.34 67.37 63.89																		
	no texture	OTSU	14-RR-online1-X 15-RR-online2 - II	27457 29266	2745.7 2926.6	3314.0 2485.2	18.69 14.52	81.31 85.48																		
			average prediction accuracy				16.90	83.10																		
	trained data 8-F-SFB-1-TEX-2050-CLAHE	prediction images	GT - Real Images			real			hist			CLAHE														
RES			6-RR-brunomarekallee 7-RR-brunomarekallee 8-RR-brunomarekallee 9-RR-engerthstrasse 10-RR-dresdnerstrasse	25382 25382 25382 27842 30543	2538.2 2538.2 2538.2 2784.2 3054.3	2386.9 2399.2 2406.5 2403.3 2388.9	4.98 4.57 4.33 12.53 21.89	95.02 95.43 95.67 87.47 78.11	2390.6 2390.3 2403.4 2395.5 2394.9	4.85 4.87 4.43 12.79 21.69	95.15 95.13 95.57 87.21 78.31	2389.3 2392.9 2405.0 2396.7 2392.1	4.90 4.78 4.38 12.75 21.78	95.10 95.22 95.62 87.25 78.22												
			11-RR-laboratoryV1	29575	2957.5	2394.1	18.53	81.47	2394.9	18.51	81.49	2394.1	18.53	81.47												
	no texture		12-RR-laboratoryV2 13-RR-laboratoryV3 14-RR-online1-X	29913 30971 27457	2991.3 3097.1 2745.7	2387.6 2387.6 2393.1	19.86 23.34 11.60	80.14 76.66 88.40	2385.8 2385.8 2410.9	19.92 23.40 11.01	80.08 76.60 88.99	2383.9 2383.9 2405.5	19.98 23.46 11.19	80.02 76.54 88.81												
			15-RR-online2 - II	29266	2926.6	2399.0	17.36	82.64	2396.7	17.43	82.57	2398.6	17.37	82.63												
			average prediction accuracy				13.90	86.10		13.89	86.11		13.91	86.09												
	trained data 8-F-SFB-1-TEX-2050-HIST	prediction images	GT - Real Images			real			hist			CLAHE			adame			BI-global			adaga			otsu		
RES			6-RR-brunomarekallee 7-RR-brunomarekallee 8-RR-brunomarekallee 9-RR-engerthstrasse	25382 25382 25382 27842	2538.2 2538.2 2538.2 2784.2	3052.1 3031.9 3031.3 3029.1	16.91 16.24 16.22 8.05	83.09 83.76 83.78 91.95	3049.9 3049.3 3042.2 3046.1	16.83 16.81 16.58 8.61	83.17 83.19 83.42 91.39	3051.2 3047.6 3040.2 3045.0	16.87 16.76 16.51 8.58	83.13 83.24 83.49 91.42	3038.6 3029.4 3029.8 3032.8	16.46 16.16 16.17 8.18	83.54 83.84 83.83 91.82	3054.9 3047.6 3038.6 3043.3	17.00 16.76 16.46 8.52	83.00 83.24 83.54 91.48	3036.2 3031.8 3029.2 3034.6	16.38 16.24 16.15 8.24	83.62 83.76 83.85 91.76		16.99 17.09 16.73 8.84	83.01 82.91 83.27 91.16
			10-RR-dresdnerstrasse 11-RR-laboratoryV1	30543 29575	3054.3 2957.5	3043.5 3039.7	0.35 2.70	99.65 97.30	3045.1 3039.3	0.30 2.69	99.70 97.31	3045.2 3037.9	0.30 2.65	99.70 97.35	3027.9 3032.6	0.87 2.47	99.13 97.53	3041.8 3042.7	0.41 2.80	99.59 97.20	3029.9 3032.9	0.80	99.20 97.52	3039.8 3040.5	0.48 2.73	99.52 97.27
	no texture		12-RR-laboratoryV2 13-RR-laboratoryV3	29913 30971	2991.3 3097.1	3045.8 3045.8	1.79 1.69	98.21 98.31	3043.4 3043.4	1.71 1.77	98.29 98.23	3044.4 3044.4	1.75 1.73	98.25 98.27	3033.6 3033.6	1.39 2.09	98.61 97.91	3041.5 3041.5	1.65 1.83	98.35 98.17	3035.6 3035.6	1.46 2.02	98.54 97.98	3039.9 3039.9	1.60 1.88	98.40 98.12
