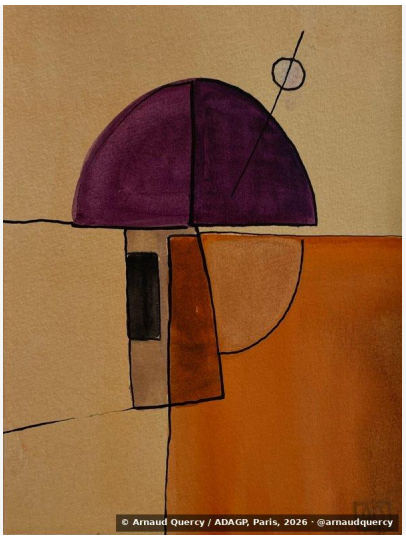
AQC1061 | NAN-COL000624

Nanopublication — Computational Image Analysis - AQC1061

by Arnaud Quercy · Watercolor Study in G Minor No. 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1061

Computational image analysis of artwork Watercolor Study in G Minor No. 1 (AQC1061) [1] by Arnaud Quercy [2], performed according to IDS-CMP-2025 [3], using k-means clustering method with 10 color extraction parameters. Analysis includes color distribution, texture metrics, brightness/contrast measurements, and spatial pattern characterization. Analysis completed on 2026-07-13.

CONTEXT

Analysis performed according to IDS-CMP-2025 [3] includes four metric categories: (a) Color distribution via k-means (10 colors), (b) Texture analysis using Haralick features, (c) Brightness and contrast measurements, (d) Spatial pattern characterization. Source image: 1552x2069 pixels. Analysis date: 2026-07-13.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		A57E4D	29.3	orange	peru
2		AC8B5E	19.9	yellow-orange	ochre
3		9C4708	18.3	orange	russet
4		330E20	7.5	red	very dark red
5		813909	5.4	orange	russet
6		4D1B30	5.1	red	very dark red
7		9D5A24	4.4	orange	burnt sienna
8		662605	4.2	orange	maroon
9		120908	3.6	black	black
10		835B3B	2.2	orange	burnt sienna

Color Families:

Family	%
orange	63.9
yellow-orange	19.9
red	12.6
black	3.6

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.162
Mean Local Roughness	0.011
Roughness Uniformity	0.009
Edge Density	0.007
Mean Gradient Magnitude	0.087
Gradient Variance	0.016
Gradient Smoothness	0.0
Directional Coherence	0.011
Pattern Complexity	0.127
Pattern Repetition	1.0
Detail Frequency Ratio	0.596
Spatial Variation	0.111
Texture Consistency	0.356

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.4
Brightness Variance	0.162
Brightness Uniformity	0.595
Brightness Skewness	-0.712
Brightness Entropy	6.752
Rms Contrast	0.162
Michelson Contrast	1.0
Weber Contrast	0.771
Mean Local Contrast	0.012
Contrast Uniformity	0.052
Dynamic Range	0.827
Effective Dynamic Range	0.49
Shadow Percentage	28.341
Midtone Percentage	71.655
Highlight Percentage	0.004
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.007
Medium Contrast	0.014
Coarse Contrast	0.022
Multiscale Contrast Ratio	0.329
Edge Contrast	0.087
Contrast Clustering	0.644

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.781
Color Clustering	0.553
Color Transition Smoothness	0.765
Transition Uniformity	0.867
Sharp Transition Ratio	0.1
Transition Directionality	0.011
Mean Saturation	0.666
Saturation Variance	0.041
Low Saturation Ratio	0.006
Medium Saturation Ratio	0.594
High Saturation Ratio	0.4
Saturation Clustering	0.999
Hue Concentration	0.941
Complementary Balance	0.0
Analogous Dominance	0.996
Temperature Bias	0.999

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 Ideamorphic Studies' computational imaging systems.

REFERENCES

[1] Quercy, A. (2026). Watercolor Study in G Minor No. 1 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC1061.html

[2] Quercy, A. (2025). ORCID https://orcid.org/0009-0000-2662-7790

[3] Quercy, A. (2026). Computational Image Analysis Standard. https://ideamorphism.org/en/measurements/2025/09/ids-cmp-2025-computational-image-analysis-standard-5dq9.html

EPISTEMIC PROFILE

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

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