Index DataBase

A database for remote sensing indices

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Nr	Name	Abbrev.	Formula	Variables
1	Aerosol free vegetation index 1600	AFRI1600	$\left(\text{NIR} - 0.66\frac{1600\text{nm}}{\text{NIR}+0.661600\text{nm}}\right)$	
2	Aerosol free vegetation index 2100	AFRI2100	$\left(\text{NIR} - 0.5\frac{2100\text{nm}}{\text{NIR}+0.562100\text{nm}}\right)$	
3	Ashburn Vegetation Index	AVI	$2.0[800{:}1100] - [600{:}700]$	
4	Atmospherically Resistant Vegetation Index	ARVI	$\frac{\text{NIR}-\text{RED}-y(\text{RED}-\text{BLUE})}{\text{NIR}+\text{RED}-y(\text{RED}-\text{BLUE})}$	NIR = [781:1399]
5	Atmospherically Resistant Vegetation Index 2	ARVI2	$-0.18 + 1.17\left(\frac{\text{NIR}-\text{RED}}{\text{NIR}+\text{RED}}\right)$	
6	Blue-wide dynamic range vegetation index	BWDRVI	$\frac{0.1\text{NIR}-\text{BLUE}}{0.1\text{NIR}+\text{BLUE}}$	
7	Chlorophyll vegetation index	CVI	$\text{NIR}\frac{\text{RED}}{\text{GREEN}^2}$	
8	Corrected Transformed Vegetation Index	CTVI	$\frac{\text{NDVI}+0,5}{|\text{NDVI}+0,5|}\cdot\sqrt{|(\text{NDVI})+0,5|}$	
9	Difference NIR/Green Green Difference Vegetation Index	GDVI	$\text{NIR} - G$	
10	Differenced Vegetation Index MSS	DVIMSS	$2.4[800{:}1100] - [600{:}700]$	
11	Enhanced Vegetation Index	EVI	$2.5\frac{\text{NIR}-\text{RED}}{(\text{NIR}+6\text{RED}-7.5\,\text{BLUE})+1}$	
12	Enhanced Vegetation Index 2 -2	EVI2	$2.5\frac{\text{NIR}-\text{RED}}{\text{NIR}+2.4\text{RED}+1}$	
13	Enhanced Vegetation Index 2	EVI2	$2.4\frac{\text{NIR}-\text{RED}}{\text{NIR}+\text{RED}+1}$	
14	Global Vegetation Moisture Index	GVMI	$\frac{(\text{NIR}+0.1)-(\text{SWIR}+0.02)}{(\text{NIR}+0.1)+(\text{SWIR}+0.02)}$	
15	Green atmospherically resistant vegetation index	GARI	$\frac{\text{NIR}-(\text{GREEN}-(\text{BLUE}-\text{RED}))}{\text{NIR}-(\text{GREEN}+(\text{BLUE}-\text{RED}))}$	
16	Green Normalized Difference Vegetation Index	GNDVI	$\frac{\text{NIR}-[540{:}570]}{\text{NIR}+[540{:}570]}$	
17	Green Optimized Soil Adjusted Vegetation Index	GOSAVI	$\frac{\text{NIR}-G}{\text{NIR}+G+Y}$	
18	Green Soil Adjusted Vegetation Index	GSAVI	$\frac{\text{NIR}-G}{\text{NIR}+G+L}\left(1+L\right)$	
19	Ideal vegetation index	IVI	$\frac{\text{NIR}-b}{a\cdot\text{RED}}$	
20	Infrared percentage vegetation index	IPVI	$\frac{\text{NIR}}{\frac{\text{NIR}+\text{RED}}{2}}\left(\text{NDVI}+1\right)$	
21	Mid-infrared vegetation index	MVI	$\frac{[700{:}1300]}{[1570{:}1780]}$	
22	Misra Green Vegetation Index	MGVI	$-0.386[500{:}600] - 0.530[600{:}700] + 0.535[700{:}800] + 0.532[800{:}1100]$	
23	Misra Yellow Vegetation Index	MYVI	$0.723[500{:}600] - 0.597[600{:}700] + 0.206[700{:}800] - 0.278[800{:}1100]$	
24	Modified Normalized Difference Vegetation Index RVI	MRVI	$\frac{\text{RVI}-1}{\text{RVI}+1}$	
25	Modified Soil Adjusted Vegetation Index	MSAVI	$\frac{2\text{NIR}+1-\sqrt{(2\text{NIR}+1)^2-8(\text{NIR}-\text{RED})}}{2}$	
