Index	Name	Meaning	Туре
0	label	Label for classification e.g. of fire and not fire, defined for frame ith, label(i)	nominal
1	iVecCount	Amount of vector found in frame ith, iVecCount(i)	int
2	dRadius	Average radius (length/velocity) of vectors found in frame ith, denoted as dRadius(i)	double
3	dCohIndex	Motion coherence index found in frame ith, dCohlndex(i)	double
4	vardRadius	Absolute difference of two average radius in two consecutive frames, calculated by abs(dRadius(ith-1) - dRadius(ith)) Absolute difference of two coherence indices in two consecutive frames,	double
5	vardCohIndex	calculated by abs(dCohlndex(ith-1) - dCohlndex(ith))	double
6	d_varRad	The standardization of vector radius (Zr(ith)) is calculated by d_varRad(ith) = (dRadius(ith) - d_AvgRadiusN) / d_StdRadN, where the d_AvgRadiusN was calculated from the prior 30 frames (N=30) found before 360 recorded frames in a series of dataset, and d_StdRadN is standard deviation (σ) of radius of samples (N = 30 samples)	double
7	d_varCoh	The standardization of motion coherence (Zc(ith)) is calculated by d_varCoh(ith) = (dCohIndex(ith) - d_AvgCohN) / d_StdCohN, where the d_AvgCohN was calculated from the prior 30 frames (N=30) found before 360 recorded frames in a series of dataset, and d_StdCohN is standard deviation (σ) of motion coherence index of samples (N = 30 samples)	double
8	dCos	Average of Cosine value of vectors found in frame ith	double
9	dSin	Average of Sine value of vectors found in frame ith	double
10	ia5Radius_v0	1st highest radius value frequently max(TOI(Vr)) found in frame ith	int
11	ia5Radius_v1	2nd highest radius value frequently max(TOI(Vr)) found in frame ith	int
12	ia5Radius v2	3rd highest radius value frequently max(TOI(Vr)) found in frame ith	int
13	ia5Radius v3	4th highest radius value frequently max(TOI(Vr)) found in frame ith	int
14	ia5Radius v4	5th highest radius value frequently max(TOI(Vr)) found in frame ith	int
15	ia5Radius_f0	frequency of 1st high radius value frequently mode(TOI(Vr)) found in frame ith	int
16	ia5Radius_f1	frequency of 2nd high radius value frequently mode(TOI(Vr)) found in frame ith	
17	ia5Radius_f2	frequency of 3rd high radius value frequently mode(TOI(Vr)) found in frame ith	int
18	ia5Radius_f3	frequency of 4th high radius value frequently mode(TOI(Vr)) found in frame ith	int
19	ia5Radius_f4	frequency of 5th high radius value frequently mode(TOI(Vr)) found in frame ith	int
20	da5Radius_%0	% frequency of 1st radius value in top 5 found in frame ith	double
21	da5Radius_%1	% frequency of 2nd radius value in top 5 found in frame ith	double

22	da5Radius_%2	% frequency of 3rd radius value in top 5 found in frame ith	double
23	da5Radius_%3	% frequency of 4th radius value in top 5 found in frame ith	double
		% frequency of 5th radius value in top 5, where sum of da5Radius_%j, j = 0, 1,	
24	da5Radius_%4	2, 3, 4, is equal to 100, found in frame ith	double
25	da5Degree_v0	1st high degree of angle of vectors, frequently max(TOI(Va)) found in frame ith	int
26	da5Degree_v1	2nd high degree of angle of vectors, frequently max(TOI(Va)) found in frame ith	int
	-		
27	da5Degree_v2	3rd high degree of angle of vectors, frequently max(TOI(Va)) found in frame ith	int
28	da5Degree_v3	4th high degree of angle of vectors, frequently max(TOI(Va)) found in frame ith	int
29	da5Degree_v4	5th high degree of angle of vectors, frequently max(TOI(Va)) found in frame ith	int
30	da5Degree_f0	frequency of 1st high degree value mode(TOI(Va)) found in frame ith	int
31	da5Degree_f1	frequency of 2nd high degree value mode(TOI(Va)) found in frame ith	int
32	da5Degree_f2	frequency of 3rd high degree value mode(TOI(Va)) found in frame ith	int
33	da5Degree_f3	frequency of 4th high degree value mode(TOI(Va)) found in frame ith	int
34	da5Degree_f4	frequency of 5th high degree value mode(TOI(Va)) found in frame ith	int
35	da5Degree_%0	% frequency of 1st high degree in top 5 found in frame ith	double
36	da5Degree_%1	% frequency of 2nd high degree in top 5 found in frame ith	double
37	da5Degree_%2	% frequency of 3rd high degree in top 5 found in frame ith	double
38	da5Degree_%3	% frequency of 4th high degree in top 5 found in frame ith	double
		% frequency of 5th high degree in top 5, where sum of da5Degree_% j, j = 0, 1,	
39	da5Degree_%4	2, 3, 4, is equal to 100 found in frame ith	double
40	iRGBTotal	Amount of pursued pixels (collected from SBs) found in frame ith	int
41	iRMean	Average of red amount calculated from pursued pixels found in frame ith	int
42	iGMean	Average of green amount calculated from pursued pixels found in frame ith	int
