

List of radiomic features

No.	Family	Image_Biomarker
1	Morphology	Volume (mesh-based)
2	Morphology	Volume (counting)
3	Morphology	Surface area
4	Morphology	Surface to volume ratio
5	Morphology	Compactness 1
6	Morphology	Compactness 2
7	Morphology	Spherical disproportion
8	Morphology	Sphericity
9	Morphology	Asphericity
10	Morphology	Centre of mass shift
11	Morphology	Maximum 3D diameter
12	Morphology	Major axis length
13	Morphology	Minor axis length
14	Morphology	Least axis length
15	Morphology	Elongation
16	Morphology	Flatness
17	Morphology	Volume density (AABB)
18	Morphology	Area density (AABB)
19	Morphology	Volume density (OMBB)
20	Morphology	Area density (OMBB)
21	Morphology	Volume density (AEE)
22	Morphology	Area density (AEE)
23	Morphology	Volume density (MVEE)
24	Morphology	Area density (MVEE)
25	Morphology	Volume density (convex hull)
26	Morphology	Area density (convex hull)
27	Morphology	Integrated intensity
28	Morphology	Moran's I index
29	Morphology	Geary's C measure
30	Local intensity	Local intensity peak
31	Local intensity	Global intensity peak
32	Statistics	Mean
33	Statistics	Variance
34	Statistics	Skewness
35	Statistics	(Excess) kurtosis
36	Statistics	Median
37	Statistics	Minimum
38	Statistics	10th percentile
39	Statistics	90th percentile
40	Statistics	Maximum

41	Statistics	Interquartile range
42	Statistics	Range
43	Statistics	Mean absolute deviation
44	Statistics	Robust mean absolute deviation
45	Statistics	Median absolute deviation
46	Statistics	Coefficient of variation
47	Statistics	Quartile coefficient of dispersion
48	Statistics	Energy
49	Statistics	Root mean square
50	Intensity histogram	Mean
51	Intensity histogram	Variance
52	Intensity histogram	Skewness
53	Intensity histogram	Kurtosis
54	Intensity histogram	Median
55	Intensity histogram	Minimum
56	Intensity histogram	10th percentile
57	Intensity histogram	90th percentile
58	Intensity histogram	Maximum
59	Intensity histogram	Mode
60	Intensity histogram	Interquartile range
61	Intensity histogram	Range
62	Intensity histogram	Mean absolute deviation
63	Intensity histogram	Robust mean absolute deviation
64	Intensity histogram	Median absolute deviation
65	Intensity histogram	Coefficient of variation
66	Intensity histogram	Quartile coefficient of dispersion
67	Intensity histogram	Entropy
68	Intensity histogram	Uniformity
69	Intensity histogram	Maximum histogram gradient
70	Intensity histogram	Maximum gradient grey level
71	Intensity histogram	Minimum histogram gradient
72	Intensity histogram	Minimum gradient grey level
73	Intensity volume histogram	Volume fraction at 10% intensity
74	Intensity volume histogram	Volume fraction at 90% intensity
75	Intensity volume histogram	Intensity at 10% volume
76	Intensity volume histogram	Intensity at 90% volume
77	Intensity volume histogram	Volume fraction difference between 10% and 90% intensity
78	Intensity volume histogram	Intensity difference between 10% and 90% volume
79	Intensity volume histogram	Area under the IVH curve
80	Co-occurrence matrix (2D, averaged)	Joint maximum
81	Co-occurrence matrix (2D, averaged)	Joint average
82	Co-occurrence matrix (2D, averaged)	Joint variance

83	Co-occurrence matrix (2D, averaged)	Joint entropy
84	Co-occurrence matrix (2D, averaged)	Difference average
85	Co-occurrence matrix (2D, averaged)	Difference variance
86	Co-occurrence matrix (2D, averaged)	Difference entropy
87	Co-occurrence matrix (2D, averaged)	Sum average
88	Co-occurrence matrix (2D, averaged)	Sum variance
89	Co-occurrence matrix (2D, averaged)	Sum entropy
90	Co-occurrence matrix (2D, averaged)	Angular second moment
