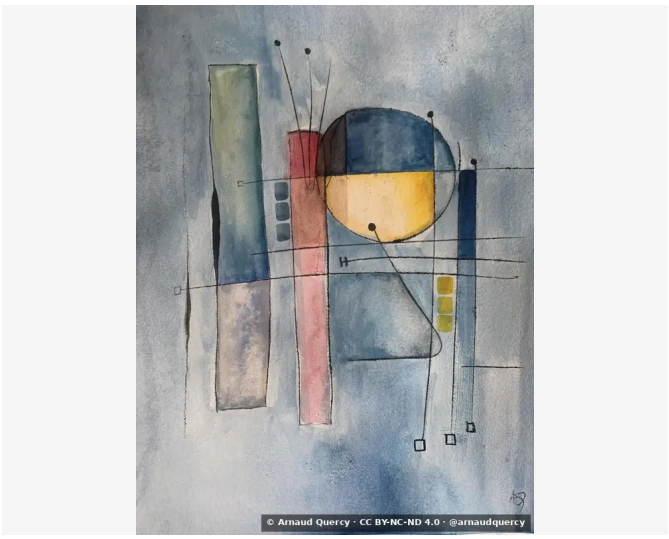
AQC0436 | NAN-COL000467

Nanopublication — Computational Image Analysis - AQC0436

by Arnaud Quercy · Eb minor - Reflexions 2 · 2023



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0436

Computational image analysis of artwork Eb minor - Reflexions 2 (AQC0436) [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: 1536x2048 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		9DA0A4	17.6	gray	steel gray
2		AFB1B3	16.6	gray	steel gray
3		8A9195	16.5	gray	lightslategray
4		788084	14.7	gray	gray
5		C3C2C3	14.2	gray	silver
6		5F6C76	7.0	blue	dimgray
7		DDB087	4.0	orange	burlywood
8		3F4D59	3.9	blue-violet	grayish purple
9		2B2B30	3.3	gray	very dark gray
10		A67350	2.3	orange	peru
11		E3AC45	0.3	yellow-orange	sandybrown [Accent]
12		83403C	0.3	red-orange	burnt sienna [Accent]
13		868035	0.3	yellow	olivedrab [Accent]

Color Families:

Family	%
gray	82.9
blue	7.0
orange	6.2
blue-violet	3.9
yellow-orange	0.3
red-orange	0.3
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
E3AC45	yellow-orange	sandybrown	59.8
83403C	red-orange	burnt sienna	32.2
868035	yellow	olivedrab	40.8

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.145
Mean Local Roughness	0.017
Roughness Uniformity	0.018
Edge Density	0.052
Mean Gradient Magnitude	0.146
Gradient Variance	0.041
Gradient Smoothness	0.0
Directional Coherence	0.005
Pattern Complexity	0.112
Pattern Repetition	1.0
Detail Frequency Ratio	0.615
Spatial Variation	0.078
Texture Consistency	0.661

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.588
Brightness Variance	0.145
Brightness Uniformity	0.753
Brightness Skewness	-0.919
Brightness Entropy	7.085
Rms Contrast	0.145
Michelson Contrast	1.0
Weber Contrast	0.466
Mean Local Contrast	0.019
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.494
Shadow Percentage	6.469
Midtone Percentage	60.035
Highlight Percentage	33.496
Shadow Clipping	0.001
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.008
Medium Contrast	0.024
Coarse Contrast	0.038
Multiscale Contrast Ratio	0.219
Edge Contrast	0.146
Contrast Clustering	0.339

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.719
Color Clustering	0.618
Color Transition Smoothness	0.624
Transition Uniformity	0.718
Sharp Transition Ratio	0.1
Transition Directionality	0.002
Mean Saturation	0.123
Saturation Variance	0.02
Low Saturation Ratio	0.886
Medium Saturation Ratio	0.108
High Saturation Ratio	0.006
Saturation Clustering	1.0
Hue Concentration	0.217
Complementary Balance	0.179
Analogous Dominance	0.597
Temperature Bias	-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 Ideamorphic Studies' computational imaging systems.

REFERENCES

[1] Quercy, A. (2023). Eb minor - Reflexions 2 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0436.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

CHECKSUM (SHA-256)

dabb78c208ede695d454cef9a8fb869e37c7162323679e4c559450560e8a5c57

Artist Arnaud Quercy
Date 2023
Collection Harmonic Crossing
Certificate 20231231-0022
Asset code AQC0436
Identifier NAN-COL000467
Version 1
Published 2025-10-03

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

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: 2026-09-15

Persistent URI: https://ideamorphism.org/en/nanopubs/2025/10/AQC0436-computational-image-analysis-aqc0436.pdf