	no texture		14-RR-online1-X 15-RR-online2 - II	27457 29266	2745.7 2926.6	3044.3 3041.2	9.82 3.77	90.18 96.23	3041.5 3044.0	9.73 3.86	90.27 96.14	3042.2 3043.0	9.75 3.83	90.25 96.17	3031.4 3031.1	9.40 3.44	90.60 96.56	3044.9 3045.4	9.84 3.91	90.16 96.09	3031.7 3028.4	9.41 3.35	90.59 96.65	3044.6 3040.7	9.83 3.75	90.17 96.25
			average prediction accuracy				7.75	92.25		7.89	92.11		7.87	92.13		7.66	92.34		7.92	92.08		7.65	92.35		7.99	92.01
			GT - Real Images			HIST-CLAHE			HIST-GLOB			HIST-ADAME														
			6-RR-brunomarekallee 7-RR-brunomarekallee 8-RR-brunomarekallee 9-RR-engerthstrasse	25382 25382 25382 27842	2538.2 2538.2 2538.2 2784.2	3049.1 3051.0 3041.1 3047.6	16.80 16.87 16.54 8.67	83.20 83.13 83.46 91.33	3053.4 3057.6 3039.2 3049.9	16.95 17.09 16.48 8.74	83.05 82.91 83.52 91.26	3038.8 3028.4 3029.7 3030.1	16.47 16.12 16.17 8.09	83.53 83.88 83.83 91.91												
			10-RR-dresdnerstrasse  11-RR-laboratoryV1  12-RR-laboratoryV2  13-RR-laboratoryV3	30543 29575 29913 30971	3054.3 2957.5 2991.3 3097.1	3043.0 3037.7 3042.0 3042.0	0.37 2.64 1.67 1.81	99.63 97.36 98.33 98.19	3039.4 3042.2 3037.3 3037.3	0.49 2.79 1.51 1.97	99.51 97.21 98.49 98.03	3029.2 3032.5 3034.5 3034.5	0.82 2.47 1.42 2.06	99.18 97.53 98.58 97.94												
			14-RR-online1-X 15-RR-online2 - II	27457 29266	2745.7 2926.6	3041.2 3043.3	9.72 3.84	90.28 96.16	3030.0 3040.4	9.35 3.74	90.65 96.26	3034.0 3031.7	9.49 3.46	90.51 96.54												
			average prediction accuracy	23200	_525.0	30.3.3	7.89		23.0.4	7.91		2031./	7.66													
							03																			

modell trained data prediction images	GT - Real Images			real			hist			CLA	HE		adame			BI-global			adaga			otsu		
8-F-SFB-1-TEX-2050-BI_GLOBAL	6-RR-brunomarekallee	25382	2538.2			86.39	1867.6	22.06	77.94		83.4		2392.4	4.80	95.20	2481.0	1.88	98.12	2454.7	2.75	97.25	2483.5	1.80	98.20
OUR	7-RR-brunomarekallee 8-RR-brunomarekallee	25382 25382	2538.2 2538.2	1494.4	34.33	57.96 65.67	1811.4 1850.9	23.91 22.61	76.09 77.39		83.4 83.4	16.51	2520.4 2393.0	0.59 4.78	99.41 95.22	945.7 1053.3	52.39 48.85	47.61 51.15	2604.8 2512.9	2.19 0.83	97.81 99.17	2106.0 2737.1	14.22 6.54	85.78 93.46
	9-RR-engerthstrasse 10-RR-dresdnerstrasse	27842 30543	2784.2 3054.3			54.47 75.06	1840.5 1907.9	31.04 37.71	68.96 62.29		91.5 100.		2512.2 2448.6	8.95 19.92	91.05 80.08	890.7 2819.9	62.29 7.71	37.71 92.29	2641.5 2430.7	4.69 20.51	95.31 79.49	2452.2 2772.9	10.92 9.26	89.08 90.74
	11-RR-laboratoryV1	29575	2957.5			65.36	1881.2	35.40	64.60		97.2		2409.5	18.03	81.97	2391.2	18.63	81.37	2455.7	16.51	83.49	2179.4	25.59	74.41
no texture	12-RR-laboratoryV2 13-RR-laboratoryV3	29913 30971	2991.3 3097.1			66.90 63.42	1933.0 1933.0	34.81 38.29	65.19 61.71		98.4 101.		2169.5 2169.5	27.03 30.51	72.97 69.49	2678.7 2678.7	10.28 13.76	89.72 86.24	2213.9 2213.9	25.57 29.05	74.43 70.95	1665.8 1665.8	43.60 47.08	56.40 52.92