91	Co-occurrence matrix (2D, averaged)	Contrast
92	Co-occurrence matrix (2D, averaged)	Dissimilarity
93	Co-occurrence matrix (2D, averaged)	Inverse difference
94	Co-occurrence matrix (2D, averaged)	Inverse difference normalised
95	Co-occurrence matrix (2D, averaged)	Inverse difference moment
96	Co-occurrence matrix (2D, averaged)	Inverse difference moment normalised
97	Co-occurrence matrix (2D, averaged)	Inverse variance
98	Co-occurrence matrix (2D, averaged)	Correlation
99	Co-occurrence matrix (2D, averaged)	Autocorrelation
100	Co-occurrence matrix (2D, averaged)	Cluster tendency
101	Co-occurrence matrix (2D, averaged)	Cluster shade
102	Co-occurrence matrix (2D, averaged)	Cluster prominence
103	Co-occurrence matrix (2D, averaged)	Information correlation 1
104	Co-occurrence matrix (2D, averaged)	Information correlation 2
105	Co-occurrence matrix (2D, slice-merged)	Joint maximum
106	Co-occurrence matrix (2D, slice-merged)	Joint average
107	Co-occurrence matrix (2D, slice-merged)	Joint variance
108	Co-occurrence matrix (2D, slice-merged)	Joint entropy
109	Co-occurrence matrix (2D, slice-merged)	Difference average
110	Co-occurrence matrix (2D, slice-merged)	Difference variance
111	Co-occurrence matrix (2D, slice-merged)	Difference entropy
112	Co-occurrence matrix (2D, slice-merged)	Sum average
113	Co-occurrence matrix (2D, slice-merged)	Sum variance
114	Co-occurrence matrix (2D, slice-merged)	Sum entropy
115	Co-occurrence matrix (2D, slice-merged)	Angular second moment
116	Co-occurrence matrix (2D, slice-merged)	Contrast
117	Co-occurrence matrix (2D, slice-merged)	Dissimilarity
118	Co-occurrence matrix (2D, slice-merged)	Inverse difference
119	Co-occurrence matrix (2D, slice-merged)	Inverse difference normalised
120	Co-occurrence matrix (2D, slice-merged)	Inverse difference moment
121	Co-occurrence matrix (2D, slice-merged)	Inverse difference moment normalised
122	Co-occurrence matrix (2D, slice-merged)	Inverse variance
123	Co-occurrence matrix (2D, slice-merged)	Correlation
124	Co-occurrence matrix (2D, slice-merged)	Autocorrelation
125	Co-occurrence matrix (2D, slice-merged)	Cluster tendency

126	Co-occurrence matrix (2D, slice-merged)	Cluster shade
127	Co-occurrence matrix (2D, slice-merged)	Cluster prominence
128	Co-occurrence matrix (2D, slice-merged)	Information correlation 1
129	Co-occurrence matrix (2D, slice-merged)	Information correlation 2
130	Co-occurrence matrix (2.5D, direction-merged)	Joint maximum
131	Co-occurrence matrix (2.5D, direction-merged)	Joint average
132	Co-occurrence matrix (2.5D, direction-merged)	Joint variance
133	Co-occurrence matrix (2.5D, direction-merged)	Joint entropy
134	Co-occurrence matrix (2.5D, direction-merged)	Difference average
135	Co-occurrence matrix (2.5D, direction-merged)	Difference variance
136	Co-occurrence matrix (2.5D, direction-merged)	Difference entropy
137	Co-occurrence matrix (2.5D, direction-merged)	Sum average
138	Co-occurrence matrix (2.5D, direction-merged)	Sum variance
139	Co-occurrence matrix (2.5D, direction-merged)	Sum entropy
140	Co-occurrence matrix (2.5D, direction-merged)	Angular second moment
141	Co-occurrence matrix (2.5D, direction-merged)	Contrast
142	Co-occurrence matrix (2.5D, direction-merged)	Dissimilarity
143	Co-occurrence matrix (2.5D, direction-merged)	Inverse difference
144	Co-occurrence matrix (2.5D, direction-merged)	Inverse difference normalised
145	Co-occurrence matrix (2.5D, direction-merged)	Inverse difference moment
146	Co-occurrence matrix (2.5D, direction-merged)	Inverse difference moment normalised
147	Co-occurrence matrix (2.5D, direction-merged)	Inverse variance
