

A REVIEW REPORT ON FINGERPRINT IMAGE ENHANCEMENT FILTER

DINESH KUMAR MISRA¹, S. P. TRIPATHI² & DIPAK MISRA³

¹Ph.D, Research Scholar, COE, TMU, Moradabad, Uttar Pradesh, India

²Professor & Head, CSE Department, GBTU, Lucknow, Uttar Pradesh, India

³Scholar, EC Department, VIT University, Vellore, Tamil Nadu, India

ABSTRACT

This research aims to study different kind of filter applied for fingerprint image enhancement. The fingerprint images which are obtained from sensors, scanning or imaging devices may be dirty, ink blurred or infected during acquisition process. The quality of a fingerprint image directly affects the performance of feature extraction and recognition system, so it is necessary to enhance fingerprint image by some method. Enhancement techniques are so varied, and use so many different image processing approaches, that it is difficult to assemble a meaningful body of techniques suitable for enhancement without extensive background development. For this reason an attempt is made to bring review on fingerprint enhancement filters and algorithms in this paper.

KEYWORDS: Fingerprint Image, Imaging Device, Gray-Scale Image, Ridge and Valley, Filters, Image Processing, Fuzzy Filter, Enhancement Algorithm