AQC0443 | NAN-COL000462

Nanopublication — Computational Image Analysis - AQC0443

by Arnaud Quercy · The Dragon Breeder - Variation 1 · 2023

CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0443

The artwork The Dragon Breeder - Variation 1 (AQC0443) [1] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2025-10-03. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

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		C9A58A	14.5	orange	tan
2		999087	14.5	orange	gray
3		5F2B20	12.3	red-orange	russet
4		34120B	12.0	red-orange	very dark red
5		8B4A3D	11.6	red-orange	burnt sienna
6		6A6260	8.5	gray	dimgray
7		C7634F	7.4	red-orange	indianred
8		2E353F	6.8	blue-violet	grayish purple
9		EDC7B1	6.8	orange	wheat
10		B7963D	5.6	yellow-orange	peru
11		837D3E	0.3	yellow	olivedrab [Accent]

Color Families:

Family	%
red-orange	43.3
orange	35.8
gray	8.5
blue-violet	6.8
yellow-orange	5.6
yellow	0.3

Accent Colors:

Hex	Family	Name	Chroma
837D3E	yellow	olivedrab	35.7

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.218
Mean Local Roughness	0.033
Roughness Uniformity	0.026
Edge Density	0.159
Mean Gradient Magnitude	0.228
Gradient Variance	0.057
Gradient Smoothness	0.0
Directional Coherence	0.008
Pattern Complexity	0.15
Pattern Repetition	1.0
Detail Frequency Ratio	0.66
Spatial Variation	0.111
Texture Consistency	0.805

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.438
Brightness Variance	0.218
Brightness Uniformity	0.502
Brightness Skewness	0.013
Brightness Entropy	7.689
Rms Contrast	0.218
Michelson Contrast	1.0
Weber Contrast	0.808
Mean Local Contrast	0.031
Contrast Uniformity	0.263
Dynamic Range	1.0
Effective Dynamic Range	0.678
Shadow Percentage	35.544
Midtone Percentage	47.938
Highlight Percentage	16.518
Shadow Clipping	0.007
Highlight Clipping	0.003
Tonal Balance	0.415
Fine Contrast	0.018
Medium Contrast	0.038
Coarse Contrast	0.044
Multiscale Contrast Ratio	0.419
Edge Contrast	0.228
Contrast Clustering	0.195

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.692
Color Clustering	0.737
Color Transition Smoothness	0.407
Transition Uniformity	0.628
Sharp Transition Ratio	0.1
Transition Directionality	0.008
Mean Saturation	0.425
Saturation Variance	0.077
Low Saturation Ratio	0.351
Medium Saturation Ratio	0.459
High Saturation Ratio	0.19
Saturation Clustering	0.998
Hue Concentration	0.892
Complementary Balance	0.043
Analogous Dominance	0.956
Temperature Bias	0.914

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). The Dragon Breeder - Variation 1 - Catalogue Raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0443.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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