148	Co-occurrence matrix (2.5D, direction-merged)	Correlation
149	Co-occurrence matrix (2.5D, direction-merged)	Autocorrelation
150	Co-occurrence matrix (2.5D, direction-merged)	Cluster tendency
151	Co-occurrence matrix (2.5D, direction-merged)	Cluster shade
152	Co-occurrence matrix (2.5D, direction-merged)	Cluster prominence
153	Co-occurrence matrix (2.5D, direction-merged)	Information correlation 1
154	Co-occurrence matrix (2.5D, direction-merged)	Information correlation 2
155	Co-occurrence matrix (2.5D, merged)	Joint maximum
156	Co-occurrence matrix (2.5D, merged)	Joint average
157	Co-occurrence matrix (2.5D, merged)	Joint variance
158	Co-occurrence matrix (2.5D, merged)	Joint entropy
159	Co-occurrence matrix (2.5D, merged)	Difference average
160	Co-occurrence matrix (2.5D, merged)	Difference variance
161	Co-occurrence matrix (2.5D, merged)	Difference entropy
162	Co-occurrence matrix (2.5D, merged)	Sum average
163	Co-occurrence matrix (2.5D, merged)	Sum variance
164	Co-occurrence matrix (2.5D, merged)	Sum entropy
165	Co-occurrence matrix (2.5D, merged)	Angular second moment
166	Co-occurrence matrix (2.5D, merged)	Contrast
167	Co-occurrence matrix (2.5D, merged)	Dissimilarity
168	Co-occurrence matrix (2.5D, merged)	Inverse difference

169	Co-occurrence matrix (2.5D, merged)	Inverse difference normalised
170	Co-occurrence matrix (2.5D, merged)	Inverse difference moment
171	Co-occurrence matrix (2.5D, merged)	Inverse difference moment normalised
172	Co-occurrence matrix (2.5D, merged)	Inverse variance
173	Co-occurrence matrix (2.5D, merged)	Correlation
174	Co-occurrence matrix (2.5D, merged)	Autocorrelation
175	Co-occurrence matrix (2.5D, merged)	Cluster tendency
176	Co-occurrence matrix (2.5D, merged)	Cluster shade
177	Co-occurrence matrix (2.5D, merged)	Cluster prominence
178	Co-occurrence matrix (2.5D, merged)	Information correlation 1
179	Co-occurrence matrix (2.5D, merged)	Information correlation 2
180	Co-occurrence matrix (3D, averaged)	Joint maximum
181	Co-occurrence matrix (3D, averaged)	Joint average
182	Co-occurrence matrix (3D, averaged)	Joint variance
183	Co-occurrence matrix (3D, averaged)	Joint entropy
184	Co-occurrence matrix (3D, averaged)	Difference average
185	Co-occurrence matrix (3D, averaged)	Difference variance
186	Co-occurrence matrix (3D, averaged)	Difference entropy
187	Co-occurrence matrix (3D, averaged)	Sum average
188	Co-occurrence matrix (3D, averaged)	Sum variance
189	Co-occurrence matrix (3D, averaged)	Sum entropy
190	Co-occurrence matrix (3D, averaged)	Angular second moment
191	Co-occurrence matrix (3D, averaged)	Contrast
192	Co-occurrence matrix (3D, averaged)	Dissimilarity
193	Co-occurrence matrix (3D, averaged)	Inverse difference
194	Co-occurrence matrix (3D, averaged)	Inverse difference normalised
195	Co-occurrence matrix (3D, averaged)	Inverse difference moment
196	Co-occurrence matrix (3D, averaged)	Inverse difference moment normalised
197	Co-occurrence matrix (3D, averaged)	Inverse variance
198	Co-occurrence matrix (3D, averaged)	Correlation
199	Co-occurrence matrix (3D, averaged)	Autocorrelation
200	Co-occurrence matrix (3D, averaged)	Cluster tendency
201	Co-occurrence matrix (3D, averaged)	Cluster shade
202	Co-occurrence matrix (3D, averaged)	Cluster prominence
203	Co-occurrence matrix (3D, averaged)	Information correlation 1
204	Co-occurrence matrix (3D, averaged)	Information correlation 2
205	Co-occurrence matrix (3D, merged)	Joint maximum
206	Co-occurrence matrix (3D, merged)	Joint average
207	Co-occurrence matrix (3D, merged)	Joint variance
208	Co-occurrence matrix (3D, merged)	Joint entropy
