

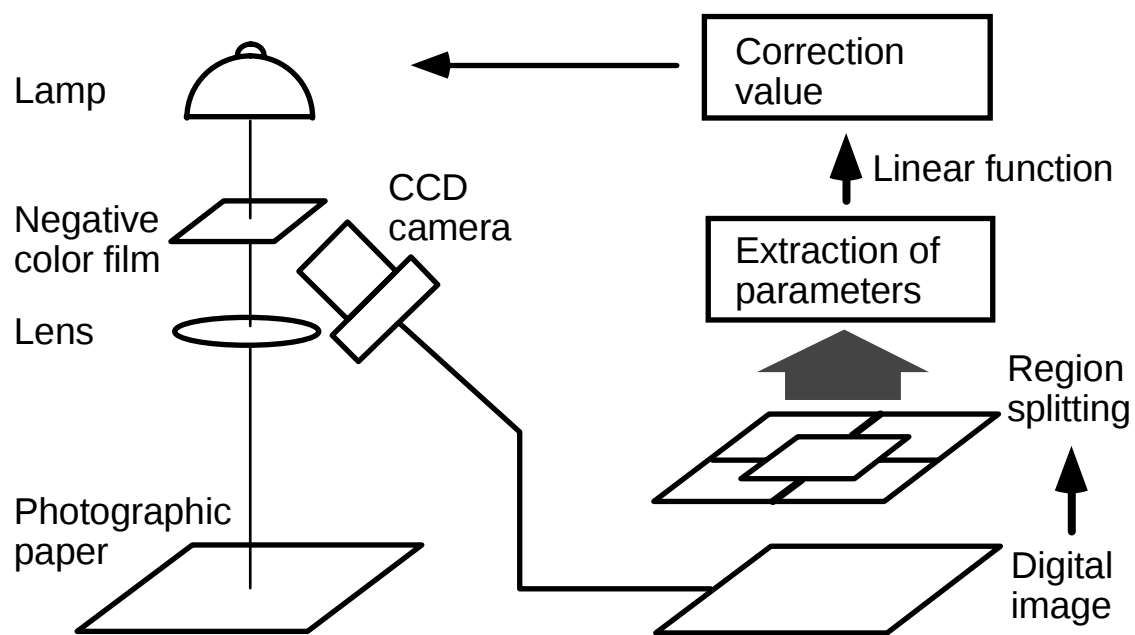


Fig. 1 Schematic diagram of automatic density correction

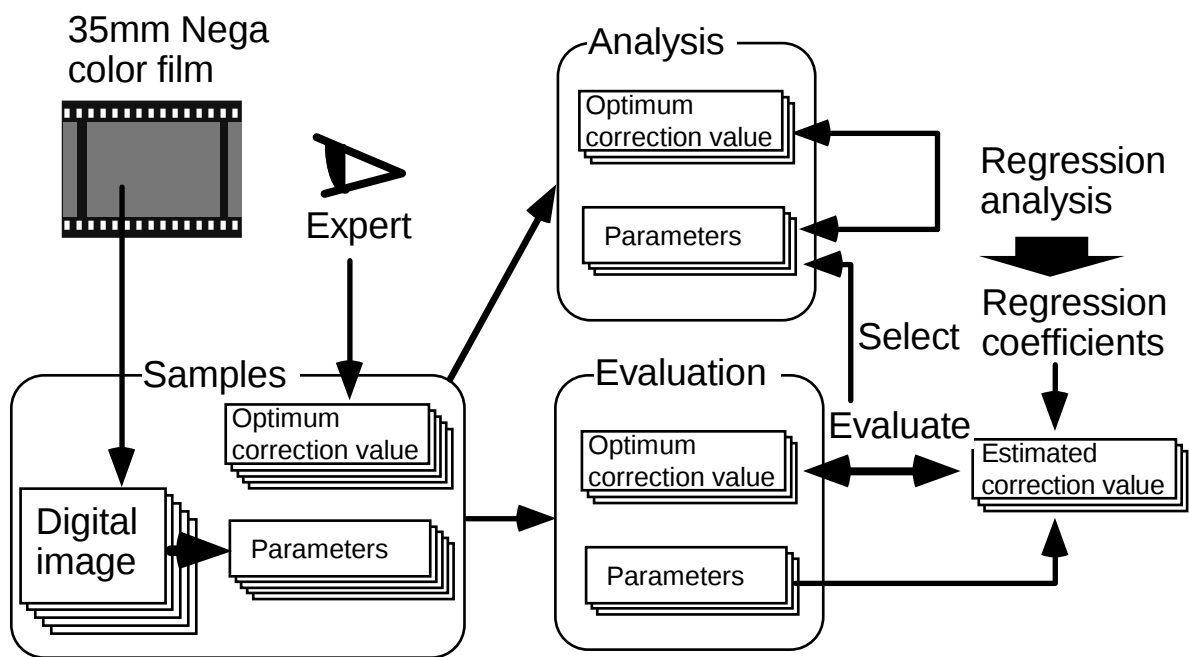
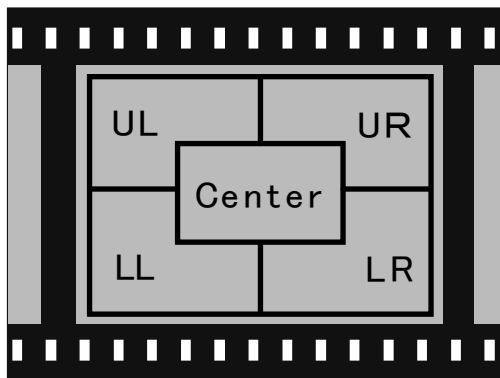
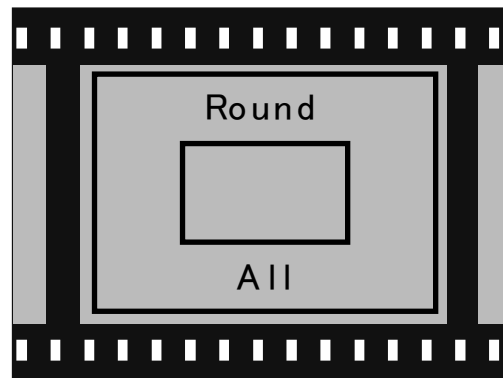


