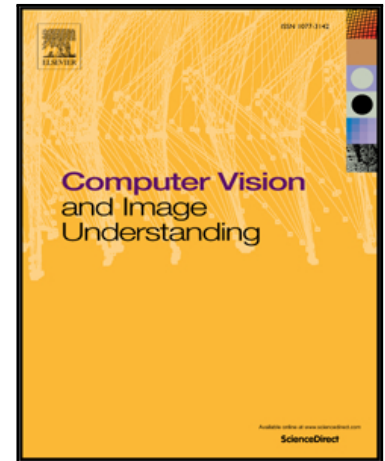


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Real-time Gymnast Detection and Performance Analysis with a Portable 3D Camera

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Highlights

- An automated system to analyze pommel horse moves using depth imagery is developed.
- Kinect data is automatically segmented to identify depths of interest.
- A new activity recognition for silhouettes is proposed.
- A real-world application is developed and is currently in use by gymnastics coaches.

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