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**A STUDY OF TRACKING-CUM-FUSION OF IMAGE CENTROID USING SRIF AND
SRVD ALGORITHMS**

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ABSTRACT

Image-centroid tracking-cum-fusion employing SRIF and SRVD algorithms are the subject of parametric investigations in this chapter, with findings on performance being discussed as well. The application may be the first time that both methods have been utilized together. Tracking two pictures using SRIF and the square root eigen factor (SRVD) filter, centroids of the two images may be directly fused together. In the last chapter, we looked at the SRIF algorithm. An image-centroid tracking and fusion technique based on singular value decomposition (SRVD) is proposed. The use of an SVD-based algorithm might be advantageous in large-scale multi-dimensional fusion processing systems where the eigen factors must be continuously monitored in order to uncover singularities that may develop during algorithm execution.