QUALITY ASSESSMENT OF JPEG COMPRESSED IMAGES

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Abstract: *The growing use of digital photo camera has influenced the development of different types of digital image files. Digital cameras and the users mostly use JPEG format. In this case quality stands for the accurate reproduction of the photographed element.*
In former times the quality of a photograph depended on the quality of the negative film and the photographic paper. Today, for most users, it depends on the sensor of the photo camera, type of file used and the print quality.
JPEG format uses certain amount of compression which influences the file size and the image quality. This paper investigates the existence of the relationship between the subjective estimation and the objective results of different JPEG compression levels. The aim of this investigation is to determine the optimal compression level, at which the quality loss is not perceivable.

Key words: *JPEG compression, spectrophotometer, quality control, subjective estimation*

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This Publication has to be referred as: Milcic, D[iana]; Donevski, D[avor] & Bota, J[osip] (2009). Quality Assessment of JPEG Compressed Images, Chapter 14 in DAAAM International Scientific Book 2009, pp. 127-134, B. Katalinic (Ed.), Published by DAAAM International, ISBN 978-3-901509-69-8, ISSN 1726-9687, Vienna, Austria
DOI: 10.2507/daaam.scibook.2009.14