no texture	14-RR-online1-X 15-RR-online2 - II	27457 29266	2745.7 2926.6			82.16 58.76	1983.2 1904.8	25.08 33.61	74.92 66.39		90.3 96.2		2244.9 2262.8	16.47 21.83	83.53 78.17	2799.1 1891.0	1.76 34.06	98.24 65.94	2255.1 2312.4	16.14 20.20	83.86 79.80	2746.4 2061.7	0.02 28.45	99.98 71.55
	average prediction																							
	accuracy				32.39	67.61		30.45	69.55		92.0	57 7.33		15.29	84.71		25.16	74.84		13.85	86.15		18.75	81.25
modell trained data prediction images	GT - Real Images			real			hist			CLA	HE		adame			BI-global			adaga			otsu		
8-F-SFB-1-TEX-2050-HIST	6-RR-brunomarekallee	25382	2538.2		29.72	70.28	3018.9	15.81	84.19	322		50 77.40	3828.5	42.44	57.56	4022.4	48.82	51.18	3931.0	45.82	54.18	4028.2	49.01	50.99
OUR	7-RR-brunomarekallee 8-RR-brunomarekallee	25382 25382	2538.2 2538.2	2032.1 2413.3		83.35 95.89	2930.7 2991.9	12.91 14.92	87.09 85.08	259 274			4047.3 3822.5	49.64 42.25	50.36 57.75	1496.7 1664.6	34.26 28.74	65.74 71.26	4189.2 4025.1	54.31 48.91	45.69 51.09	3412.5 4443.5	28.76 62.68	71.24 37.32
	9-RR-engerthstrasse 10-RR-dresdnerstrasse	27842 30543	2784.2 3054.3			82.79 77.98	2976.7 3085.9	6.33 1.04	93.67 98.96	273 339			4027.4 3938.5	40.89 29.08	59.11 70.92	1407.6 4579.6	45.28 50.17	54.72 49.83	4246.0 3901.0	48.09 27.85	51.91 72.15	3977.8 4503.9	39.26 47.69	60.74 52.31
	11-RR-laboratoryV1	29575	2957.5	3087.0		95.74	3048.2	2.98	97.02	306			3901.3	31.05	68.95	3877.3	30.26	69.74	3969.0	33.27	66.73	3532.5	18.91	81.09
no texture	12-RR-laboratoryV2 13-RR-laboratoryV3	29913 30971	2991.3 3097.1	3207.7 3207.7		92.88 96.36	3106.3 3106.3	3.78 0.30	96.22 99.70	302 302			3454.3 3454.3	15.23 11.75	84.77 88.25	4318.7 4318.7	43.66 40.18	56.34 59.82	3525.5 3525.5	17.57 14.09	82.43 85.91	2659.1 2659.1	10.93 14.41	89.07 85.59
no texture	14-RR-online1-X 15-RR-online2 - II	27457 29266	2745.7 2926.6			73.16 92.44	3185.2 3072.6	14.46 4.80	85.54 95.20	323 299			3580.3 3608.3	27.46 22.42	72.54 77.58	4536.0 3036.4	58.89 3.61	41.11 96.39	3595.1 3689.4	27.94 25.09	72.06 74.91	4452.8 3327.3	56.15 13.18	43.85 86.82
	average prediction																							
	accuracy				13.91	86.09		7.73	92.27		6.9	7 93.03		31.22	68.78		38.39	61.61		34.29	65.71		34.10	65.90
	GT - Real Images		ŀ	HIST-CLAHE			HIST-GLOB			HIST-A	DAME													
	6-RR-brunomarekallee 7-RR-brunomarekallee	25382 25382	2538.2 2538.2			86.36 85.19	3222.3 3408.1	22.50 28.61	77.50 71.39	363 391														
	8-RR-brunomarekallee 9-RR-engerthstrasse	25382 27842	2538.2 2784.2	3073.1	17.60	82.40 89.46	4110.4 3897.9	51.72 36.63	48.28 63.37	362 375	9.7 35.9	90 64.10												
	10-RR-dresdnerstrasse	30543	3054.3			99.14	3846.0	26.04	73.96	377														
	11-RR-laboratoryV1 12-RR-laboratoryV2	29575 29913	2957.5 2991.3	3111.2	3.94	97.54 96.06	3632.4 3469.7	22.20 15.74	77.80 84.26	388 351	4.8 17.2	22 82.78												
