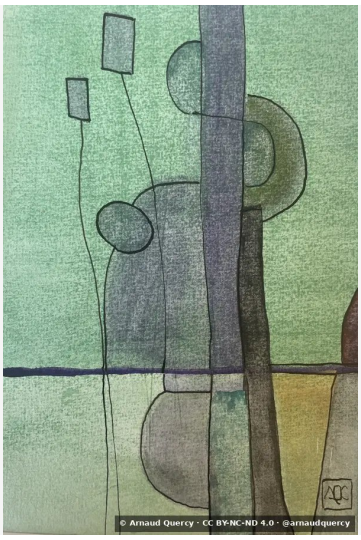
AQC0800 | NAN-COL000154

Nanopublication — Computational Image Analysis - AQC0800

by Arnaud Quercy · The Tuscan Hills - Lines Dawn by Time and Wind · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0800

Computational image analysis of artwork The Tuscan Hills - Lines Dawn by Time and Wind (AQC0800) [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 2025-10-03.

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: 2508x3761 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		99B79A	15.7	yellow-green	darkseagreen
2		8FA689	15.0	yellow-green	steel gray
3		A6C7AA	14.8	yellow-green	steel gray
4		82927B	12.6	yellow-green	gray
5		717C6F	10.2	yellow-green	dimgray
6		B5D9BD	9.0	yellow-green	silver
7		5F675E	8.9	yellow-green	dimgrey
8		4D4F46	5.6	yellow-green	darkslategray
9		33352A	4.6	yellow-green	darkslategrey
10		998E56	3.5	yellow	grey

Color Families:

Family	%
yellow-green	96.5
yellow	3.5

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.16
Mean Local Roughness	0.025
Roughness Uniformity	0.015
Edge Density	0.167
Mean Gradient Magnitude	0.214
Gradient Variance	0.037
Gradient Smoothness	0.105
Directional Coherence	0.008
Pattern Complexity	0.12
Pattern Repetition	1.0
Detail Frequency Ratio	0.614
Spatial Variation	0.099
Texture Consistency	0.784

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.575
Brightness Variance	0.16
Brightness Uniformity	0.722
Brightness Skewness	-0.632
Brightness Entropy	7.266
Rms Contrast	0.16
Michelson Contrast	1.0
Weber Contrast	0.552
Mean Local Contrast	0.027
Contrast Uniformity	0.457
Dynamic Range	0.992
Effective Dynamic Range	0.537
Shadow Percentage	9.028
Midtone Percentage	57.197
Highlight Percentage	33.774
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.045
Fine Contrast	0.015
Medium Contrast	0.034
Coarse Contrast	0.054
Multiscale Contrast Ratio	0.268
Edge Contrast	0.214
Contrast Clustering	0.216

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.705
Color Clustering	0.845
Color Transition Smoothness	0.461
Transition Uniformity	0.761
Sharp Transition Ratio	0.1
Transition Directionality	0.009
Mean Saturation	0.198
Saturation Variance	0.007
Low Saturation Ratio	0.915
Medium Saturation Ratio	0.085
High Saturation Ratio	0.0
Saturation Clustering	1.0
Hue Concentration	0.771
Complementary Balance	0.017
Analogous Dominance	0.701
Temperature Bias	-0.195

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. (2024). The Tuscan Hills - Lines Dawn by Time and Wind - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0800.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/2025/11/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

CHECKSUM (SHA-256)

7daf7ec619d6c0043ad9a5c4827df86e6e4b293b0a56f6622c343f9282d70ec9

Licensed under Creative Commons Attribution 4.0 International (CC BY 4.0)

Artist	Arnaud Quercy
Date	2024
Collection	Mediterranean Echoes
Certificate	20241205-0297
Asset code	AQC0800
Identifier	NAN-COL000154
Version	1
Published	2025-10-03

ISSN: applied for — U.S. ISSN Center, Library of Congress

© 2026 Ideamorphic Studies

Published by Art Quam Anima Publishing New York,
an assumed name of AQA Publishing LLC

c/o Northwest Registered Agent, 418 Broadway Ste N
Albany, NY 12207, USA
+1 917-764-5470

NY DOS ID 7624376 · Assumed Name ID 7658709

publishing.artquamanima.com

Last updated: 2026-10-12

Persistent URI: https://ideamorphism.org/en/nanopubs/2025/10/AQC0800-computational-image-analysis-aqc0800.pdf