

Index	Name	Meaning	Type
0	label	Label for classification e.g. of fire and not fire, defined for frame i^{th} , label(i)	nominal
1	iVecCount	Amount of vector found in frame i^{th} , iVecCount(i)	int
2	dRadius	Average radius (length/velocity) of vectors found in frame i^{th} , denoted as dRadius(i)	double
3	dCohIndex	Motion coherence index found in frame i^{th} , dCohIndex(i)	double
4	vardRadius	Absolute difference of two average radius in two consecutive frames, calculated by $\text{abs}(\text{dRadius}(i^{th}-1) - \text{dRadius}(i^{th}))$	double
5	vardCohIndex	Absolute difference of two coherence indices in two consecutive frames, calculated by $\text{abs}(\text{dCohIndex}(i^{th}-1) - \text{dCohIndex}(i^{th}))$	double
6	d_varRad	<p>The standardization of vector radius ($Z_r(i^{th})$)</p> $Z = \frac{x - \mu}{\sigma}$ <p>is calculated by $\text{d_varRad}(i^{th}) = (\text{dRadius}(i^{th}) - \text{d_AvgRadius}_N) / \text{d_StdRad}_N$, where the d_AvgRadius_N was calculated from the prior 30 frames ($N=30$) found before 360 recorded frames in a series of dataset, and d_StdRad_N is standard deviation (σ) of radius of samples ($N = 30$ samples)</p> $\sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - \mu)^2}, \text{ where } \mu = \frac{1}{N} \sum_{i=1}^N x_i.$	double

7	d_varCoh	<p>The standardization of motion coherence ($Z_c(i^{th})$)</p> $Z = \frac{x - \mu}{\sigma}$ <p>is calculated by $d_varCoh(i^{th}) = (dCohIndex(i^{th}) - d_AvgCoh_N) / d_StdCoh_N$, where the d_AvgCoh_N was calculated from the prior 30 frames ($N=30$) found before 360 recorded frames in a series of dataset, and d_StdCoh_N is standard deviation (σ) of motion coherence index of samples ($N = 30$ samples)</p> $\sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - \mu)^2}, \text{ where } \mu = \frac{1}{N} \sum_{i=1}^N x_i.$	double
8	dCos	Average of Cosine value of vectors found in frame i^{th}	double
9	dSin	Average of Sine value of vectors found in frame i^{th}	double
10	ia5Radius_v0	1 st highest radius value frequently max(ROI(Vr)) found in frame i^{th}	int
11	ia5Radius_v1	2 nd highest radius value frequently max(ROI(Vr)) found in frame i^{th}	int
12	ia5Radius_v2	3 rd highest radius value frequently max(ROI(Vr)) found in frame i^{th}	int
13	ia5Radius_v3	4 th highest radius value frequently max(ROI(Vr)) found in frame i^{th}	int
14	ia5Radius_v4	5 th highest radius value frequently max(ROI(Vr)) found in frame i^{th}	int
15	ia5Radius_f0	frequency of 1 st high radius value frequently mode(ROI(Vr)) found in frame i^{th}	int
16	ia5Radius_f1	frequency of 2 nd high radius value frequently mode(ROI(Vr)) found in frame i^{th}	int

17	ia5Radius_f2	frequency of 3 rd high radius value frequently mode(ROI(Vr)) found in frame i^{th}	int
18	ia5Radius_f3	frequency of 4 th high radius value frequently mode(ROI(Vr)) found in frame i^{th}	int
19	ia5Radius_f4	frequency of 5 th high radius value frequently mode(ROI(Vr)) found in frame i^{th}	int
20	da5Radius_%0	% frequency of 1 st radius value in top 5 found in frame i^{th}	double
21	da5Radius_%1	% frequency of 2 nd radius value in top 5 found in frame i^{th}	double
22	da5Radius_%2	% frequency of 3 rd radius value in top 5 found in frame i^{th}	double
23	da5Radius_%3	% frequency of 4 th radius value in top 5 found in frame i^{th}	double
24	da5Radius_%4	% frequency of 5 th radius value in top 5, where sum of da5Radius_%j, $j = 0, 1, 2, 3, 4$, is equal to 100, found in frame i^{th}	double
25	da5Degree_v0	1 st high degree of angle of vectors, frequently max(ROI(Va)) found in frame i^{th}	double
26	da5Degree_v1	2 nd high degree of angle of vectors, frequently max(ROI(Va)) found in frame i^{th}	double
27	da5Degree_v2	3 rd high degree of angle of vectors, frequently max(ROI(Va)) found in frame i^{th}	double
28	da5Degree_v3	4 th high degree of angle of vectors, frequently max(ROI(Va)) found in frame i^{th}	double
29	da5Degree_v4	5 th high degree of angle of vectors, frequently max(ROI(Va)) found in frame i^{th}	double
30	da5Degree_f0	frequency of 1 st high degree value mode(ROI(Va)) found in frame i^{th}	double