	13-RR-laboratoryV3  14-RR-online1-X	30971 27457	3097.1 2745.7			99.54 87.26	3469.7 3606.7	12.26 28.32	87.74 71.68	351 345														
	15-RR-online2 - II	29266	2926.6			95.88	3332.5	13.35	86.65	358														
	average prediction accuracy				8.12	91.88		25.74	74.26		27.9	93 72.07												
modell trained data prediction images 8-F-SFB-1-TEX-2050-CLAHE-BI-GLO	GT - Real Images			real			hist			CLA	HE		adame			BI-global			adaga			otsu		
OUR	6-RR-brunomarekallee 7-RR-brunomarekallee	25382 25382	2538.2 2538.2	2374.4 1408.9		94.61 62.85	2085.9 2024.7	14.88 16.89	85.12 83.11	222 179			2648.5 2802.7	3.63 8.70	96.37 91.30	2772.3 1048.5	7.70 49.00	92.30 51.00	2721.6 2899.4	6.03 11.88	93.97 88.12	2775.9 2354.6	7.82 6.04	92.18 93.96
	8-RR-brunomarekallee 9-RR-engerthstrasse	25382 27842	2538.2 2784.2	1565.0	40.11	71.42 59.89	2066.3 2055.8	15.52 23.96	84.48 76.04	189 188	7.4 29.5	70.50	2650.8 2790.4	3.70 0.20	96.30 99.80	1163.8 985.3	45.21 59.17	54.79 40.83	2790.5 2939.8	8.30 5.12	91.70 94.88	3059.2 2740.8	17.14 1.43	82.86 98.57
	10-RR-dresdnerstrasse	30543	3054.3			83.95	2129.8	30.41	69.59	233			2719.7	11.01	88.99	3153.1	3.25	96.75	2694.3	11.84	88.16	3101.1	1.54	98.46
	11-RR-laboratoryV1 12-RR-laboratoryV2 13-RR-laboratoryV3	29575 29913 30971	2991.3	2215.7	25.51	72.81 74.49 71.01	2104.5 2150.5 2150.5	28.06 27.66 31.14	71.94 72.34 68.86	211 209 209		55 70.35	2691.8 2403.0 2403.0	8.74 19.35 22.83	91.26 80.65 77.17	2672.9 2985.3 2985.3	9.36 0.20 3.68	90.64 99.80 96.32	2739.7 2452.6 2452.6	7.16 17.72 21.20	92.84 82.28 78.80	2436.9 1846.2 1846.2	17.13 37.67 41.15	82.87 62.33 58.85
no texture	14-RR-online1-X	27457	2745.7			90.57	2206.9	17.72	82.28	224			2488.2	8.47	91.53	3124.7	12.47	87.53	2499.5	8.10	91.90	3066.3	10.55	89.45
	15-RR-online2 - II	29266	2926.6	1865.9	34.89	65.11	2124.0	26.40	73.60	207	1.0 28.3	15 71.85	2509.1	13.74	86.26	2104.3	27.05	72.95	2564.7	11.90	88.10	2299.5	20.63	79.37
	average prediction accuracy				25.33	74.67		23.26	76.74		24.3	39 75.61		10.04	89.96		21.71	78.29		10.93	89.07		16.11	83.89
	GT - Real Images			CLA-GLOB																				
	6-RR-brunomarekallee	25382	2538.2	2477.0		97.99		83.49	16.51															
	7-RR-brunomarekallee 8-RR-brunomarekallee	25382 25382	2538.2 2538.2			87.40 95.53		83.49 83.49	16.51 16.51															
	9-RR-engerthstrasse 10-RR-dresdnerstrasse	27842 30543	2784.2 3054.3			91.76 93.10		91.59 100.47	8.41 -0.47															
	11-RR-laboratoryV1	29575	2957.5			79.60 77.79		97.29 98.40	2.71 1.60															
	12-RR-laboratoryV2 13-RR-laboratoryV3	29913 30971	2991.3 3097.1			77.79 74.31		101.88	1.60 -1.88															
	14-RR-online1-X 15-RR-online2 - II	27457 29266	2745.7 2926.6			96.91 77.06		90.32 96.27	9.68 3.73															
	average prediction																							
	accuracy				12.86	87.14		92.67	7.33															

modell	trained data	prediction images	GT - Real Images			real			hist			CLAHE			adame			BI-glo	al		adaga			otsu		
