

Shape-based image retrieval using a new descriptor based on the Radon and wavelet transforms

N. Nacereddine, S. Tabbone, D. Ziou, L. Hamami

Abstract : In this paper, the Radon transform is used to design a new descriptor called Phi-signature invariant to usual geometric transformations. Experiments show the effectiveness of the multilevel representation of the descriptor built from Phi-signature and R-signature.

Keywords : radon transform, Phi-signature; R-signature, Wavelet transform