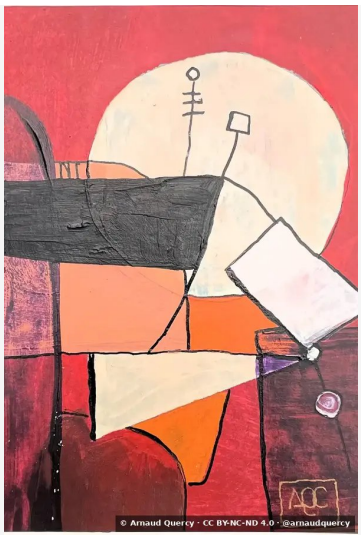
AQC0513 | NAN-COL000421

Nanopublication — Computational Image Analysis - AQC0513

by Arnaud Quercy · Tango Giro · 2024



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0513

K-means clustering (10 colors) performed on artwork Tango Giro (AQC0513) [1] by Arnaud Quercy [2] on 2025-10-03, according to IDS-CMP-2025 [3]. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

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: 1153x1730 pixels. Analysis date: 2025-10-03.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E76168	19.6	red-orange	indianred
2		FAE4CC	18.2	orange	blanchedalmond
3		5F5356	10.8	red	dimgray
4		743436	10.0	red-orange	russet
5		FCF1E7	9.7	orange	white
6		8F6B70	8.7	red	gray
7		F49E85	8.4	red-orange	lightsalmon
8		CE3D45	6.5	red-orange	crimson
9		27191B	4.0	red-orange	very dark gray
10		FA7732	4.0	orange	tomato
11		90689E	0.3	red-violet	dusty mauve [Accent]

Color Families:

Family	%
red-orange	48.6
orange	31.9
red	19.5
red-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
90689E	red-violet	dusty mauve	34.7

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.252
Mean Local Roughness	0.022
Roughness Uniformity	0.033
Edge Density	0.08
Mean Gradient Magnitude	0.156
Gradient Variance	0.102
Gradient Smoothness	0.0
Directional Coherence	0.191
Pattern Complexity	0.126
Pattern Repetition	1.0
Detail Frequency Ratio	0.626
Spatial Variation	0.162
Texture Consistency	0.704

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.586
Brightness Variance	0.252
Brightness Uniformity	0.571
Brightness Skewness	0.099
Brightness Entropy	7.299
Rms Contrast	0.252
Michelson Contrast	1.0
Weber Contrast	0.703
Mean Local Contrast	0.022
Contrast Uniformity	0.0
Dynamic Range	1.0
Effective Dynamic Range	0.725
Shadow Percentage	17.083
Midtone Percentage	47.52
Highlight Percentage	35.397
Shadow Clipping	0.059
Highlight Clipping	0.027
Tonal Balance	0.0
Fine Contrast	0.013
Medium Contrast	0.028
Coarse Contrast	None
Multiscale Contrast Ratio	1.0
Edge Contrast	0.156
Contrast Clustering	0.296

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.75
Color Clustering	0.567
Color Transition Smoothness	0.58
Transition Uniformity	0.316
Sharp Transition Ratio	0.1
Transition Directionality	0.18
Mean Saturation	0.378
Saturation Variance	0.059
Low Saturation Ratio	0.437
Medium Saturation Ratio	0.473
High Saturation Ratio	0.09
Saturation Clustering	0.998
Hue Concentration	0.971
Complementary Balance	0.001
Analogous Dominance	0.993
Temperature Bias	0.994

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). Tango Giro - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0513.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

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