	8-F-SFB-1-TEX-2050-ADAME		6-RR-brunomarekallee	25382	2538.2	2358.1	5.92	94.08	2068.7	15.45	84.55	2210.0	10.79	89.21	2651.1	3.72	96.28	2757	6 7.22	92.78	2726.7	6.20	93.80	2760.7	7.32	92.68
OUR			7-RR-brunomarekallee	25382	2538.2	1391.8	37.71	62.29	2008.6	17.42	82.58	1779.1	24.97	75.03	2796.5		91.50	1032		50.46	2892.4	11.65	88.35	2339.0	6.55	93.45
			8-RR-brunomarekallee	25382	2538.2	1655.4	29.04	70.96	2053.3	15.95	84.05	1884.1	21.52	78.48	2659.5		96.01	1152		54.41	2790.8	8.31	91.69	3046.5	16.72	83.28
			9-RR-engerthstrasse	27842	2784.2	1549.1	40.63	59.37	2040.9	24.45	75.55	1872.7	29.98	70.02	2791.5		99.76	972.		40.40	2936.8	5.02	94.98	2726.4	1.90	98.10
			10-RR-dresdnerstrasse	30543	3054.3	2552.1	16.52	83.48	2116.0	30.87	69.13	2325.5	23.97	76.03	2709.1		88.64	3139		97.20	2695.7	11.79	88.21	3086.7	1.07	98.93
			11-RR-laboratoryV1	29575	2957.5	2112.5	27.79	72.21	2085.5	28.68	71.32	2098.8	28.25	71.75	2672.9	9.36	90.64	2656	5 9.90	90.10	2719.6	7.83	92.17	2420.4	17.67	82.33
			12-RR-laboratoryV2	29913	2991.3	2198.8	26.07	73.93	2133.6	28.22	71.78	2072.5	30.22	69.78	2392.2		80.29	2977		99.53	2442.6	18.05	81.95	1830.4	38.19	61.81
	,,		13-RR-laboratoryV3	30971	3097.1	2198.8	29.55	70.45	2133.6	31.70	68.30	2072.5	33.71	66.29	2392.2		76.81	2977		96.05	2442.6	21.53	78.47	1830.4	41.67	58.33
	no texture																									
			14-RR-online1-X	27457	2745.7	2444.1	9.92	90.08	2191.3	18.24	81.76	2226.5	17.08	82.92	2480.0	8.74	91.26	3114	8 12.14	87.86	2490.4	8.40	91.60	3051.7	10.06	89.94
			15-RR-online2 - II	29266	2926.6	1850.1	35.41	64.59	2108.5	26.91	73.09	2055.4	28.66	71.34	2497.4	14.12	85.88	2089	8 27.53	72.47	2554.1	12.25	87.75	2285.1	21.10	78.90
			average prediction																							
			accuracy				25.86	74.14		23.79	76.21		24.92	75.08		10.29	89.71		21.87	78.13		11.10	88.90		16.22	83.78
			GT - Real Images			HIST-ADAME																				
			6-RR-brunomarekallee	25382	2538.2	2516.7	0.71	99.29		83.49	16.51															
			7-RR-brunomarekallee	25382	2538.2	2705.8	5.51	94.49		83.49	16.51															
			8-RR-brunomarekallee	25382	2538.2	2527.5	0.35	99.65		83.49	16.51															
			9-RR-engerthstrasse	27842	2784.2		5.81	94.19		91.59	8.41															
			10-RR-dresdnerstrasse	30543	3054.3	2593.6	15.15	84.85		100.47	-0.47															
			10 III di esancistrasse	30313	3031.3	2333.0	15.15	01.03		100.17	0.47															
			11-RR-laboratoryV1	29575	2957.5	2662.3	9.71	90.29		97.29	2.71															
			12-RR-laboratoryV2	29913	2991.3	2434.2	18.33	81.67		98.40	1.60															
			13-RR-laboratoryV3	30971	3097.1	2434.2	21.81	78.19		101.88	-1.88															
			, , , , ,																							
			14-RR-online1-X	27457	2745.7	2397.0	11.47	88.53		90.32	9.68															
			15-RR-online2 - II	29266	2926.6	2483.2	14.58	85.42		96.27	3.73															
			average prediction																							
