AQC0876

Nanopublication — Computational Image Analysis - AQC0876

by Arnaud Quercy · E Minor - Research on Harmony - Variations 5 · 2025

Claim 1: Computational Image Analysis - AQC0876

> Analysis record [3]: E Minor [1] - Research on Harmony - Variations 5 (AQC0876) [2] by Arnaud Quercy [2]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 2025-12-11.

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]: 1968x2952 pixels. Analysis date: 2025-12-11.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		EE7F0D	18.0	orange	darkorange
2		E49C40	15.8	orange	peru
3		ECD741	15.7	yellow	sandybrown
4		EEAC56	11.3	orange	lightsalmon
5		D1CF1A	10.1	yellow	goldenrod
6		BAC158	9.8	yellow	ochre
7		CE9723	6.5	yellow-orange	darkgoldenrod
8		605646	6.1	yellow-orange	dark brown
9		E1DDCE	3.5	yellow	gainsboro
10		413219	3.4	yellow-orange	darkslategray
11		C5D57F	0.3	yellow-green	ochre [Accent]

Color Families:

Family	%
orange	45.0
yellow	39.1
yellow-orange	16.0
yellow-green	0.3

Accent Colors:

Hex	Family	Name	Chroma
C5D57F	yellow-green	ochre	45.2

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.146
Mean Local Roughness	0.019
Roughness Uniformity	0.022
Edge Density	0.063
Mean Gradient Magnitude	0.153
Gradient Variance	0.055
Gradient Smoothness	0.0
Directional Coherence	0.012
Pattern Complexity	0.107
Pattern Repetition	1.0
Detail Frequency Ratio	0.627
Spatial Variation	0.071
Texture Consistency	0.688

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.656
Brightness Variance	0.146
Brightness Uniformity	0.777
Brightness Skewness	-1.388
Brightness Entropy	6.865
Rms Contrast	0.146
Michelson Contrast	1.0
Weber Contrast	0.345
Mean Local Contrast	0.021
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.522
Shadow Percentage	6.21
Midtone Percentage	37.949
Highlight Percentage	55.841
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.01
Medium Contrast	0.026
Coarse Contrast	0.039
Multiscale Contrast Ratio	0.249
Edge Contrast	0.153
Contrast Clustering	0.312

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.777
Color Clustering	0.393
Color Transition Smoothness	0.617
Transition Uniformity	0.622
Sharp Transition Ratio	0.1
Transition Directionality	0.008
Mean Saturation	0.704
Saturation Variance	0.048
Low Saturation Ratio	0.089

Metric	Value
Medium Saturation Ratio	0.311
High Saturation Ratio	0.6
Saturation Clustering	0.999
Hue Concentration	0.975
Complementary Balance	0.0
Analogous Dominance	0.999
Temperature Bias	0.851

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 (2025). E Minor - Research on Harmony - Variations 5 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0876.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2025/11/e-minor-research-on-harmony-variations-5_i1o.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)

f2455d3abc45e4c7d241f458a9dc81b38a836c-c322f8a1f8a177482404469c0d

Artist	Arnaud Quercy
Date	2025
Collection	Synesthetic Explorations
Certificate	20251123-0104
Asset code	AQC0876
Version	1
Published	2026-04-09

Published by: Art Quam Anima Publishing New York LLC — publishing.artquamanima.com

Date of publication: 2026-04-09

Persistent URI: https://multimodal.institute/en/nanopubs/2025/12/AQC0876-computational-image-analysis-aqc0876.pdf