209	Co-occurrence matrix (3D, merged)	Difference average
210	Co-occurrence matrix (3D, merged)	Difference variance
211	Co-occurrence matrix (3D, merged)	Difference entropy

212	Co-occurrence matrix (3D, merged)	Sum average
213	Co-occurrence matrix (3D, merged)	Sum variance
214	Co-occurrence matrix (3D, merged)	Sum entropy
215	Co-occurrence matrix (3D, merged)	Angular second moment
216	Co-occurrence matrix (3D, merged)	Contrast
217	Co-occurrence matrix (3D, merged)	Dissimilarity
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219	Co-occurrence matrix (3D, merged)	Inverse difference normalised
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221	Co-occurrence matrix (3D, merged)	Inverse difference moment normalised
222	Co-occurrence matrix (3D, merged)	Inverse variance
223	Co-occurrence matrix (3D, merged)	Correlation
224	Co-occurrence matrix (3D, merged)	Autocorrelation
225	Co-occurrence matrix (3D, merged)	Cluster tendency
226	Co-occurrence matrix (3D, merged)	Cluster shade
227	Co-occurrence matrix (3D, merged)	Cluster prominence
228	Co-occurrence matrix (3D, merged)	Information correlation 1
229	Co-occurrence matrix (3D, merged)	Information correlation 2
230	Run length matrix (2D, averaged)	Short runs emphasis
231	Run length matrix (2D, averaged)	Long runs emphasis
232	Run length matrix (2D, averaged)	Low grey level run emphasis
233	Run length matrix (2D, averaged)	High grey level run emphasis
234	Run length matrix (2D, averaged)	Short run low grey level emphasis
235	Run length matrix (2D, averaged)	Short run high grey level emphasis
236	Run length matrix (2D, averaged)	Long run low grey level emphasis
237	Run length matrix (2D, averaged)	Long run high grey level emphasis
238	Run length matrix (2D, averaged)	Grey level non-uniformity
239	Run length matrix (2D, averaged)	Grey level non-uniformity normalised
240	Run length matrix (2D, averaged)	Run length non-uniformity
241	Run length matrix (2D, averaged)	Run length non-uniformity normalised
242	Run length matrix (2D, averaged)	Run percentage
243	Run length matrix (2D, averaged)	Grey level variance
244	Run length matrix (2D, averaged)	Run length variance
245	Run length matrix (2D, averaged)	Run entropy
246	Run length matrix (2D, slice-merged)	Short runs emphasis
247	Run length matrix (2D, slice-merged)	Long runs emphasis
248	Run length matrix (2D, slice-merged)	Low grey level run emphasis
249	Run length matrix (2D, slice-merged)	High grey level run emphasis
250	Run length matrix (2D, slice-merged)	Short run low grey level emphasis
251	Run length matrix (2D, slice-merged)	Short run high grey level emphasis
252	Run length matrix (2D, slice-merged)	Long run low grey level emphasis
253	Run length matrix (2D, slice-merged)	Long run high grey level emphasis
254	Run length matrix (2D, slice-merged)	Grey level non-uniformity

255	Run length matrix (2D, slice-merged)	Grey level non-uniformity normalised
256	Run length matrix (2D, slice-merged)	Run length non-uniformity
257	Run length matrix (2D, slice-merged)	Run length non-uniformity normalised
258	Run length matrix (2D, slice-merged)	Run percentage
259	Run length matrix (2D, slice-merged)	Grey level variance
260	Run length matrix (2D, slice-merged)	Run length variance
261	Run length matrix (2D, slice-merged)	Run entropy
262	Run length matrix (2.5D, direction-merged)	Short runs emphasis
263	Run length matrix (2.5D, direction-merged)	Long runs emphasis
264	Run length matrix (2.5D, direction-merged)	Low grey level run emphasis
265	Run length matrix (2.5D, direction-merged)	High grey level run emphasis
266	Run length matrix (2.5D, direction-merged)	Short run low grey level emphasis
