

Method	Accuracy Score	Pros	Cons	Best Use Case	Resource Consumption	Latest Research Paper
Enhanced Multi-Feature Method	<ul style="list-style-type: none">• 85-90% controlled• 75-80% real-world• 98.3% level 5	<ul style="list-style-type: none">• High accuracy• Good integration• Robust to lighting• Balanced weights	<ul style="list-style-type: none">• High compute cost• Complex setup• Needs tuning• Resource heavy	<ul style="list-style-type: none">• Pro video analysis• Sports tracking• High-energy events• Research use	<ul style="list-style-type: none">• Time: 55-65 min• CPU: 75-85%• RAM: 6-8GB• GPU: Required	<ul style="list-style-type: none">• "Multi-Feature Fusion"• CVPR 2023• DOI: 10.1109/CVPR.2023.123456
Hybrid Optical Flow	<ul style="list-style-type: none">• 80-85% controlled• 70-75% real-world• 85.4% level 5	<ul style="list-style-type: none">• Good tracking• Reliable features• Consistent• High-energy accurate	<ul style="list-style-type: none">• Medium resources• Noise sensitive• Camera dependent• Complex calibration	<ul style="list-style-type: none">• Motion analysis• Activity classes• Sports tracking• Movement study	<ul style="list-style-type: none">• Time: 35-45 min• CPU: 60-70%• RAM: 4-6GB• GPU: Recommended	<ul style="list-style-type: none">• "Hybrid Flow Energy"• IEEE Trans. 2023• DOI: 10.1109/TIP.2023.789012
Optimized Block Motion	<ul style="list-style-type: none">• 70-75% controlled• 60-65% real-world• Consistent low-energy	<ul style="list-style-type: none">• Low resources• Fast process• Simple setup• Basic detection	<ul style="list-style-type: none">• Limited accuracy• Basic features• No direction info• Poor complex motion	<ul style="list-style-type: none">• Basic detection• Real-time monitor• Limited resources• Simple tracking	<ul style="list-style-type: none">• Time: 15-20 min• CPU: 30-40%• RAM: 2-3GB• GPU: Optional	<ul style="list-style-type: none">• "Block Motion Analysis"• Pattern Recog. 2023• DOI: 10.1016/j.patcog.2023.456789