

A Low-Complexity Metric for the Estimation of Perceived Chrominance Sub-Sampling Errors in Screen Content Images

Andreas Heindel, Eugen Wige, Felix Fleckenstein, Benjamin Prestele, Alexander Gehlert, and André Kaup

Multimedia Communications and Signal Processing Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Cauerstr. 7, 91058 Erlangen, Germany

- Absolute Category Rating (ACR)
- Focus on text quality, disregarding color difference
- Averaged rating per image:



Performance metrics:

- Root Mean Squared Error (RMSE)

	MSE	PSNR	S
PLCC	-0.3995	0.4642	0.
SROCC	-0.5202	0.5116	0.
RMSE	0.8730	0.8422	0.

No significant performance changes by ...

- alternative filter kernels for the gradient computation
- different weightings of the luminance and the chrominance components