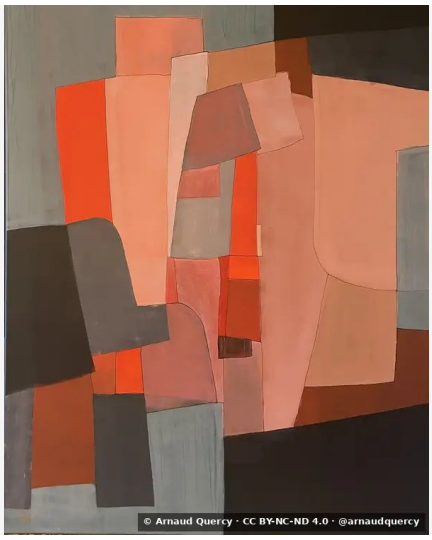
AQC0698 | NAN-COL000008

Nanopublication — Computational Image Analysis - AQC0698

by Arnaud Quercy · C Octaves - Reflexions 23 · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0698

Analysis record: C Octaves - Reflexions 23 (AQC0698) [1] by Arnaud Quercy [2], per IDS-CMP-2025 [3]. Method: k-means. Parameters: 10 colors. Metrics: color distribution, texture, brightness, spatial patterns. Completed: 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: 2237x2797 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		D08163	19.1	orange	peru
2		898175	18.3	yellow-orange	gray
3		2B221C	14.2	orange	very dark gray
4		B66B52	11.9	orange	indianred
5		45382F	9.2	orange	darkslategray
6		E59472	7.7	orange	darksalmon
7		6D5E54	6.4	orange	dimgray
8		E44A24	5.1	red-orange	chocolate
9		9F4629	4.3	orange	burnt sienna
10		72341D	3.8	orange	russet
11		8690A6	0.3	blue-violet	lightslategray [Accent]

Color Families:

Family	%
orange	76.5
yellow-orange	18.3
red-orange	5.1
blue-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
8690A6	blue-violet	lightslategray	13.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.167
Mean Local Roughness	0.006
Roughness Uniformity	0.016
Edge Density	0.009
Mean Gradient Magnitude	0.041
Gradient Variance	0.021
Gradient Smoothness	0.0
Directional Coherence	0.341
Pattern Complexity	0.09
Pattern Repetition	1.0
Detail Frequency Ratio	0.64
Spatial Variation	0.124
Texture Consistency	0.57

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.432
Brightness Variance	0.167
Brightness Uniformity	0.613
Brightness Skewness	-0.536
Brightness Entropy	6.921
Rms Contrast	0.167
Michelson Contrast	0.974
Weber Contrast	0.748
Mean Local Contrast	0.006
Contrast Uniformity	0.0
Dynamic Range	0.886
Effective Dynamic Range	0.518
Shadow Percentage	27.387
Midtone Percentage	70.004
Highlight Percentage	2.61
Shadow Clipping	0.0
Highlight Clipping	0.0
Tonal Balance	0.0
Fine Contrast	0.003
Medium Contrast	0.008
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.041
Contrast Clustering	0.43

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.698
Color Clustering	0.46
Color Transition Smoothness	0.883
Transition Uniformity	0.86
Sharp Transition Ratio	0.1
Transition Directionality	0.348
Mean Saturation	0.424
Saturation Variance	0.047
Low Saturation Ratio	0.327
Medium Saturation Ratio	0.557
High Saturation Ratio	0.116
Saturation Clustering	1.0
Hue Concentration	0.992
Complementary Balance	0.001
Analogous Dominance	0.999
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. (2024). C Octaves - Reflexions 23 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0698.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)

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