



## A 1d Spectral Image Validation/Verification Metric for Fingerprints

By NIST

Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 54 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. Image validation and verification are important functions in the acquisition of fingerprint images from live-scan devices and for assessing and maintaining the fidelity of fingerprint image databases. In addition to law enforcement, such databases are used by NIST and others to test automated fingerprint identification system (AFIS) algorithms and to aide the advance of this technology. Image screening by visual inspection is time consuming. We propose a computational mechanism by which to screen fingerprint image databases for specimens improperly scanned from fingerprint cards, guide the auto-capture process and flag auto-capture failures, identify non-fingerprint images that may have been included in a database, and recognize aberrant sampling of fingerprint images. The scheme reduces an input image to a 1-dimensional power spectrum that makes explicit the characteristic ridge structure of the fingerprint that on a global basis differentiates it from most other images. The magnitude of the distinctive spectral feature, related directly to the distinctness of the level 1 ridge flow, provides a primary diagnostic indicator of the presence of a fingerprint image. The frequency of the spectral feature provides a secondary classification...



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