			accuracy				10.34	89.66		92.67	7.33															
modell	trained data	prediction images	GT - Real Images			real			hist			CLAHE			adame			BI-glo	al		adaga			otsu		
moden	8-F-SFB-1-TEX-2050-OTSU	prediction images	C. Medi images			rear			11150			CENTE			dadine			2. 8.0			ишиди			Otou		
			6-RR-brunomarekallee	25382	2538.2	2645.0	3.51	96.49	2318.9	7.21	92.79	2477.7	1.99	98.01	2923.7	12.68	87.32	3090	0 18.15	81.85	3008.5	15.47	84.53	3095.0	18.32	81.68
OUR			7-RR-brunomarekallee	25382	2538.2	1562.1	32.11	67.89	2252.7	9.39	90.61	1994.5	17.88	82.12	3100.5	18.50	81.50	1147	1 45.76	54.24	3211.1	22.13	77.87	2622.9	2.79	97.21
			8-RR-brunomarekallee	25382	2538.2	1854.9	22.48	77.52	2298.9	7.87	92.13	2107.7	14.16	85.84	2931.1		87.08	1273		58.40	3086.4	18.03	81.97	3414.5	28.83	71.17
			9-RR-engerthstrasse	27842	2784.2	1737.8	34.42	65.58	2287.2	16.35	83.65	2098.1	22.57	77.43	3086.1		90.07	1077		43.86	3254.8	15.48	84.52	3056.4	8.95	91.05
			10-RR-dresdnerstrasse	30543	3054.3	2862.0	6.33	93.67	2370.3	22.50	77.50	2605.2	14.77	85.23	3016.8	1.23	98.77	3520	3 15.33	84.67	2986.4	2.23	97.77	3462.1	13.41	86.59
			11-RR-laboratoryV1	29575	2957.5	2373.1	19.22	80.78	2343.1	20.21	79.79	2358.0	19.72	80.28	2996.5		98.72	2980		99.26	3043.9	2.84	97.16	2716.8	7.92	92.08
			12-RR-laboratoryV2	29913	2991.3	2463.6	17.36	82.64	2383.2	20.00	80.00	2317.6	22.16	77.84	2645.0		88.61	3314		89.37	2700.5	9.57	90.43	2036.8	31.40	68.60
			13-RR-laboratoryV3	30971	3097.1	2463.6	20.84	79.16	2383.2	23.48	76.52	2317.6	25.64	74.36	2645.0	14.87	85.13	3314	4 7.15	92.85	2700.5	13.05	86.95	2036.8	34.88	65.12
	no texture		14-RR-online1-X	27457	2745.7	2735.5	0.34	99.66	2443.2	9.95	90.05	2485.2	8.57	91.43	2741.3	0.15	99.85	3482	5 24.24	75.76	2752.9	0.24	99.76	3418.9	22.15	77.85
			15-RR-online2 - II	29266	2926.6	2069.9	28.18	71.82	2358.1	18.70	81.30	2465.2	20.68	79.32	2741.3		94.64	2327		80.29	2827.0	3.28	96.72	2552.4	12.31	87.69
			15 III. Offinez - II	23200	2320.0	2003.3	20.10	71.02	2550.1	10.70	01.50	2237.0	20.00	75.52	2703.7	5.50	54.04	2327	15.71	00.25	2027.0	3.20	30.72	2332.4	12.51	07.03
			average prediction																							
			accuracy				18.48	81.52		15.57	84.43		16.82	83.18		8.83	91.17		23.94	76.06		10.23	89.77		18.09	81.91
			CT. Deal Inc.			HIST-ADAME			, uce of ce			01 ALIF 01 00 00														
			GT - Real Images			HIST-ADAME			HIST-GLOBAL			CLAHE-GLOBA	L													
			6-RR-brunomarekallee	25382	2538.2	2771.7	7.68	92.32	2473.9	2.12	97.88	2753.7	7.09	92.91												
			7-RR-brunomarekallee	25382 25382	2538.2	2995.1	15.03	92.32 84.97	2473.9	2.12	97.88	2753.7	4.83	92.91 95.17												
			8-RR-brunomarekallee	25382	2538.2	2782.1	8.02	91.98	3153.7	20.25	79.75	2657.9	3.94	96.06												
			9-RR-engerthstrasse	27842	2784.2	2878.4	3.10	96.90	2993.8	6.90	93.10	2814.4	0.99	99.01												
