

IMPROVING YOUR COVER KOREA DANCE

LET'S GO!

1 INPUT YOUR DANCE

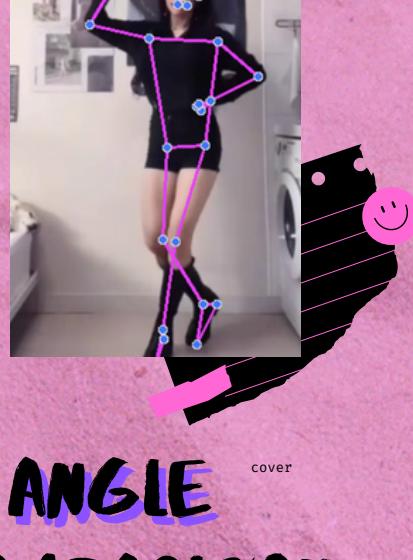


User's Live camera
and Choose Original Song

STREAM NOW



2 POSE ESTIMATION



Detect Human Pose Using
"BLAZEPOSE" To Get
Keypoints Feature

MediaPipe



3 ANGLE COMPARISON

- CALCULATE THE ANGLE OF 9 JOINTS FROM 13 KEY POINTS
- CALCULATE THRESHOLD OF JOINT ANGLE FROM 3 VIDEOS
- THEN COMPARE ANGLE DIFFERENT BETWEEN THE ORIGINAL AND COVER DANCER

4 RESULT AND IMPROVE!!



- SHOW "SIMILARITY" DANCE SCORE
- SHOW RED CIRCLE ON JOINT ANGLE THAT EXCESS THRESHOLD AND SAVE TO FILE

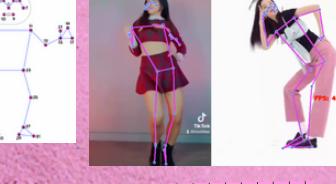
HUMAN POSE COMPARISON

Data Set



ORIGINAL DANCER and TIKTOK DANCE CHALLENGE VIDEO

Blazepose
Original and Cover Dancer



$$\text{Diff} = \text{AngleNose2} - \text{AngleNose1}$$

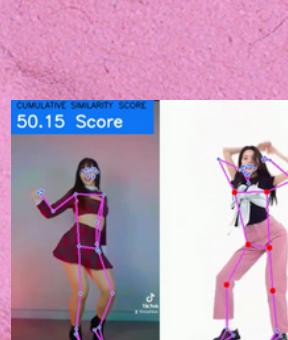
Angle Comparison (Threshold points)

Min , Max = Mean (+,-) SD
SD from Original and Excellent Cover Dancer

Joints Area (SD):

- Nose
- Left Elbow
- Right Elbow
- Left Shoulder
- Right Shoulder
- Left Hip
- Right Hip
- Left Knee
- Right Knee

CUMULATIVE SIMILARITY SCORE
50.15 Score



Ruetinian Hanprasopwat

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Anuwat Malinee

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Rakchanok Thongkumpan

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Jaksawat Boonarak

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Varattaya Rojanarachneekorn

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K P POP