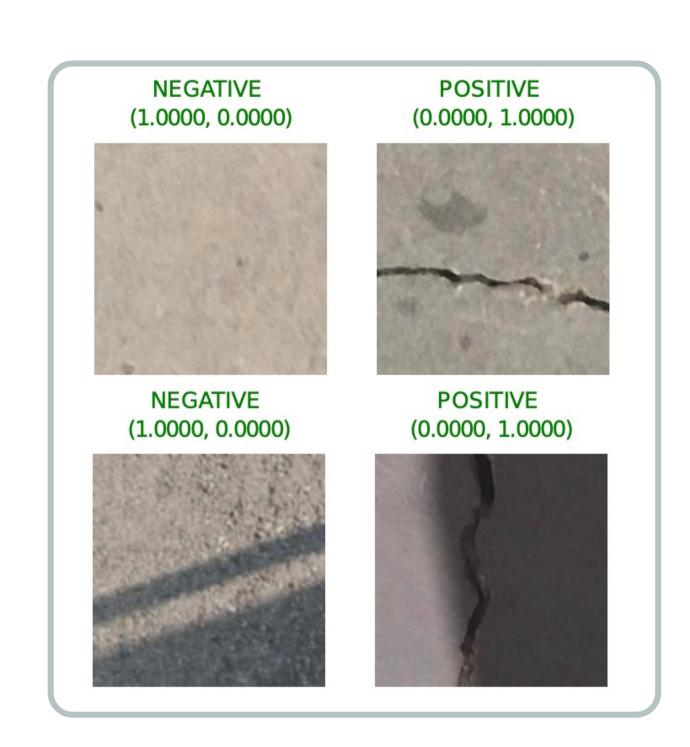


## U.Orinaitė, J.Ragulskienė. 1D Wada Index for the Classification of Digital Images of Concrete Cracks





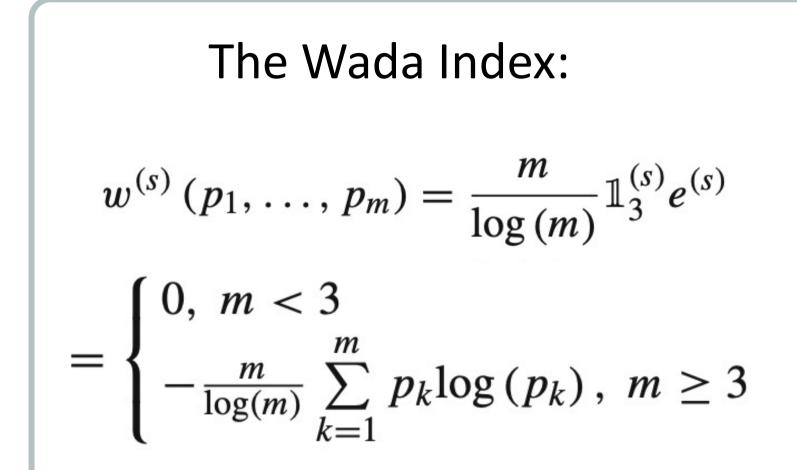


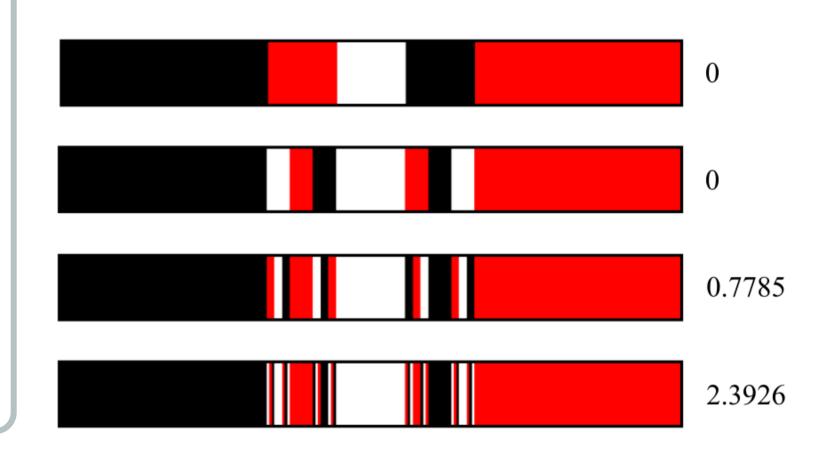
Layer No.	Layer Name	Layer No.	Layer Name	
1	Image input layer	14	Convolutional layer	
2	Convolutional layer	15	ReLU layer	
3	ReLU layer	16	Max-pooling layer	
4	Cross-channel normalization layer	17	Fully connected layer	
5	Max-pooling layer	18	ReLU layer	
6	Convolutional layer	19	Dropout layer	
7	ReLU layer	20	Fully connected layer	
8	Cross-channel normalization layer	21	ReLU layer	
9	Max-pooling layer	22	Dropout layer	
10	Convolutional layer	23	Fully connected layer	
11	ReLU layer	24	Softmax layer	
