Title (en)

AUTOMATIC PRINT QUALITY ASSESSMENT AND ADJUSTMENT OF A PRINTER

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0115546A1] A computer-controlled method for automatically determining the respective value of the print quality of a printer and for adjusting said print quality towards an optimum value DQopt using the empirically determined average optimum image contrast signal (PCS) as well as the standard deviation sigma of PCS which results from the equation <IMAGE> where RB = reflection of the background and Ri = reflection of an image element i or point i (PEL). The method is characterised in that by optoelectronic scanning of all image elements i of a character along the skeleton line and the background, the actual value of the image contrast signal is formed from the individual values <IMAGE> for all n image elements and, from these n scanning values, a factor <IMAGE> is derived and a print quality factor <IMAGE> and from it 1n x2 is formed, in that subsequently the actual value of print quality DQ = a0 + a1 1n x2 is determined from that value, and in that by iterative automatic comparison between the stored optimum value DQopt of the print quality and the value determined for the print quality in a closed control loop, the control factors for readjusting the different parameters of the printer are derived and used.

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