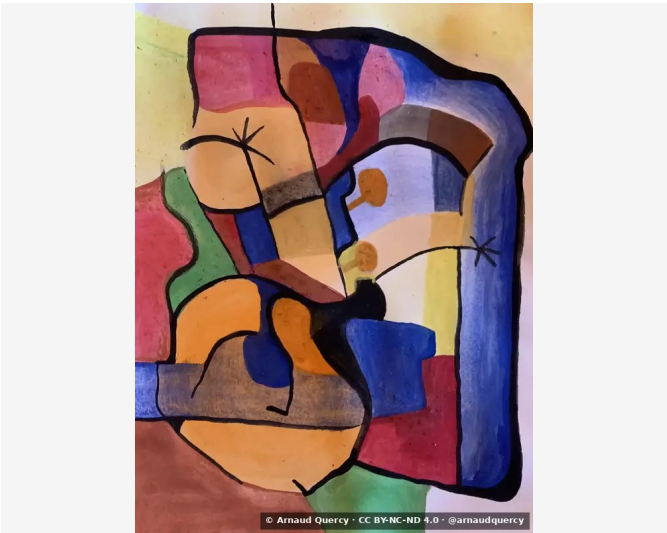


Nanopublication – Computational Image Analysis – AQC0416

by Arnaud Quercy · A woman in her sundress · 2023



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0416

Computational image analysis of artwork A woman in her sundress (AQC0416) [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		D18E53	13.1	orange	peru
2		9B5340	13.1	red-orange	burnt sienna
3		242B71	11.9	violet	indigo
4		170E17	11.9	red-violet	black
5		D6BB89	11.9	yellow-orange	tan
6		C9BBCF	9.9	red-violet	thistle
7		732E2D	9.2	red-orange	russet
8		BC5567	7.4	red	indianred
9		667D65	6.9	yellow-green	dimgray
10		5960A8	4.7	violet	steelblue
11		E4DBBE	0.3	yellow	wheat [Accent]

Color Families:

Family	%
red-orange	22.2
red-violet	21.8
violet	16.7
orange	13.1
yellow-orange	11.9
red	7.4
yellow-green	6.9
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
E4DBBE	yellow	wheat	15.1

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.233
Mean Local Roughness	0.007
Roughness Uniformity	0.014
Edge Density	0.015
Mean Gradient Magnitude	0.072
Gradient Variance	0.034
Gradient Smoothness	0.0
Directional Coherence	0.112
Pattern Complexity	0.107
Pattern Repetition	1.0
Detail Frequency Ratio	0.568
Spatial Variation	0.082
Texture Consistency	0.766

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.437
Brightness Variance	0.233
Brightness Uniformity	0.467
Brightness Skewness	-0.02
Brightness Entropy	7.679
Rms Contrast	0.233
Michelson Contrast	1.0
Weber Contrast	0.861
Mean Local Contrast	0.009
Contrast Uniformity	0.0
Dynamic Range	0.98
Effective Dynamic Range	0.741
Shadow Percentage	34.236
Midtone Percentage	44.864
Highlight Percentage	20.9
Shadow Clipping	0.003
Highlight Clipping	0.0
Tonal Balance	0.418
Fine Contrast	0.004
Medium Contrast	0.011
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.072
Contrast Clustering	0.234

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.667
Color Clustering	0.696
Color Transition Smoothness	0.779
Transition Uniformity	0.744
Sharp Transition Ratio	0.1
Transition Directionality	0.111
Mean Saturation	0.507
Saturation Variance	0.041
Low Saturation Ratio	0.176
Medium Saturation Ratio	0.63
High Saturation Ratio	0.194
Saturation Clustering	0.999
Hue Concentration	0.464
Complementary Balance	0.088
Analogous Dominance	0.62
Temperature Bias	0.49

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). A woman in her sundress - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0416.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)

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