			10-RR-dresdnerstrasse	30543	3054.3	2886.4	5.52	94.48	2951.3	3.39	96.61	3167.5	3.72	96.28												
			11-RR-laboratoryV1	29575	2957.5	2984.1	0.87	99.13	2792.0	5.44	94.56	2603.5	11.65	88.35												
			12-RR-laboratoryV2	29913	2991.3	2692.5	9.83	90.17	2659.8	10.90	89.10	2557.2	14.28	85.72												
			13-RR-laboratoryV3	30971	3097.1	2692.5	13.31	86.69	2659.8	14.38	85.62	2557.2	17.76	82.24												
			14-RR-online1-X	27457	2745.7	2647.8	3.22	96.78	2763.0	0.57	99.43	2929.2	6.04	93.96												
			15-RR-online2 - II	29266	2926.6	2747.9	5.88	94.12	2556.0	12.19	87.81	2469.3	15.04	84.96												
			average prediction				7.25	92.75		7 00	02.12		0.53	01.47												
			average prediction accuracy				7.25	92.75		7.88	92.12		8.53	91.47												
							7.25	92.75		7.88	92.12		8.53	91.47												

		0-GT-render							
					SOLAR_IRR_TOTA	.L		30.4 = 1 %	
OUR	- Arrange - Arra		1-SFB-TEX	2002	278740000	2787.4	2797.6	0.34	99.66
			2-SFB-TEX	2003	286030000	2860.3	2684.4	5.78	94.22
			3-SFB-TEX	2004	273440000	2734.4	2572.6	5.32	94.68
			4-SFB-TEX	2005	290340000	2903.4	2900.5	0.10	99.90
			5-SFB-TEX	2006	276630000	2766.3	2804.7	1.26	98.74
			6-SFB-TEX	2007	275850000	2758.5	2861.5	3.39	96.61
			7-RR-brunomarekallee		25382	2538.2	2627.6	2.94	97.06
	with texture	no texture	8-RR-brunomarekallee		25382	2538.2	2781.0	7.99	92.01
			9-RR-engerthstrasse		27842	2784.2	2787.3	0.10	99.90
			10-RR-dresdnerstrasse		30543	3054.3	2775.1	9.18	90.82
			11-RR-laboratoryV1		29575	2957.5	2766.7	6.28	93.72
			12-RR-laboratoryV2		29913	2991.3	2804.6	6.14	93.86
			13-RR-laboratoryV3		30971	3097.1	2954.5	4.69	95.31
			14-RR-online1-X		27457	2745.7	2954.5	6.87	93.13
			15-RR-online2 - II		29266	2926.6	2883.1	1.43	98.57
			average prediction						
			accuracy					4.12	95.88

modell	trained data 8-F-SFB-1-2050	prediction images 0-GT-real	GT - Real Images							
OUR		AND THE PERSON NAMED IN	6-RR-brunomarekallee 7-RR-brunomarekallee		25382 25382	2538.2 2538.2	2363.7 1398.7	5.74 37.48	94.26 62.52	
			8-RR-brunomarekallee 9-RR-engerthstrasse		25382 27842	2538.2 2784.2	1660.4 1555.3	28.87 40.43	71.13 59.57	
		and the same of th	10-RR-dresdnerstrasse		30543	3054.3	2556.1	16.39	83.61	
			11-RR-laboratoryV1 12-RR-laboratoryV2		29575 29913	2957.5 2991.3	2119.5 2204.2	27.56 25.89	72.44 74.11	
	with texture		13-RR-laboratoryV3		30971	3097.1	2204.2	29.37	70.63	
	with texture		14-RR-online1-X 15-RR-online2 - II		27457 29266	2745.7 2926.6	2447.6 1854.2	9.81 35.28	90.19 64.72	
			average prediction accuracy					25.68	74.32	
modell	trained data 8-F-SFB-1-TEX-2050	prediction images 0-GT-render	GT - Real Images							
RESNET50			1-SFB-TEX	2002	SOLAR_IRR_TOT/ 278740000	2787.4	2755.6	30.4 = 1 % 1.05	98.95	
			2-SFB-TEX 3-SFB-TEX	2003 2004	286030000 273440000	2860.3 2734.4	2756.3 2755.5	3.42 0.69	96.58 99.31	