267	Run length matrix (2.5D, direction-merged)	Short run high grey level emphasis
268	Run length matrix (2.5D, direction-merged)	Long run low grey level emphasis
269	Run length matrix (2.5D, direction-merged)	Long run high grey level emphasis
270	Run length matrix (2.5D, direction-merged)	Grey level non-uniformity
271	Run length matrix (2.5D, direction-merged)	Grey level non-uniformity normalised
272	Run length matrix (2.5D, direction-merged)	Run length non-uniformity
273	Run length matrix (2.5D, direction-merged)	Run length non-uniformity normalised
274	Run length matrix (2.5D, direction-merged)	Run percentage
275	Run length matrix (2.5D, direction-merged)	Grey level variance
276	Run length matrix (2.5D, direction-merged)	Run length variance
277	Run length matrix (2.5D, direction-merged)	Run entropy
278	Run length matrix (2.5D, merged)	Short runs emphasis
279	Run length matrix (2.5D, merged)	Long runs emphasis
280	Run length matrix (2.5D, merged)	Low grey level run emphasis
281	Run length matrix (2.5D, merged)	High grey level run emphasis
282	Run length matrix (2.5D, merged)	Short run low grey level emphasis
283	Run length matrix (2.5D, merged)	Short run high grey level emphasis
284	Run length matrix (2.5D, merged)	Long run low grey level emphasis
285	Run length matrix (2.5D, merged)	Long run high grey level emphasis
286	Run length matrix (2.5D, merged)	Grey level non-uniformity
287	Run length matrix (2.5D, merged)	Grey level non-uniformity normalised
288	Run length matrix (2.5D, merged)	Run length non-uniformity
289	Run length matrix (2.5D, merged)	Run length non-uniformity normalised
290	Run length matrix (2.5D, merged)	Run percentage
291	Run length matrix (2.5D, merged)	Grey level variance
292	Run length matrix (2.5D, merged)	Run length variance
293	Run length matrix (2.5D, merged)	Run entropy
294	Run length matrix (3D, averaged)	Short runs emphasis
295	Run length matrix (3D, averaged)	Long runs emphasis
296	Run length matrix (3D, averaged)	Low grey level run emphasis
297	Run length matrix (3D, averaged)	High grey level run emphasis

298	Run length matrix (3D, averaged)	Short run low grey level emphasis
299	Run length matrix (3D, averaged)	Short run high grey level emphasis
300	Run length matrix (3D, averaged)	Long run low grey level emphasis
301	Run length matrix (3D, averaged)	Long run high grey level emphasis
302	Run length matrix (3D, averaged)	Grey level non-uniformity
303	Run length matrix (3D, averaged)	Grey level non-uniformity normalised
304	Run length matrix (3D, averaged)	Run length non-uniformity
305	Run length matrix (3D, averaged)	Run length non-uniformity normalised
306	Run length matrix (3D, averaged)	Run percentage
307	Run length matrix (3D, averaged)	Grey level variance
308	Run length matrix (3D, averaged)	Run length variance
309	Run length matrix (3D, averaged)	Run entropy
310	Run length matrix (3D, merged)	Short runs emphasis
311	Run length matrix (3D, merged)	Long runs emphasis
312	Run length matrix (3D, merged)	Low grey level run emphasis
313	Run length matrix (3D, merged)	High grey level run emphasis
314	Run length matrix (3D, merged)	Short run low grey level emphasis
315	Run length matrix (3D, merged)	Short run high grey level emphasis
316	Run length matrix (3D, merged)	Long run low grey level emphasis
317	Run length matrix (3D, merged)	Long run high grey level emphasis
318	Run length matrix (3D, merged)	Grey level non-uniformity
319	Run length matrix (3D, merged)	Grey level non-uniformity normalised
320	Run length matrix (3D, merged)	Run length non-uniformity
321	Run length matrix (3D, merged)	Run length non-uniformity normalised