Fig. 2 Development of algorithm for automatic density correction



UL: Upper left, UR: Upper right
 LL: Lower left, LR: Lower right

(a)



(b)

Fig. 3 Fixed region considered in this paper

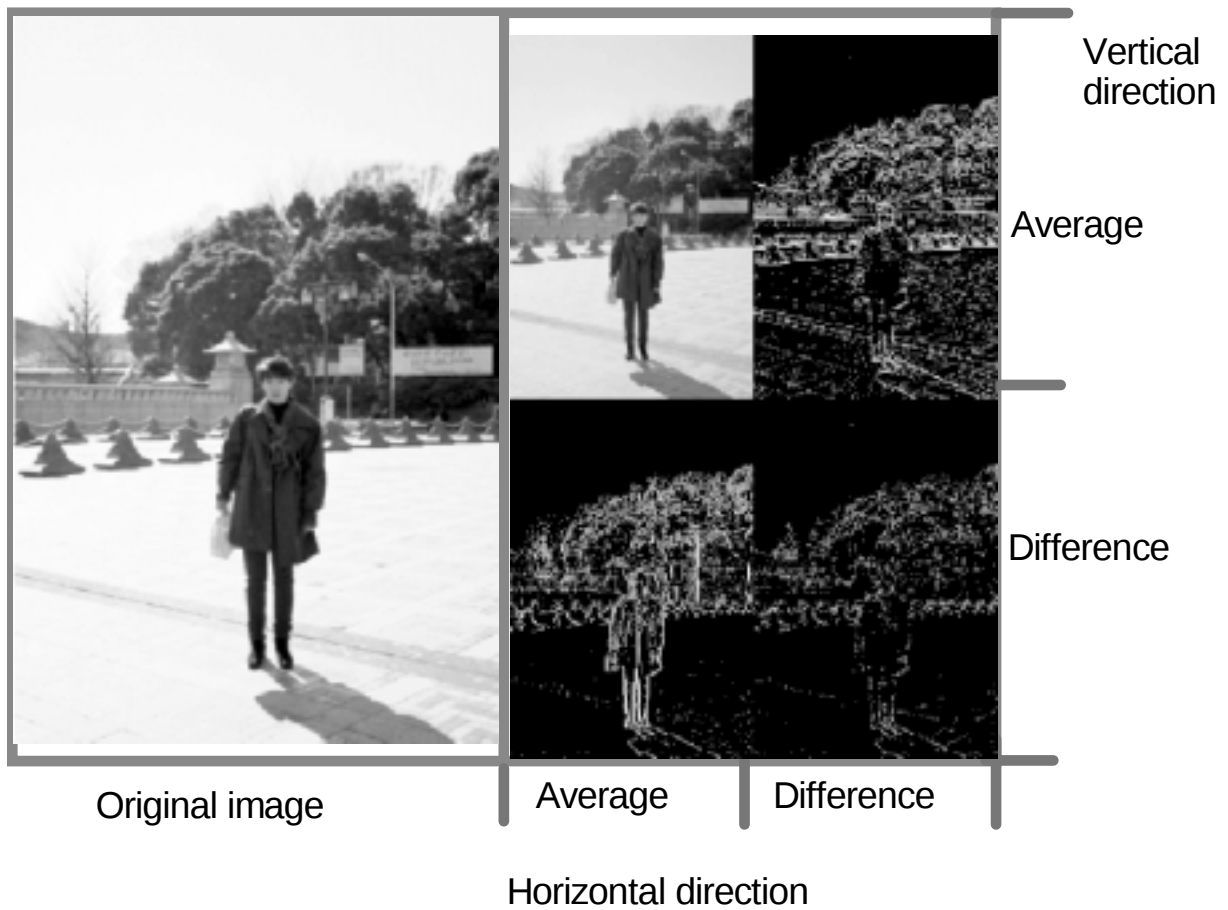


Fig. 4 Multi-resolutional image decomposition: First step