			4-SFB-TEX 5-SFB-TEX	2005 2006	290340000 276630000	2903.4 2766.3	2756.0 2757.1	4.85 0.30	95.15 99.70	
			6-SFB-TEX	2007	275850000	2758.5	2755.0	0.12	99.88	
	no texture	no texture	7-RR-brunomarekallee 8-RR-brunomarekallee		25382 25382	2538.2 2538.2	2755.9 2755.6	7.16 7.15	92.84 92.85	
			9-RR-engerthstrasse 10-RR-dresdnerstrasse		27842 30543	2784.2 3054.3	2755.0 2755.7	0.96 9.82	99.04 90.18	
			11-RR-laboratoryV1		29575	2957.5	2756.3	6.62	93.38	
			12-RR-laboratoryV2 13-RR-laboratoryV3		29913 30971	2991.3 3097.1	2804.6 2757.1	6.14 11.18	93.86 88.82	
			14-RR-online1-X 15-RR-online2 - II		27457 29266	2745.7 2926.6	2757.1 2757.6	0.38 5.56	99.62 94.44	
			average prediction							
			accuracy					4.36	95.64	
modell	trained data	prediction images	GT - Real Images							
	8-F-SFB-1-TEX-2050	0-GT-real	6-RR-brunomarekallee		25382	2538.2	2755.4	7.14	92.86	
RESNET50			7-RR-brunomarekallee 8-RR-brunomarekallee		25382 25382	2538.2 2538.2	2753.2 2754.6	7.07 7.12	92.93 92.88	
		CHARLES OF THE CHARLE	9-RR-engerthstrasse 10-RR-dresdnerstrasse		27842 30543	2784.2 3054.3	2754.6 2756.2	0.97 9.81	99.03 90.19	
			11-RR-laboratoryV1		29575	2957.5	2754.8	6.67	93.33	
			12-RR-laboratoryV2 13-RR-laboratoryV3		29913 30971	2991.3 3097.1	2754.7 2754.7	7.78 11.26	92.22 88.74	
			14-RR-online1-X		27457	2745.7	2756.5	0.36	99.64	
			15-RR-online2 - II		29266	2926.6	2753.6	5.69	94.31	
			average prediction accuracy					6.39	93.61	
modell	trained data	prediction images	GT - Real Images							
	8-F-SFB-1-TEX-2050	a1-GT-real-HIST	6-RR-brunomarekallee		25382	2538.2	2755.2	7.14	92.86	
RESNET50			7-RR-brunomarekallee 8-RR-brunomarekallee		25382 25382	2538.2 2538.2	2754.4 2755.4	7.11 7.15	92.89 92.85	
		THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS O	9-RR-engerthstrasse 10-RR-dresdnerstrasse		27842 30543	2784.2 3054.3	2754.5 2754.5	0.98 9.86	99.02 90.14	
		d me all	11-RR-laboratoryV1		29575	2957.5	2754.0	6.69	93.31	
		CHI LED MA	12-RR-laboratoryV2 13-RR-laboratoryV3		29913 30971	2991.3 3097.1	2750.9 2750.9	7.91 11.39	92.09 88.61	
			14-RR-online1-X		27457	2745.7	2755.2	0.31	99.69	
			15-RR-online2 - II		29266	2926.6	2753.2	5.70	94.30	
			average prediction accuracy					6.42	93.58	
modell	trained data	prediction images	GT - Real Images							
	8-F-SFB-1-TEX-2050	a1-GT-real-CLAHE	6-RR-brunomarekallee		25382	2538.2	2755.2	7.14	92.86	
RESNET50			7-RR-brunomarekallee 8-RR-brunomarekallee		25382 25382	2538.2 2538.2	2753.6 2754.8	7.08 7.13	92.92 92.87	
			9-RR-engerthstrasse 10-RR-dresdnerstrasse		27842 30543	2784.2 3054.3	2754.4 2755.0	0.98 9.85	99.02 90.15	
			11-RR-laboratoryV1		29575	2957.5	2753.6	6.71	93.29	
		始生国际下门	12-RR-laboratoryV2 13-RR-laboratoryV3		29913 30971	2991.3 3097.1	2752.0 2752.0	7.87 11.35	92.13 88.65	
			14-RR-online1-X		27457	2745.7	2755.7	0.33	99.67	
			15-RR-online2 - II		29266	2926.6	2753.0	5.71	94.29	
			average prediction accuracy					6.41	93.59	