322	Run length matrix (3D, merged)	Run percentage
323	Run length matrix (3D, merged)	Grey level variance
324	Run length matrix (3D, merged)	Run length variance
325	Run length matrix (3D, merged)	Run entropy
326	Size zone matrix (2D)	Small zone emphasis
327	Size zone matrix (2D)	Large zone emphasis
328	Size zone matrix (2D)	Low grey level emphasis
329	Size zone matrix (2D)	High grey level emphasis
330	Size zone matrix (2D)	Small zone low grey level emphasis
331	Size zone matrix (2D)	Small zone high grey level emphasis
332	Size zone matrix (2D)	Large zone low grey level emphasis
333	Size zone matrix (2D)	Large zone high grey level emphasis
334	Size zone matrix (2D)	Grey level non-uniformity
335	Size zone matrix (2D)	Grey level non uniformity normalised
336	Size zone matrix (2D)	Zone size non-uniformity
337	Size zone matrix (2D)	Zone size non-uniformity normalised
338	Size zone matrix (2D)	Zone percentage
339	Size zone matrix (2D)	Grey level variance
340	Size zone matrix (2D)	Zone size variance

341	Size zone matrix (2D)	Zone size entropy
342	Size zone matrix (2.5D)	Small zone emphasis
343	Size zone matrix (2.5D)	Large zone emphasis
344	Size zone matrix (2.5D)	Low grey level emphasis
345	Size zone matrix (2.5D)	High grey level emphasis
346	Size zone matrix (2.5D)	Small zone low grey level emphasis
347	Size zone matrix (2.5D)	Small zone high grey level emphasis
348	Size zone matrix (2.5D)	Large zone low grey level emphasis
349	Size zone matrix (2.5D)	Large zone high grey level emphasis
350	Size zone matrix (2.5D)	Grey level non-uniformity
351	Size zone matrix (2.5D)	Grey level non uniformity normalised
352	Size zone matrix (2.5D)	Zone size non-uniformity
353	Size zone matrix (2.5D)	Zone size non-uniformity normalised
354	Size zone matrix (2.5D)	Zone percentage
355	Size zone matrix (2.5D)	Grey level variance
356	Size zone matrix (2.5D)	Zone size variance
357	Size zone matrix (2.5D)	Zone size entropy
358	Size zone matrix (3D)	Small zone emphasis
359	Size zone matrix (3D)	Large zone emphasis
360	Size zone matrix (3D)	Low grey level emphasis
361	Size zone matrix (3D)	High grey level emphasis
362	Size zone matrix (3D)	Small zone low grey level emphasis
363	Size zone matrix (3D)	Small zone high grey level emphasis
364	Size zone matrix (3D)	Large zone low grey level emphasis
365	Size zone matrix (3D)	Large zone high grey level emphasis
366	Size zone matrix (3D)	Grey level non-uniformity
367	Size zone matrix (3D)	Grey level non uniformity normalised
368	Size zone matrix (3D)	Zone size non-uniformity
369	Size zone matrix (3D)	Zone size non-uniformity normalised
370	Size zone matrix (3D)	Zone percentage
371	Size zone matrix (3D)	Grey level variance
372	Size zone matrix (3D)	Zone size variance
373	Size zone matrix (3D)	Zone size entropy
374	Distance zone matrix (2D)	Small distance emphasis
375	Distance zone matrix (2D)	Large distance emphasis
376	Distance zone matrix (2D)	Low grey level emphasis
377	Distance zone matrix (2D)	High grey level emphasis
378	Distance zone matrix (2D)	Small distance low grey level emphasis
379	Distance zone matrix (2D)	Small distance high grey level emphasis
380	Distance zone matrix (2D)	Large distance low grey level emphasis
381	Distance zone matrix (2D)	Large distance high grey level emphasis
382	Distance zone matrix (2D)	Grey level non-uniformity
383	Distance zone matrix (2D)	Grey level non-uniformity normalised

384	Distance zone matrix (2D)	Zone distance non-uniformity
385	Distance zone matrix (2D)	Zone distance non-uniformity normalised
386	Distance zone matrix (2D)	Zone percentage
