









 Show to the neuronal network the predictors (height, temperature, vorticity, vertical, velocity, stability, wind,...) and the predictand (rainfall, wind,...) by the mean of supervised learning.

Supervised learning, preliminary results

Predictors: H 500 hPa, T850 hPa Predictand: 24 hour precipitation Lugano Thresholds: 1, 5, 10, 20, 50 mm

Next figure shows 10mm/24 hours on validation set

Thanks to Ralf Kretschmar









Rainfaill Lugano > 50 mm					
UNN + PP			MLP CSC		
prob %	obs	no obs	PredProbRange obs no o	bs	
0- 9	105	14090	[0.00,0.10[ 5 24]	L7	
10- 19	63	397	[0.10,0.20[ 5 12	28	
20- 29	38	106	[0.20,0.30[ 3 8	30	
30- 39	6	10	[0.30,0.40[ 5	55	
40- 49	0	0	[0.40,0.50[ 1	10	
50- 59	6	6	[0.50,0.60[ 9 3	34	
60- 69	0	0	[0.60,0.70[ 10 5	58	
70- 79	0	0	[0.70,0.80[ 6 2	24	
80- 89	5	1	[0.80,0.90[ 12 2	25	
90- 99	0	0	[0.90,1.00] 3	2	

