



Pattern Recognition and Image Analysis (PRIA) research group at IIT Indore is primarily engaged in addressing research problems related to biometric recognition. With the development of high-resolution fingerprint scanners, high-resolution fingerprint-based biometric recognition has received increasing attention. Level-3 fingerprint features, which include very fine details such as pores, are generally observable in fingerprint images having a resolution greater than 800 dpi. Pore features have been found to be effective for fingerprint recognition. Accurate detection of pores is crucial for biometric recognition using high-resolution fingerprints. Recently, we have developed a deep convolutional neural network based method for detecting pore coordinates in high-resolution fingerprint images. The figure shows a sample fingerprint image (left) and the detected pores indicated by green dots overlaid on the fingerprint image (right).