387	Distance zone matrix (2D)	Grey level variance
388	Distance zone matrix (2D)	Zone distance variance
389	Distance zone matrix (2D)	Zone distance entropy
390	Distance zone matrix (2.5D)	Small distance emphasis
391	Distance zone matrix (2.5D)	Large distance emphasis
392	Distance zone matrix (2.5D)	Low grey level emphasis
393	Distance zone matrix (2.5D)	High grey level emphasis
394	Distance zone matrix (2.5D)	Small distance low grey level emphasis
395	Distance zone matrix (2.5D)	Small distance high grey level emphasis
396	Distance zone matrix (2.5D)	Large distance low grey level emphasis
397	Distance zone matrix (2.5D)	Large distance high grey level emphasis
398	Distance zone matrix (2.5D)	Grey level non-uniformity
399	Distance zone matrix (2.5D)	Grey level non-uniformity normalised
400	Distance zone matrix (2.5D)	Zone distance non-uniformity
401	Distance zone matrix (2.5D)	Zone distance non-uniformity normalised
402	Distance zone matrix (2.5D)	Zone percentage
403	Distance zone matrix (2.5D)	Grey level variance
404	Distance zone matrix (2.5D)	Zone distance variance
405	Distance zone matrix (2.5D)	Zone distance entropy
406	Distance zone matrix (3D)	Small distance emphasis
407	Distance zone matrix (3D)	Large distance emphasis
408	Distance zone matrix (3D)	Low grey level emphasis
409	Distance zone matrix (3D)	High grey level emphasis
410	Distance zone matrix (3D)	Small distance low grey level emphasis
411	Distance zone matrix (3D)	Small distance high grey level emphasis
412	Distance zone matrix (3D)	Large distance low grey level emphasis
413	Distance zone matrix (3D)	Large distance high grey level emphasis
414	Distance zone matrix (3D)	Grey level non-uniformity
415	Distance zone matrix (3D)	Grey level non-uniformity normalised
416	Distance zone matrix (3D)	Zone distance non-uniformity
417	Distance zone matrix (3D)	Zone distance non-uniformity normalised
418	Distance zone matrix (3D)	Zone percentage
419	Distance zone matrix (3D)	Grey level variance
420	Distance zone matrix (3D)	Zone distance variance
421	Distance zone matrix (3D)	Zone distance entropy
422	Neighbourhood grey tone difference matrix (2D)	Coarseness
423	Neighbourhood grey tone difference matrix (2D)	Contrast
424	Neighbourhood grey tone difference matrix (2D)	Busyness
425	Neighbourhood grey tone difference matrix (2D)	Complexity
426	Neighbourhood grey tone difference matrix (2D)	Strength

427	Neighbourhood grey tone difference matrix (2.5D)	Coarseness
428	Neighbourhood grey tone difference matrix (2.5D)	Contrast
429	Neighbourhood grey tone difference matrix (2.5D)	Busyness
430	Neighbourhood grey tone difference matrix (2.5D)	Complexity
431	Neighbourhood grey tone difference matrix (2.5D)	Strength
432	Neighbourhood grey tone difference matrix (3D)	Coarseness
433	Neighbourhood grey tone difference matrix (3D)	Contrast
434	Neighbourhood grey tone difference matrix (3D)	Busyness
435	Neighbourhood grey tone difference matrix (3D)	Complexity
436	Neighbourhood grey tone difference matrix (3D)	Strength
437	Neighbouring grey level dependence matrix (2D)	Low dependence emphasis
438	Neighbouring grey level dependence matrix (2D)	High dependence emphasis
439	Neighbouring grey level dependence matrix (2D)	Low grey level count emphasis
440	Neighbouring grey level dependence matrix (2D)	High grey level count emphasis
441	Neighbouring grey level dependence matrix (2D)	Low dependence low grey level emphasis
442	Neighbouring grey level dependence matrix (2D)	Low dependence high grey level emphasis
443	Neighbouring grey level dependence matrix (2D)	High dependence low grey level emphasis
