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## CVGIP: Graphical Models and Image Processing

Volume 54, Issue 5, September 1992, Pages 438-460

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### A survey of moment-based techniques for unoccluded object representation and recognition

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#### Abstract

The recognition of objects from imagery in a manner that is independent of scale, position and orientation may be achieved by characterizing an object with a set of extracted invariant features. Several different recognition techniques have been demonstrated that utilize moments to generate such invariant features. These techniques are derived from general moment theory which is widely used throughout statistics and mechanics. In this paper, basic Cartesian moment theory is reviewed and its application to object recognition and image analysis is presented. The geometric properties of low-order moments are discussed along with the definition of several moment-space linear geometric transforms. Finally, significant research in moment-based object recognition is reviewed.

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Sparse representation for computer vision and pattern recognition,

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