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API Collection

Normalization functions

Compute the mean and standard deviation of a vector and calculate new elements to have a zero mean and a unit standard deviation.

Topics

Normalization Functions

{ } Finding the sharpest image in a sequence of captured images

Share image data between vDSP and vImage to compute the sharpest image from a bracketed photo sequence.

vDSP_normalize

Computes single-precision mean and standard deviation, and then calculates new elements to have a zero mean and a unit standard deviation.

vDSP_normalizeD

Computes double-precision mean and standard deviation, and then calculates new elements to have a zero mean and a unit standard deviation.

See Also

Single-vector arithmetic functions

≡ Absolute and negation functions

Compute the absolute or negated value of each element in a vector.

≡ Integration functions

Compute the running sum, Simpson, or trapezoidal integration of a vector.

≡ Clipping, limit, and threshold operations

Apply clipping, limit, or threshold rules to the elements in a vector.

≡ Phase computation functions

Calculate the element-wise phase values, in radians, of a complex vector.

≡ Complex conjugation functions

Calculate the complex conjugate of the elements in a vector.

≡ Vector squaring functions

Compute the square, signed square, or squared magnitude of the elements in a vector.

≡ Fractional part extraction

Truncate the elements of a vector to a fraction.

≡ Zero crossing search

Count and find the zero crossings in a vector.