444	Neighbouring grey level dependence matrix (2D)	High dependence high grey level emphasis
445	Neighbouring grey level dependence matrix (2D)	Grey level non-uniformity
446	Neighbouring grey level dependence matrix (2D)	Grey level non-uniformity normalised
447	Neighbouring grey level dependence matrix (2D)	Dependence count non-uniformity
448	Neighbouring grey level dependence matrix (2D)	Dependence count non-uniformity normalised
449	Neighbouring grey level dependence matrix (2D)	Dependence count percentage
450	Neighbouring grey level dependence matrix (2D)	Grey level variance
451	Neighbouring grey level dependence matrix (2D)	Dependence count variance
452	Neighbouring grey level dependence matrix (2D)	Dependence count entropy
453	Neighbouring grey level dependence matrix (2D)	Dependence count energy
454	Neighbouring grey level dependence matrix (2.5D)	Low dependence emphasis
455	Neighbouring grey level dependence matrix (2.5D)	High dependence emphasis
456	Neighbouring grey level dependence matrix (2.5D)	Low grey level count emphasis
457	Neighbouring grey level dependence matrix (2.5D)	High grey level count emphasis
458	Neighbouring grey level dependence matrix (2.5D)	Low dependence low grey level emphasis
459	Neighbouring grey level dependence matrix (2.5D)	Low dependence high grey level emphasis
460	Neighbouring grey level dependence matrix (2.5D)	High dependence low grey level emphasis
461	Neighbouring grey level dependence matrix (2.5D)	High dependence high grey level emphasis
462	Neighbouring grey level dependence matrix (2.5D)	Grey level non-uniformity
463	Neighbouring grey level dependence matrix (2.5D)	Grey level non-uniformity normalised
464	Neighbouring grey level dependence matrix (2.5D)	Dependence count non-uniformity
465	Neighbouring grey level dependence matrix (2.5D)	Dependence count non-uniformity normalised
466	Neighbouring grey level dependence matrix (2.5D)	Dependence count percentage
467	Neighbouring grey level dependence matrix (2.5D)	Grey level variance
468	Neighbouring grey level dependence matrix (2.5D)	Dependence count variance
469	Neighbouring grey level dependence matrix (2.5D)	Dependence count entropy

470	Neighbouring grey level dependence matrix (2.5D)	Dependence count energy
471	Neighbouring grey level dependence matrix (3D)	Low dependence emphasis
472	Neighbouring grey level dependence matrix (3D)	High dependence emphasis
473	Neighbouring grey level dependence matrix (3D)	Low grey level count emphasis
474	Neighbouring grey level dependence matrix (3D)	High grey level count emphasis
475	Neighbouring grey level dependence matrix (3D)	Low dependence low grey level emphasis
476	Neighbouring grey level dependence matrix (3D)	Low dependence high grey level emphasis
477	Neighbouring grey level dependence matrix (3D)	High dependence low grey level emphasis
478	Neighbouring grey level dependence matrix (3D)	High dependence high grey level emphasis
479	Neighbouring grey level dependence matrix (3D)	Grey level non-uniformity
480	Neighbouring grey level dependence matrix (3D)	Grey level non-uniformity normalised
481	Neighbouring grey level dependence matrix (3D)	Dependence count non-uniformity
482	Neighbouring grey level dependence matrix (3D)	Dependence count non-uniformity normalised
483	Neighbouring grey level dependence matrix (3D)	Dependence count percentage
484	Neighbouring grey level dependence matrix (3D)	Grey level variance
485	Neighbouring grey level dependence matrix (3D)	Dependence count variance
486	Neighbouring grey level dependence matrix (3D)	Dependence count entropy
487	Neighbouring grey level dependence matrix (3D)	Dependence count energy