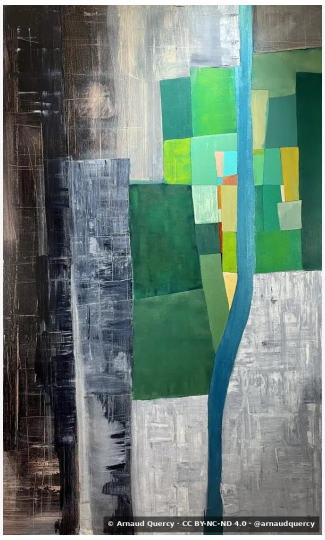
AQC0710 | NAN-COL000243

Nanopublication — Computational Image Analysis - AQC0710

by Arnaud Quercy · Resilience · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0710

The artwork Resilience [1] (AQC0710) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. 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]: 2008x3347 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		1D1B1C	14.3	gray	very dark gray
2		2C463F	14.3	green	darkslategray
3		B9BCB4	12.9	gray	silver
4		757C7A	12.5	gray	gray
5		989D9D	10.7	gray	steel gray
6		33785F	9.9	green	seagreen
7		5B5A59	9.0	gray	dimgray
8		D2DAD5	8.0	white	lightgray
9		5ABFA3	6.6	green	mediumaquamarine
10		A4C43B	1.8	yellow-green	yellowgreen
11		C4AF2D	0.3	yellow	goldenrod [Accent]
12		F6DAB6	0.3	yellow-orange	wheat [Accent]
13		E8F4FC	0.3	blue	white [Accent]
14		68BBD0	0.3	blue-green	mediumturquoise [Accent]
15		9F846A	0.3	orange	gray [Accent]

Color Families:

Family	%
gray	59.4
green	30.8
white	8.0
yellow-green	1.8
yellow	0.3
yellow-orange	0.3
blue	0.3
blue-green	0.3
orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
C4AF2D	yellow	goldenrod	64.3
F6DAB6	yellow-orange	wheat	21.4
E8F4FC	blue	white	5.4
68BBD0	blue-green	mediumturquoise	26.9
9F846A	orange	gray	19.0

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.234
Mean Local Roughness	0.029
Roughness Uniformity	0.028
Edge Density	0.141
Mean Gradient Magnitude	0.228
Gradient Variance	0.078
Gradient Smoothness	0.0
Directional Coherence	0.012
Pattern Complexity	0.12
Pattern Repetition	1.0
Detail Frequency Ratio	0.652
Spatial Variation	0.162
Texture Consistency	0.776

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.461
Brightness Variance	0.234
Brightness Uniformity	0.491
Brightness Skewness	0.024
Brightness Entropy	7.808
Rms Contrast	0.234
Michelson Contrast	1.0
Weber Contrast	0.818
Mean Local Contrast	0.031
Contrast Uniformity	0.068
Dynamic Range	1.0
Effective Dynamic Range	0.733
Shadow Percentage	33.338
Midtone Percentage	41.982
Highlight Percentage	24.68
Shadow Clipping	0.047
Highlight Clipping	0.005
Tonal Balance	0.542
Fine Contrast	0.015
Medium Contrast	0.039
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.228
Contrast Clustering	0.224

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.714
Color Clustering	0.713
Color Transition Smoothness	0.397
Transition Uniformity	0.453
Sharp Transition Ratio	0.1
Transition Directionality	0.013
Mean Saturation	0.275
Saturation Variance	0.063
Low Saturation Ratio	0.628
Medium Saturation Ratio	0.305
High Saturation Ratio	0.067
Saturation Clustering	0.998
Hue Concentration	0.463
Complementary Balance	0.168
Analogous Dominance	0.61
Temperature Bias	-0.497

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 (2024). Resilience — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0710.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/resilience_7wc.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

WHERE THIS WORK LIVES

THEMATIC ELEMENTS

urban nature painting · acrylic on linen · Nature in the city collection · contemporary environmental art · controlled organic forms · vertical composition · monumental format · gray green contrast

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

5e342948a421b179fb9f03893499be671868d79626fd34b8ba08fe44c7ae91d8

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