AQC0482

Nanopublication — Computational Image Analysis - AQC0482

by Arnaud Quercy · Whispers of Solitude · 2023

Claim 1: Computational Image Analysis - AQC0482

> The artwork Whispers [1] of Solitude (AQC0482) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2025-12-15. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

CONTEXT

Analysis performed according to MMIDS-CMP-2025 [3] includes four metric categories: (1) Color distribution via k-means (10 colors), (2) Texture analysis using Haralick features, (3) Brightness and contrast measurements, (4) Spatial pattern characterization. Source image [5]: 1466x2048 pixels. Analysis date: 2025-12-15.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D0BAAC	15.3	orange	silver
2		A78371	14.6	orange	rosybrown
3		C09E8B	13	orange	tan
4		8C6857	11.2	orange	dimgray
5		E2D3C8	11.2	orange	lightgray
6		6A270C	10.9	orange	russet
7		471307	9	red-orange	very dark red
8		624638	7.5	orange	dark brown
9		904B27	5.5	orange	burnt sienna
10		CC911F	1.8	yellow-orange	goldenrod

Color Families:

Family	%
orange	89.2
red-orange	9
yellow-orange	1.8

TEXTURE ANALYSIS

Metric	Value
Detail Frequency Ratio	0.689
Directional Coherence	0.012
Edge Density	0.302
Global Roughness	0.233
Gradient Smoothness	0.116
Gradient Variance	0.122
Mean Gradient Magnitude	0.396
Mean Local Roughness	0.062
Pattern Complexity	0.13
Pattern Repetition	1
Roughness Uniformity	0.041
Spatial Variation	0.075
Texture Consistency	0.842

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Brightness Entropy	7.756
Brightness Skewness	-0.184
Brightness Uniformity	0.545
Brightness Variance	0.233
Coarse Contrast	None
Contrast Clustering	0.158
Contrast Uniformity	0.392
Dynamic Range	1
Edge Contrast	0.396
Effective Dynamic Range	0.714
Fine Contrast	0.043
Highlight Clipping	0.005
Highlight Percentage	32.307
Mean Brightness	0.513
Mean Local Contrast	0.053
Medium Contrast	0.066
Michelson Contrast	1
Midtone Percentage	40.555
Multiscale Contrast Ratio	1
Rms Contrast	0.233
Shadow Clipping	0.013
Shadow Percentage	27.138
Tonal Balance	0.489
Weber Contrast	0.777

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Analogous Dominance	0.997
Color Clustering	0.676
Color Transition Smoothness	0
Complementary Balance	0.003
High Saturation Ratio	0.232
Hue Concentration	0.984
Low Saturation Ratio	0.445
Mean Saturation	0.428
Medium Saturation Ratio	0.323
Saturation Clustering	0.995
Saturation Variance	0.092
Sharp Transition Ratio	0.1
Spatial Coherence	0.671
Temperature Bias	0.994

Metric	Value
Transition Directionality	0.011
Transition Uniformity	0.199

Methodology

This analysis employs standardized computational methods for objective image characterization. Color extraction uses k-means clustering algorithm. Texture analysis applies Haralick feature extraction. Brightness metrics include mean, variance, and distribution analysis. Spatial patterns are characterized through coherence and clustering measurements. All methods are deterministic and reproducible. Analysis performed by Multimodal Institute's computational imaging systems.

REFERENCES

[1] Arnaud Quercy (2023). Whispers of Solitude — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0482.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2023/01/whispers-of-solitude_5fo.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 https://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

CHECKSUM (SHA-256)

5a58839d0edaf6aba42f608e88f8714574d2eab799ffa941bd9b23cb4150d-d87

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