12	Convolutional layer	25	Classification output layer	
13	ReLU layer		•	

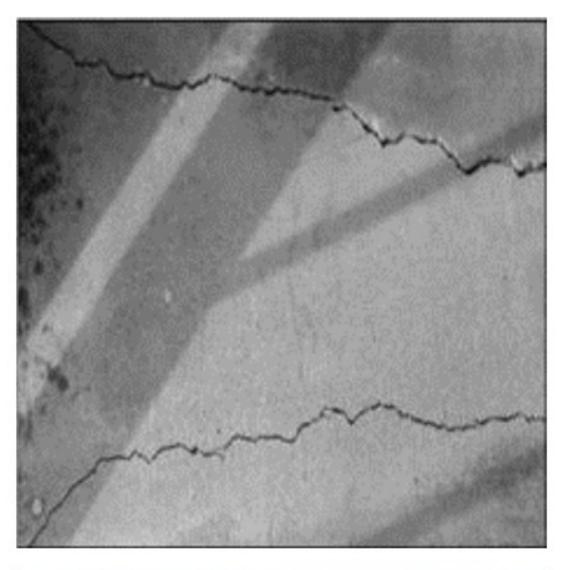
		Predicted	
		Negative	Positive
Actual	Negative	5985	15
	Positive	11	5989
		Accuracy=0.9978	

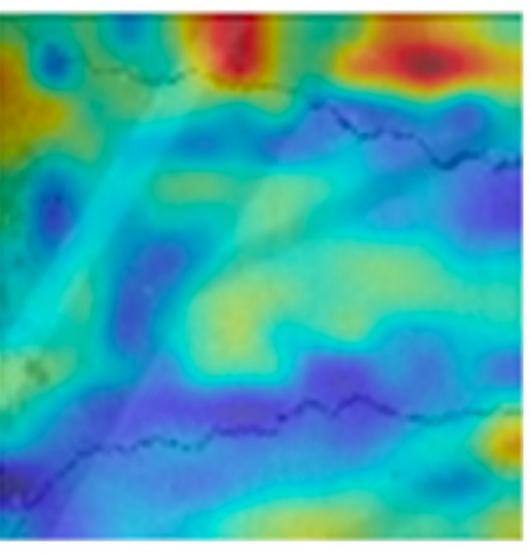
		Predicted	
		Negative	Positive
Actual	Negative	5003	997
	Positive	149	5851
		Accuracy=0.9045	

			Predicted		
			Negative	Positive	
	ual	Negative	5941	59	
	Actual	Positive	12	5988	
			Accurac	y <b>=0.9941</b>	













Wada index based on the weighted and truncated Shannon entropy. **Nonlinear Dynamics** (2021) vol.104(1) p.739-751. An overview of challenges associated with automatic detection of concrete cracks in the presence of shadows. **Applied Sciences** (2021) art.no.1136.