AQC0618

Nanopublication — Computational Image Analysis - AQC0618

by Arnaud Quercy · Promenade aux jardins du Luxembourg - Variation 4 · 2024

Claim 1: Computational Image Analysis - AQC0618

> Computational image analysis [3] of artwork Promenade [1] aux jardins du Luxembourg - Variation 4 (AQC0618) [2] by Arnaud Quercy [2] 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 2026-02-04.

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]: 1935x2580 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		E0D7CC	25.3	yellow-orange	lightgray
2		CBC7B4	17.8	yellow	silver
3		B1B39F	11.8	yellow-green	steel gray
4		E2A374	11.6	orange	darksalmon
5		394645	7.1	green	darkslategray
6		7C939F	7.0	blue	lightslategray
7		626C68	6.0	green	dimgray
8		99907B	4.8	yellow-orange	gray
9		181410	4.2	black	black
10		C09A33	4.2	yellow-orange	peru
11		9DB2C5	0.3	blue-violet	steel gray [Accent]

Color Families:

Family	%
yellow-orange	34.3
yellow	17.8
green	13.2
yellow-green	11.8
orange	11.6
blue	7.0
black	4.2
blue-violet	0.3

Accent Colors:

Hex	Family	Name	Chroma
9DB2C5	blue-violet	steel gray	12.4

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.21
Mean Local Roughness	0.026
Roughness Uniformity	0.025
Edge Density	0.125
Mean Gradient Magnitude	0.217
Gradient Variance	0.091
Gradient Smoothness	0.0
Directional Coherence	0.005
Pattern Complexity	0.12
Pattern Repetition	1.0
Detail Frequency Ratio	0.61
Spatial Variation	0.112
Texture Consistency	0.77

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.656
Brightness Variance	0.21
Brightness Uniformity	0.679
Brightness Skewness	-1.252
Brightness Entropy	7.314
Rms Contrast	0.21
Michelson Contrast	1.0
Weber Contrast	0.644
Mean Local Contrast	0.028
Contrast Uniformity	0.051
Dynamic Range	1.0
Effective Dynamic Range	0.675
Shadow Percentage	11.108
Midtone Percentage	26.671
Highlight Percentage	62.221
Shadow Clipping	0.072
Highlight Clipping	0.001
Tonal Balance	0.0
Fine Contrast	0.013
Medium Contrast	0.035
Coarse Contrast	0.058
Multiscale Contrast Ratio	0.232
Edge Contrast	0.217
Contrast Clustering	0.23

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.711
Color Clustering	0.697

Metric	Value
Color Transition Smoothness	0.448
Transition Uniformity	0.365
Sharp Transition Ratio	0.1
Transition Directionality	0.007
Mean Saturation	0.236
Saturation Variance	0.041
Low Saturation Ratio	0.714
Medium Saturation Ratio	0.25
High Saturation Ratio	0.036
Saturation Clustering	0.998
Hue Concentration	0.4
Complementary Balance	0.235
Analogous Dominance	0.682
Temperature Bias	0.295

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). Promenade aux jardins du Luxembourg - Variation 4 — Catalog raisonné. https://arnaudquercy.art/en/catalogue-raisonne/AQC0618.html

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2024/01/promenade-aux-jardins-du-luxembourg-variation-4_6wk.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

EPISTEMIC PROFILE

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

CHECKSUM (SHA-256)

`7fdeb6abd31b28f3b0fdcefabd6e46478b28571822e9f9ad345e8d4edf46b-d7b`

Artist	Arnaud Quercy
Date	2024
Collection	City of Lights, Shadows of Thoughts
Certificate	20240615-0114
Asset code	AQC0618
Version	1
Published	2026-04-09

Published by: Art Quam Anima Publishing New York LLC — publishing.artquamanima.com

Date of publication: 2026-04-09

Persistent URI: https://multimodal.institute/en/nanopubs/2026/02/AQC0618-computational-image-analysis-aqc0618.pdf