# A 1d Spectral Image ValidationVerification Metric for Fingerprints

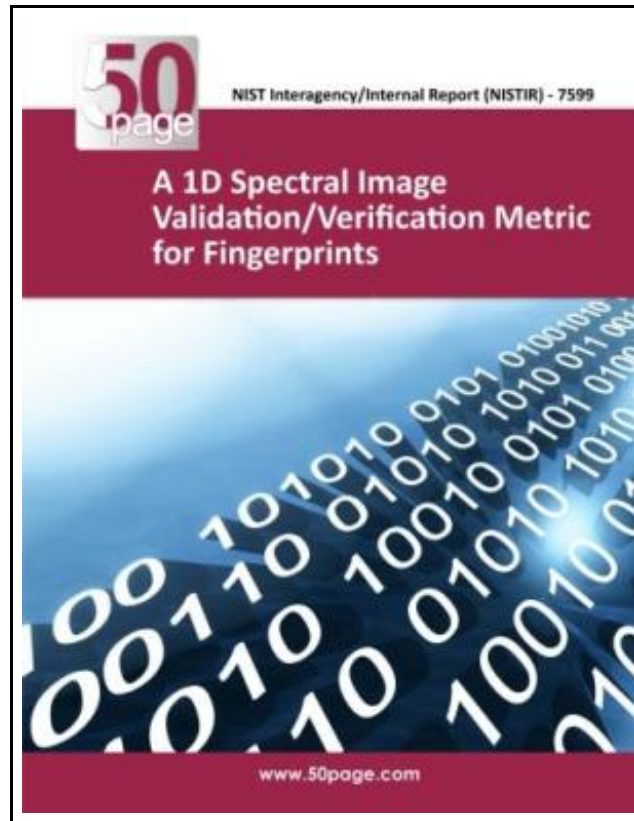NIST Interagency/Internal Report (NISTIR) - 7599

**A 1D Spectral Image Validation/Verification Metric for Fingerprints**

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# A 1D SPECTRAL IMAGE VALIDATIONVERIFICATION METRIC FOR FINGERPRINTS



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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 metric and, on a coarse level, indicates the scan sample rate of the fingerprint image. Test results are reported in which the Spectral Image Validation and Verification (SIVV) utility is applied to a variety of databases composed of fingerprint and non-fingerprint images. An equal error rate (EER) for false positive and false negative classifications of 10 is achieved for fingerprints mixed with a variety of non-fingerprint images and an EER of around 7 is found with a dataset containing fingerprints mixed with other biometric samples, i. e. face and iris images. This item ships from La Vergne,TN. Paperback.



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