

Table of result comparison for energy level estimation

Note: The Optimized_Block_Motion_Analysis is moved out since it is taking an average of 30mins per short video!

| Result for Enhanced_Multi_Feature_Method | Result for Hybrid_Optical_Flow method |
|--|---|
| <div>Final Timing Analysis: ----- Start time: 2025-02-15 19:03:35 End time: 2025-02-15 19:19:58 Total processing time: 16.39 minutes Total videos processed: 68 Average time per video: 14.46 seconds Results of the Analysis: ----- Accuracy: 0.632 (63.2%) Confusion Matrix: [[4 3 8] # True Column 1 [0 5 13] # True Column 2 [0 1 34]] # True Column 3 Detailed Analysis: Total samples: 68 Correct predictions: 43 Incorrect predictions: 25 Per-Class Metrics: Column 1: - Accuracy: 0.838 (83.8%) - True instances: 15 - Predicted instances: 4 Column 2: - Accuracy: 0.750 (75.0%) - True instances: 18 - Predicted instances: 9 Column 3: - Accuracy: 0.676 (67.6%) - True instances: 35 - Predicted instances: 55</div> | <div>Final Timing Analysis: ----- Start time: 2025-02-15 22:08:52 End time: 2025-02-15 22:25:32 Total processing time: 16.66 minutes Total videos processed: 68 Average time per video: 14.70 seconds Energy Level Summary: =====</div> <div>LOW: 4 videos (5.9%) MEDIUM: 11 videos (16.2%) HIGH: 53 videos (77.9%)</div> <div>Results of the Analysis: ----- Accuracy: 0.441 Confusion Matrix: [[2 4 9] [3 0 15] [0 7 28]] Detailed Analysis: Total samples: 68 Correct predictions: 30 Incorrect predictions: 38 Column 1: Accuracy: 0.765 True instances: 15 Predicted instances: 5 Column 2: Accuracy: 0.574 True instances: 18 Predicted instances: 11 Column 3: Accuracy: 0.544 True instances: 35 Predicted instances: 52</div> |