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Partial Fingerprint Matching Using Minutiae and Ridge Shape Features for Small Fingerprint Scanners

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HIGHLIGHTS:

- New partial fingerprint-matching for small sensors in mobile devices is proposed
- The method incorporates new ridge shape features (RSFs) in addition to minutiae
- RSFs represent small ridge segments where specific edge shapes are observed
- These edge shapes are detectable in conventional 500 dpi images of small sensors

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