26	Modified Soil Adjusted Vegetation Index hyper	MSAVIhyper	$(0.5)\left((2800\text{nm}+1)-\sqrt{(2800\text{nm}+1)^2-8(800\text{nm}-670\text{nm})}\right)$	
27	Modified Triangular Vegetation Index 1	MTVI1	$1.2\left(1.2\left(800\text{nm}-550\text{nm}\right)-2.5\left(670\text{nm}-550\text{nm}\right)\right)$	
28	Modified Triangular Vegetation Index 2	MTVI2	$\left(1.5\frac{1.2(2800\text{nm}-550\text{nm})-2.5(670\text{nm}-550\text{nm})}{\sqrt{(2800\text{nm}+1)^2-(6800\text{nm}-5\sqrt{670\text{nm}})-0.5}}\right)$	
29	Nonlinear vegetation index	NLI	$\frac{[780{:}1400]^2-\text{RED}}{[780{:}1400]^2+\text{RED}}$	
30	Normalized Difference MIR/NIR Normalized Difference Vegetation Index (in case of strong atmospheric disturbances)	NDVI	$\frac{\text{MIR}-\text{NIR}}{\text{MIR}+\text{NIR}}$	MIR= [1300:3000],NIR= [800;10;10]
31	Normalized Difference NIR/Blue Blue-normalized difference vegetation index	BNDVI	$\frac{\text{NIR}-\text{BLUE}}{\text{NIR}+\text{BLUE}}$	
32	Normalized Difference NIR/MIR Modified Normalized Difference Vegetation Index	MNDVI	$\frac{\text{NIR}-\text{MIR}}{\text{NIR}+\text{MIR}}$	
33	Normalized Difference NIR/Red Normalized Difference Vegetation Index, Calibrated NDVI - CDVI	NDVI	$\frac{\text{NIR}-\text{RED}}{\text{NIR}+\text{RED}}$	RED= [670;50;30],NIR= [800;10;10]
34	Normalized Difference Vegetation Index 690-710	NDVI690-710	$\frac{\text{NIR}-[690{:}710]}{\text{NIR}+[690{:}710]}$	
35	Normalized Difference Vegetation Index C	NDVIc	$\frac{\text{NIR}-\text{RED}}{\text{NIR}+\text{RED}}\left(1-\frac{\text{SWIR}-\text{SWIR}_{\min}}{\text{SWIR}_{\max}-\text{SWIR}_{\min}}\right)$	
36	Optimized Soil Adjusted Vegetation Index	OSAVI	$(1+Y)\frac{800\text{nm}-670\text{nm}}{800\text{nm}+670\text{nm}+Y}$	Y=0.16
37	Optimized Soil Adjusted Vegetation Index 1510	OSAVI1510	$\frac{(1+L)(800\text{nm}-1510\text{nm})}{800\text{nm}+1510\text{nm}+L}$	
38	Optimized Soil Adjusted Vegetation Index 2	OSAVI2	$(1+0.16)\frac{750\text{nm}-705\text{nm}}{750\text{nm}+705\text{nm}+0.16}$	
39	Optimized vegetation normalized index	OVNI		
40	Perpendicular Vegetation Index	PVI	$\left(\frac{1}{\sqrt{a^2+1}}\right)\left(\text{NIR}-a\text{r}-b\right)$	
41	Red-Edge Stress Vegetation Index	RVSI	$\frac{718\text{nm}+748\text{nm}}{2} - 733\text{nm}$	

42	Renormalized Difference Vegetation Index	RDVI	$\frac{800nm-670nm}{\sqrt{800nm+670nm}}$	
43	Simple Ratio 800/670 Ratio Vegetation Index	RVI	$\frac{800nm}{670nm}$	
44	Simple Ratio 860/1240	SRWI	$\frac{860nm}{1240nm}$	
45	Simple Ratio NIR/G Green Ratio Vegetation Index	GRVI	$\frac{NIR}{G}$	
46	Simple Ratio NIR/RED Difference Vegetation Index, Vegetation Index Number (VIN)	DVI	$\frac{NIR}{RED}$	
47	Simple Ratio Red/NIR Ratio Vegetation-Index	SRRed/NIR	$\frac{RED}{NIR}$	
48	Single Band 705	SB705	$705nm$	
49	Single Band 735	SB735	$735nm$	
50	Soil Adjusted Vegetation Index	SAVI	$\frac{800nm-670nm}{800nm+670nm+L}(1+L)$	L = 0,5

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