

1 Tilføjelse til rapport

Efter aflevering af rapport er det lykkedes at få kNN til at virke. Det giver nye resultater til brikgenkendelse. For at afgører hvor god koden nu er til at genkende brik type, laver vi nye confusion matrix. Første for vores træningsdata (1-50), der nu har 98,16% korrekte gæt. Se Tabel 1 og Figur 1.

	lake	forest	grass	field	swamp	mine	start	none
lake	222	0	0	0	0	0	0	0
forest	0	271	1	0	0	0	0	0
grass	0	3	168	0	0	0	0	0
field	0	0	1	313	0	0	0	0
swamp	0	0	0	0	120	0	1	0
mine	0	0	0	0	0	72	0	0
start	0	9	0	0	7	1	33	0
none	0	0	0	0	0	0	0	28

Tabel 1: Confusion Matrix til træning på billede 1 til 50

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ANALYSIS:
For all images 1227 was correct out of 1250 tiles. That is 98.16%
Fields: 313 out of 314 is correct. That is 99.68152866242038%
Forest: 271 out of 272 is correct. That is 99.63235294117648%
Grass: 168 out of 171 is correct. That is 98.24561403508771%
Lake: 222 out of 222 is correct. That is 100.0%
Mine: 72 out of 72 is correct. That is 100.0%
Start: 33 out of 50 is correct. That is 66.0%
Swamp: 120 out of 121 is correct. That is 99.17355371900827%
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Figur 1: Enter Caption

Derefter en for test billeder (51-74), som nu har 95,5% korrekte gæt. Se Tabel 1 og Figur ??.

	lake	forest	grass	field	swamp	mine	start	none
lake	109	0	0	0	0	0	0	0
forest	0	129	6	0	0	0	0	0
grass	0	4	74	0	1	0	0	0
field	0	0	0	156	0	0	0	0
swamp	0	0	0	0	59	0	0	1
mine	0	1	0	0	0	35	1	0
start	0	0	1	0	10	2	11	0
none	0	0	0	0	0	0	0	0

Tabel 2: Confusion Matrix til test på billede 51 til 74

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ANALYSIS:  
For all images 573 was correct out of 600 tiles. That is 95.5%  
Fields: 156 out of 156 is correct. That is 100.0%  
Forest: 129 out of 135 is correct. That is 95.55555555555556%  
Grass: 74 out of 79 is correct. That is 93.67088607594937%  
Lake: 109 out of 109 is correct. That is 100.0%  
Mine: 35 out of 37 is correct. That is 94.5945945945946%  
Start: 11 out of 24 is correct. That is 45.83333333333333%  
Swamp: 59 out of 60 is correct. That is 98.33333333333333%
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Figur 2: Enter Caption