

Extracted Features Navigation

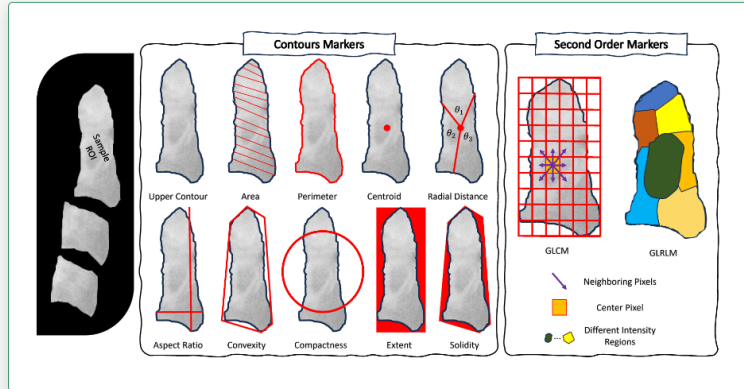
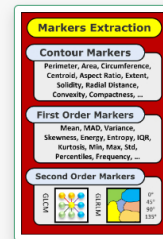
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Introduction

Markers extraction in image processing involves analyzing contour-based and texture-based features to gain insights into object shapes and patterns. Contours represent the boundaries of objects, and various markers like perimeter, area, centroid, aspect ratio, and solidity describe their shape, size, and compactness. Radial distance and convexity help detect shape symmetry and deviations from convex forms, while compactness evaluates the roundness of an object.

In texture analysis, first-order markers, such as mean, variance, and skewness, focus on pixel intensity statistics, whereas second-order markers like GLCM (Gray-Level Co-occurrence Matrix) and GLRLM (Gray-Level Run-Length Matrix) account for spatial relationships between pixels, revealing patterns and repetitions in textures.

These markers are vital for applications such as object recognition, shape matching, and segmentation, providing both geometric and textural information essential for comprehensive image analysis.

Features Extracted From Pickle: **Default_Dataset_All.pickle**Classes: **Stage 1** **Stage 2** **Stage 3** **Stage 4** **Stage 5** **Stage 6**Distances: **10** **25** **50** **75** **100**Augmentation Techniques: **rotate** **horz** **vert** **zoom** **shift**Number of Records: **15270**Date and Time of Extraction: **2024-10-02 15:49:49**

Top 10 Records

#	Mean	Median	MeanAbsoluteDeviation	RobustMeanAbsoluteDeviation	MedianAbsoluteDeviation	RootMeanSquare	Variance	Minimum	Maximum
1	39.50458826370441	0.0	60.74806368203745	39.50458826370441	0.0	4.675069431691276	6265.413127794041	0.0	227.57425742574
2	39.50458826370441	0.0	60.74806368203745	39.50458826370441	0.0	4.675069431691276	6265.413127794041	0.0	227.57425742574
3	69.93984272608122	28.75742857142856	73.80732742554139	57.379292267365656	6.5285714285714285	5.786354722052551	7749.178308704173	0.0	234.45714285714
4	69.93984272608122	28.75742857142856	73.80732742554139	57.379292267365656	6.5285714285714285	5.786354722052551	7749.178308704173	0.0	234.45714285714
5	102.04593941117903	101.61797752808988	87.00492754510316	73.15929455269521	19.21348314606741	6.9442799705501495	9425.806977778338	1.9101723595505616	235.65168539325
6	102.04593941117903	101.61797752808988	87.00492754510316	73.15929455269521	19.21348314606741	6.9442799705501495	9425.806977778338	1.9101723595505616	235.65168539325
7	117.71540321433648	120.93258426966293	76.2798924833783	61.24363532925615	14.348314606741573	7.477208215525645	8273.916964473787	3.837460674157303	235.75280898876
8	117.71540321433648	120.93258426966293	76.2798924833783	61.24363532925615	14.348314606741573	7.477208215525645	8273.916964473787	3.837460674157303	235.75280898876
9	127.94609586118617	124.12359550561796	64.33331953068598	51.63902716541034	10.92134831460674	7.7989417709651	6942.969374325996	3.837460674157303	235.75280898876
10	127.94609586118617	124.12359550561796	64.33331953068598	51.63902716541034	10.92134831460674	7.7989417709651	6942.969374325996	3.837460674157303	235.75280898876

Features Extracted From Pickle: **Default_Dataset_All.pickle**Features Extracted From Pickle: **ISBI_2025_All.pickle**