43	iBMean	Average of blue amount calculated from pursued pixels found in frame ith	int
		Average of luminance d_luminance = 0.299*iRMean + 0.587*iGMean +	
44	d_luminance	0.114*iBMean found in frame ith	int
45	ia5R_v0	1st high value of red max(TOI(R)) found in frame ith	int
46	ia5R_v1	2nd high value of red max(TOI(R)) found in frame ith	int
47	ia5R_v2	3rd high value of red max(TOI(R)) found in frame ith	int
48	ia5R_v3	4th high value of red max(TOI(R)) found in frame ith	int
49	ia5R_v4	5th high value of red max(TOI(R)) found in frame ith	int
50	ia5R_f0	frequency of 1st high value of red mode(TOI(R)) found in frame ith	int
51	ia5R_f1	frequency of 2nd high value of red mode(TOI(R)) found in frame ith	int
52	ia5R_f2	frequency of 3rd high value of red mode(TOI(R)) found in frame ith	int
53	ia5R_f3	frequency of 4th high value of red mode(TOI(R)) found in frame ith	int

55 ia5R, %0 % frequency of 1st high value of red found in frame ith int int 57 ia5R, %2 % frequency of 2nd high value of red found in frame ith int int 58 ia5R, %3 % frequency of 3rd high value of red found in frame ith int int 58 ia5R, %4 % frequency of 4th high value of red found in frame ith int int int 59 ia5R, %4 % frequency of 5th high value of red found in frame ith int	54	ia5R_f4	frequency of 5th high value of red mode(TOI(R)) found in frame ith	int
566 ia5R, %1 % frequency of 2nd high value of red found in frame ith int	55			int
S7 Ia5R, %2 % frequency of 3rd high value of red found in frame ith int int 58 Ia5R, %3 % frequency of 3th high value of red found in frame ith int int int S9 Ia5R, %4 % frequency of 5th high value of red found in frame ith int	56			int
59 Ia5R %4	57	ia5R_%2		int
60 la5G_v0 1st high value of green max(TOI(G)) found in frame ith int 61 la5G_v1 2nd high value of green max(TOI(G)) found in frame ith int 62 la5G_v1 3rd high value of green max(TOI(G)) found in frame ith int 63 la5G_v3 4th high value of green max(TOI(G)) found in frame ith int 63 la5G_v3 4th high value of green max(TOI(G)) found in frame ith int 65 la5G_v4 5th high value of green max(TOI(G)) found in frame ith int 65 la5G_v4 5th high value of green max(TOI(G)) found in frame ith int 66 la5G_v1 frequency of 1st high value of green mode(TOI(G)) found in frame ith int 66 la5G_v1 frequency of 1st high value of green mode(TOI(G)) found in frame ith int 67 la5G_v1 frequency of 3rd high value of green mode(TOI(G)) found in frame ith int 68 la5G_v1 frequency of 3rd high value of green mode(TOI(G)) found in frame ith int 69 la5G_v1 frequency of 5th high value of green mode(TOI(G)) found in frame ith int 70 la5G_w0 % frequency of 3rd high value of green found in frame ith int 71 la5G_w1 % frequency of 3rd high value of green found in frame ith int 72 la5G_w2 % frequency of 3rd high value of green found in frame ith int 73 la5G_w3 % frequency of 3rd high value of green found in frame ith int 74 la5G_w4 % frequency of 5th high value of green found in frame ith int 75 la5B_v0 1st high value of blue max(TOI(B)) found in frame ith int 76 la5B_v1 2nd high value of blue max(TOI(B)) found in frame ith int 77 la5B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 18B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 18B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 18B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 18B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 18B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 18B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 18B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 18B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 18B_v2 3rd high value of blue max(TOI(B)) fo	58	ia5R_%3	% frequency of 4th high value of red found in frame ith	int
61 ia5G_v1 2nd high value of green max(TOI(G)) found in frame ith int 62 ia5G_v2 3rd high value of green max(TOI(G)) found in frame ith int 63 ia5G_v3 4th high value of green max(TOI(G)) found in frame ith int 64 ia5G_v4 5th high value of green max(TOI(G)) found in frame ith int 65 ia5G_f0 frequency of 1st high value of green mode(TOI(G)) found in frame ith int 66 ia5G_f1 frequency of 2rd high value of green mode(TOI(G)) found in frame ith int 67 ia5G_f2 frequency of 3rd high value of green mode(TOI(G)) found in frame ith int 68 ia5G_f3 frequency of 3rd high value of green mode(TOI(G)) found in frame ith int 69 ia5G_f4 frequency of 4th high value of green mode(TOI(G)) found in frame ith int 69 ia5G_f4 frequency of 5th high value of green found in frame ith int 70 ia5G_w0 % frequency of 2rd high value of green found in frame ith int 71 ia5G_w1 % frequency of 2rd high value of green found in frame ith int 72 ia5G_w2 % frequency of 3rd high value of green found in frame ith int 73 ia5G_w3 % frequency of 4th high value of green found in frame ith int 74 ia5G_w4 % frequency of 4th high value of green found in frame ith int 75 ia5B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 76 ia5B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 77 ia5B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 18 ia5B_v2 3rd high value of blue max(TOI(B)) found in frame ith int 18 ia5B_v3 4th high value of blue max(TOI(B)) found in frame ith int 18 ia5B_v4 5th high value of blue max(TOI(B)) found in frame ith int 18 ia5B_v4 5th high value of blue max(TOI(B)) found in frame ith int 18 ia5B_v4 5th high value of blue max(TOI(B)) found in frame ith int 18 ia5B_v4 5th high value of blue max(TOI(B)) found in frame ith int 18 ia5B_v4 5th high value of blue max(TOI(B)) found in frame ith int 18 ia5B_v4 5th high value of blue max(TOI(B)) found in frame ith int 18 ia5B_v4 5th high value of blue mode(TOI(B)) found in frame ith 18 int 18 ia5B_v4 5th high value of blue mode(TOI(B)) found in frame ith 18 int 18 ia	59	ia5R_%4	% frequency of 5th high value of red found in frame ith	int
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64 ia5G_v4 5th high value of green max(TOI(G)) found in frame ith int 65 ia5G_f0 frequency of 1st high value of green mode(TOI(G)) found in frame ith int int 66 ia5G_f1 frequency of 2nd high value of green mode(TOI(G)) found in frame ith int 67 ia5G_f2 frequency of 3rd high value of green mode(TOI(G)) found in frame ith int 68 ia5G_f3 frequency of 4th high value of green mode(TOI(G)) found in frame ith int int 69 ia5G_f4 frequency of 5th high value of green mode(TOI(G)) found in frame ith int int ia5G_w0 % frequency of 5th high value of green found in frame ith int int int ia5G_w1 % frequency of 2nd high value of green found in frame ith int int int ia5G_w3 % frequency of 3rd high value of green found in frame ith int int int ia5G_w3 % frequency of 3rd high value of green found in frame ith int int ia5G_w3 % frequency of 3rd high value of green found in frame ith int int ia5G_w4 % frequency of 5th high value of green found in frame ith int int ia5G_w4 % frequency of 5th high value of green found in frame ith int int int ia5B_v0 1st high value of blue max(TOI(B)) found in frame ith int in	62	ia5G_v2	3rd high value of green max(TOI(G)) found in frame ith	int
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66 ia5G_f1 frequency of 2nd high value of green mode(TOI(G)) found in frame ith int int ia5G_f2 frequency of 3rd high value of green mode(TOI(G)) found in frame ith int int int int ia5G_f2 frequency of 4th high value of green mode(TOI(G)) found in frame ith int int int int ia5G_f4 frequency of 5th high value of green mode(TOI(G)) found in frame ith int int ia5G_60 % frequency 1st high value of green found in frame ith int int ia5G_60 % frequency of 2nd high value of green found in frame ith int	64	ia5G_v4	5th high value of green max(TOI(G)) found in frame ith	int
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68 ia50_f3 frequency of 4th high value of green mode(TOI(G)) found in frame ith int 69 ia50_f4 frequency of 5th high value of green mode(TOI(G)) found in frame ith int 70 ia50_%0 % frequency 1st high value of green found in frame ith int 71 ia50_%1 % frequency of 2nd high value of green found in frame ith int 72 ia50_%2 % frequency of 3rd high value of green found in frame ith int 73 ia50_%3 % frequency of 4th high value of green found in frame ith int 74 ia50_%4 % frequency of 5th high value of green found in frame ith int 75 ia50_w2 1st high value of blue max(TOI(B)) found in frame ith int 76 ia50_w2 1st high value of blue max(TOI(B)) found in frame ith int 77 ia50_w2 1st high value of blue max(TOI(B)) found in frame ith int 78 ia50_w2 1st high value of blue max(TOI(B)) found in frame ith int 78 ia50_w2 1st high value of blue max(TOI(B)) found in frame ith int 80 ia50_w4 5th high value of blue max(TOI(B)) found in frame ith int 1st ia50_w4 5th high value of blue max(TOI(B)) found in frame ith int 1st ia50_w4 5th high value of blue max(TOI(B)) found in frame ith int 1st ia50_w4 5th high value of blue mode(TOI(B)) found in frame ith int 1st ia50_w5 1st frequency of 1st high value of blue mode(TOI(B)) found in frame ith int 1st ia50_w5 1st frequency of 1st high value of blue mode(TOI(B)) found in frame ith 1st int 1st ia50_w5 1st frequency of 1st high value of blue mode(TOI(B)) found in frame ith 1st int 1st ia50_w5 1st into 1st into 1st into 1st ia50_w5 1st into 1				int
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