(a) Binary image



(b) Eroded and dilated image

Fig. 5 Extraction of complex region

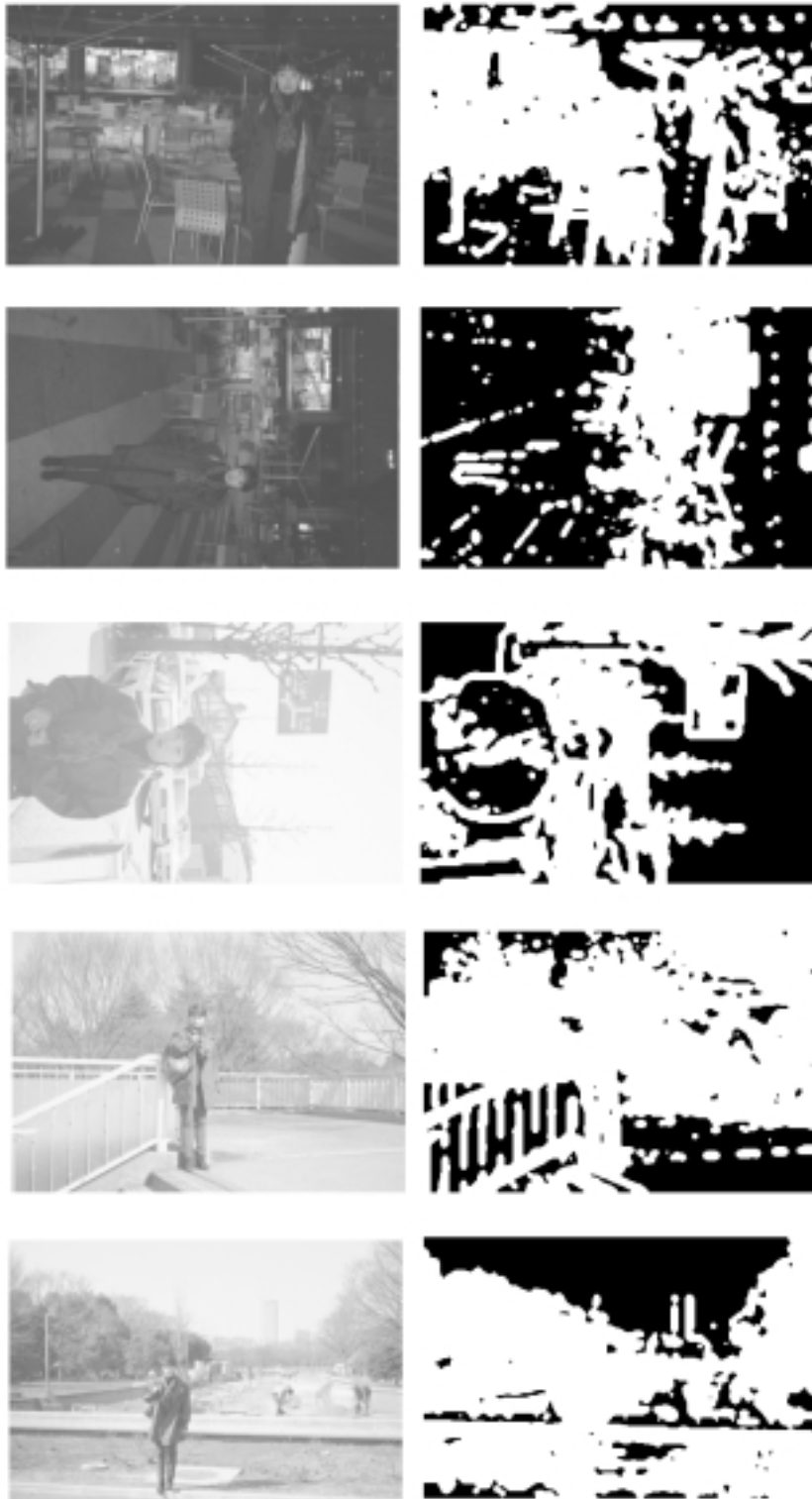


Fig. 6 Sample scenes whose density is corrected effectively by proposed image manipulation method, and their segmented images

