

Teresinha De Jesus

Music21

Original

TIV Euclidean 0.25

TIV Euclidean 0.5

TIV Euclidean 0.75

Original

TIV Cosine 0.25

TIV Cosine 0.5

TIV Cosine 0.75

The image displays a musical score for the piece 'Teresinha De Jesus'. It is organized into two systems of staves. The first system contains four staves: the original melody, followed by three TIV Euclidean transformations at 0.25, 0.5, and 0.75. The second system also contains four staves: the original melody, followed by three TIV Cosine transformations at 0.25, 0.5, and 0.75. All staves are in 3/4 time and use a treble clef. The original melody consists of six measures. The TIV transformations show how the melody's structure is altered by these specific transformations, with some notes being replaced by rests or other rhythmic values.

[illegible]

Teresinha De Jesus

Music21

Original

Metric 0.25

Metric 0.5

Metric 0.75

This block contains the first seven measures of the musical score for 'Teresinha De Jesus'. It is presented in four staves: 'Original', 'Metric 0.25', 'Metric 0.5', and 'Metric 0.75'. The key signature has one flat (Bb) and the time signature is 3/4. The 'Original' staff shows the melody with various note values and rests. The 'Metric 0.25' staff shows the melody with notes reduced to quarter notes or rests. The 'Metric 0.5' staff shows the melody with notes reduced to half notes or rests. The 'Metric 0.75' staff shows the melody with notes reduced to quarter notes or rests, similar to the original but with some simplifications.

8

Original

Metric 0.25

Metric 0.5

Metric 0.75

This block contains the eighth and ninth measures of the musical score for 'Teresinha De Jesus'. It is presented in four staves: 'Original', 'Metric 0.25', 'Metric 0.5', and 'Metric 0.75'. The key signature has one flat (Bb) and the time signature is 3/4. The 'Original' staff shows the melody with various note values and rests. The 'Metric 0.25' staff shows the melody with notes reduced to quarter notes or rests. The 'Metric 0.5' staff shows the melody with notes reduced to half notes or rests. The 'Metric 0.75' staff shows the melody with notes reduced to quarter notes or rests, similar to the original but with some simplifications.

Teresinha De Jesus

Music21

Original

Intervallic 0.25

Intervallic 0.5

Intervallic 0.75

The first system of the musical score for 'Teresinha De Jesus' consists of four staves. The top staff is the 'Original' melody in 3/4 time, starting with a whole rest followed by a half note G4, then a quarter note A4, and a half note B4. The second staff, 'Intervallic 0.25', shows the melody with intervals of 0.25, starting with a whole rest followed by a half note G4, then a quarter note A4, and a half note B4. The third staff, 'Intervallic 0.5', shows the melody with intervals of 0.5, starting with a whole rest followed by a half note G4, then a quarter note A4, and a half note B4. The fourth staff, 'Intervallic 0.75', shows the melody with intervals of 0.75, starting with a whole rest followed by a half note G4, then a quarter note A4, and a half note B4.

8

Original

Intervallic 0.25

Intervallic 0.5

Intervallic 0.75

The second system of the musical score for 'Teresinha De Jesus' consists of four staves. The top staff is the 'Original' melody in 3/4 time, starting with a whole rest followed by a half note G4, then a quarter note A4, and a half note B4. The second staff, 'Intervallic 0.25', shows the melody with intervals of 0.25, starting with a whole rest followed by a half note G4, then a quarter note A4, and a half note B4. The third staff, 'Intervallic 0.5', shows the melody with intervals of 0.5, starting with a whole rest followed by a half note G4, then a quarter note A4, and a half note B4. The fourth staff, 'Intervallic 0.75', shows the melody with intervals of 0.75, starting with a whole rest followed by a half note G4, then a quarter note A4, and a half note B4.

Teresinha De Jesus

Music21

Original

All Euclidean 0.25

All Euclidean 0.5

All Euclidean 0.75

Original

All Cosine 0.25

All Cosine 0.5

All Cosine 0.75

The image displays a musical score for the hymn 'Teresinha De Jesus' in 3/4 time. It consists of two systems of staves. The first system contains four staves: the original melody, followed by three variations generated using the 'All Euclidean' algorithm with parameters 0.25, 0.5, and 0.75. The second system also contains four staves: the original melody, followed by three variations generated using the 'All Cosine' algorithm with parameters 0.25, 0.5, and 0.75. The original melody is written in treble clef with a key signature of one flat (B-flat). The variations show how the rhythmic and melodic structure of the original is transformed by these algorithms. The Euclidean variations tend to preserve the overall pitch contour while altering the rhythmic patterns, while the Cosine variations show more significant changes in both pitch and rhythm.

Figure 1 displays a musical score for the song "The Sound of Silence" by Simon & Garfunkel. The score is presented in two systems, each containing five staves. The first system shows the original melody (labeled "Original") and three reconstructed versions using the Euclidean algorithm (labeled "All Euclidean 0.25", "All Euclidean 0.5", and "All Euclidean 0.75"). The second system shows the original melody and three reconstructed versions using the Cosine algorithm (labeled "All Cosine 0.25", "All Cosine 0.5", and "All Cosine 0.75"). The original melody is in G major, 4/4 time, and consists of three measures. The reconstructed versions show how the Euclidean and Cosine algorithms approximate the original melody using different parameters (0.25, 0.5, and 0.75). The Euclidean algorithm generally produces more accurate reconstructions than the Cosine algorithm, especially for the 0.25 and 0.5 parameters.