31	da5Degree_f1	frequency of 2 nd high degree value mode(ROI(Va)) found in frame i^{th}	double
32	da5Degree_f2	frequency of 3 rd high degree value mode(ROI(Va)) found in frame i^{th}	double
33	da5Degree_f3	frequency of 4 th high degree value mode(ROI(Va)) found in frame i^{th}	double
34	da5Degree_f4	frequency of 5 th high degree value mode(ROI(Va)) found in frame i^{th}	double
35	da5Degree_%0	% frequency of 1 st high degree in top 5 found in frame i^{th}	double
36	da5Degree_%1	% frequency of 2 nd high degree in top 5 found in frame i^{th}	double
37	da5Degree_%2	% frequency of 3 rd high degree in top 5 found in frame i^{th}	double
38	da5Degree_%3	% frequency of 4 th high degree in top 5 found in frame i^{th}	double
39	da5Degree_%4	% frequency of 5 th high degree in top 5, where sum of da5Degree_% $j, j = 0, 1, 2, 3, 4$, is equal to 100 found in frame i^{th}	double
40	iRGBTotal	Amount of pursued pixels (collected from SBs) found in frame i^{th}	int
41	iRMean	Average of red amount calculated from pursued pixels found in frame i^{th}	int
42	iGMean	Average of green amount calculated from pursued pixels found in frame i^{th}	int
43	iBMean	Average of blue amount calculated from pursued pixels found in frame i^{th}	int
44	d_luminance	Average of luminance $d_luminance = 0.299*iRMean + 0.587*iGMean + 0.114*iBMean$ found in frame i^{th}	double

45	ia5R_v0	1 st high value of red max(ROI(R)) found in frame i^{th}	int
46	ia5R_v1	2 nd high value of red max(ROI(R)) found in frame i^{th}	int
47	ia5R_v2	3 rd high value of red max(ROI(R)) found in frame i^{th}	int
48	ia5R_v3	4 th high value of red max(ROI(R)) found in frame i^{th}	int
49	ia5R_v4	5 th high value of red max(ROI(R)) found in frame i^{th}	int
50	ia5R_f0	frequency of 1 st high value of red mode(ROI(R)) found in frame i^{th}	int
51	ia5R_f1	frequency of 2 nd high value of red mode(ROI(R)) found in frame i^{th}	int
52	ia5R_f2	frequency of 3 rd high value of red mode(ROI(R)) found in frame i^{th}	int
53	ia5R_f3	frequency of 4 th high value of red mode(ROI(R)) found in frame i^{th}	int
54	ia5R_f4	frequency of 5 th high value of red mode(ROI(R)) found in frame i^{th}	int
55	ia5R_%0	% frequency of 1 st high value of red found in frame i^{th}	int
56	ia5R_%1	% frequency of 2 nd high value of red found in frame i^{th}	int
57	ia5R_%2	% frequency of 3 rd high value of red found in frame i^{th}	int
58	ia5R_%3	% frequency of 4 th high value of red found in frame i^{th}	int
59	ia5R_%4	% frequency of 5 th high value of red found in frame i^{th}	int

60	ia5G_v0	1 st high value of green max(ROI(G)) found in frame i^{th}	int
61	ia5G_v1	2 nd high value of green max(ROI(G)) found in frame i^{th}	int
62	ia5G_v2	3 rd high value of green max(ROI(G)) found in frame i^{th}	int
63	ia5G_v3	4 th high value of green max(ROI(G)) found in frame i^{th}	int
64	ia5G_v4	5 th high value of green max(ROI(G)) found in frame i^{th}	int
65	ia5G_f0	frequency of 1 st high value of green mode(ROI(G)) found in frame i^{th}	int
66	ia5G_f1	frequency of 2 nd high value of green mode(ROI(G)) found in frame i^{th}	int
67	ia5G_f2	frequency of 3 rd high value of green mode(ROI(G)) found in frame i^{th}	int
68	ia5G_f3	frequency of 4 th high value of green mode(ROI(G)) found in frame i^{th}	int
69	ia5G_f4	frequency of 5 th high value of green mode(ROI(G)) found in frame i^{th}	int
70	ia5G_%0	% frequency 1 st high value of green found in frame i^{th}	int
71	ia5G_%1	% frequency of 2 nd high value of green found in frame i^{th}	int
72	ia5G_%2	% frequency of 3 rd high value of green found in frame i^{th}	int
73	ia5G_%3	% frequency of 4 th high value of green found in frame i^{th}	int
74	ia5G_%4	% frequency of 5 th high value of green found in frame i^{th}	int

75	ia5B_v0	1 st high value of blue max(ROI(B)) found in frame i^{th}	int
76	ia5B_v1	2 nd high value of blue max(ROI(B)) found in frame i^{th}	int
77	ia5B_v2	3 rd high value of blue max(ROI(B)) found in frame i^{th}	int
78	ia5B_v3	4 th high value of blue max(ROI(B)) found in frame i^{th}	int
79	ia5B_v4	5 th high value of blue max(ROI(B)) found in frame i^{th}	int
80	ia5B_f0	frequency of 1 st high value of blue mode(ROI(B)) found in frame i^{th}	int
81	ia5B_f1	frequency of 2 nd high value of blue mode(ROI(B)) found in frame i^{th}	int
82	ia5B_f2	frequency of 3 rd high value of blue mode(ROI(B)) found in frame i^{th}	int
83	ia5B_f3	frequency of 4 th high value of blue mode(ROI(B)) found in frame i^{th}	int
84	ia5B_f4	frequency of 5 th high value of blue mode(ROI(B)) found in frame i^{th}	int
85	ia5B_%0	% frequency of 1 st high value of blue found in frame i^{th}	int
86	ia5B_%1	% frequency of 2 nd high value of blue found in frame i^{th}	int
87	ia5B_%2	% frequency of 3 rd high value of blue found in frame i^{th}	int
88	ia5B_%3	% frequency of 4 th high value of blue found in frame i^{th}	int
89	ia5B_%4	% frequency of 5 th high value of blue found in frame i^{th}	int