

Bibliography

- [1] *Visible differences predictor: an algorithm for the assessment of image fidelity*, volume 1666, 1992. doi: 10.1117/12.135952. URL <https://doi.org/10.1117/12.135952>.
- [2] A. O. Akyuz. *Optimizing the High Dynamic Range Imaging Pipeline*. PhD thesis, School of Electrical Engineering and Computer Science, Orlando, FL, USA, 2007. AAI3302895.
- [3] A. Artusi, F. Banterle, K. Debattista, and A. Chalmers. *Advanced high dynamic range imaging: theory and practice*. AK Peters/CRC Press, 2011. ISBN 9781439865941.
- [4] A. Artusi, T. Richter, T. Ebrahimi, and R. K. Mantiuk. High dynamic range imaging technology [lecture notes]. *IEEE Signal Processing Magazine*, 34(5): 165–172, Sept 2017. ISSN 1053-5888. doi: 10.1109/MSP.2017.2716957.
- [5] T. O. Aydin, R. Mantiuk, K. Myszkowski, and H.-P. Seidel. Dynamic range independent image quality assessment. *ACM Trans. Graph.*, 27(3):69:1–69:10, Aug. 2008. ISSN 0730-0301. doi: 10.1145/1360612.1360668. URL <http://doi.acm.org/10.1145/1360612.1360668>.
- [6] T. O. Aydin, R. Mantiuk, and H.-P. Seidel. Extending quality metrics to full luminance range images. In B. E. Rogowitz and T. N. Pappas, editors, *Human Vision and Electronic Imaging XIII*. SPIE, feb 2008. doi: 10.1117/12.765095.
- [7] A. Banitalebi-Dehkordi, Y. Dong, M. T. Pourazad, and P. Nasiopoulos. A learning-based visual saliency fusion model for High Dynamic Range video (LBVS-HDR). In *2015 23rd European Signal Processing Conference (EUSIPCO)*. IEEE, aug 2015. doi: 10.1109/eusipco.2015.7362642.
- [8] F. Banterle, K. Debattista, A. Artusi, S. Pattanaik, K. Myszkowski, P. Ledda, and A. Chalmers. High dynamic range imaging and low dynamic range expansion for generating HDR content. *Computer Graphics Forum*, 28(8): 2343–2367, 2009.

- [9] R. Boitard, M. T. Pourazad, P. Nasiopoulos, and J. Slevinsky. Demystifying high-dynamic-range technology: A new evolution in digital media. *IEEE Consumer Electronics Magazine*, 4(4):72–86, Oct 2015. ISSN 2162-2248. doi: 10.1109/MCE.2015.2463294.
- [10] S. Bosse, D. Maniry, T. Wiegand, and W. Samek. A deep neural network for image quality assessment. In *2016 IEEE International Conference on Image Processing (ICIP)*. IEEE, sep 2016. doi: 10.1109/icip.2016.7533065.
- [11] X. Cerda-Company, C. A. Parraga, and X. Otazu. Which tone-mapping operator is the best? a comparative study of perceptual quality. *Journal of the Optical Society of America A*, 35(4):626, mar 2018. doi: 10.1364/josaa.35.000626.
- [12] D. M. Chandler. Most apparent distortion: full-reference image quality assessment and the role of strategy. *Journal of Electronic Imaging*, 19(1): 011006, jan 2010. doi: 10.1117/1.3267105.
- [13] F. Durand and J. Dorsey. Interactive Tone Mapping. In *Eurographics*, pages 219–230. Springer Vienna, 2000. doi: 10.1007/978-3-7091-6303-0_20.
- [14] G. Eilertsen, R. K. Mantiuk, and J. Unger. Real-time noise-aware tone mapping. *ACM Trans. Graph.*, 34(6):198:1–198:15, Oct. 2015. ISSN 0730-0301. doi: 10.1145/2816795.2818092. URL <http://doi.acm.org/10.1145/2816795.2818092>.
- [15] G. Eilertsen, R. K. Mantiuk, and J. Unger. A comparative review of tone-mapping algorithms for high dynamic range video. In *Computer Graphics Forum*, volume 36, pages 565–592. Wiley Online Library, 2017.
- [16] D. El Mezeni and L. Saranovac. Temporal adaptation control for local tone mapping operator. *Journal of Electrical Engineering*, 69(4):261–269, 2018.
- [17] P. G. Engeldrum. A theory of image quality: The image quality circle. *Journal of imaging science and technology*, 48(5):447–457, 2004.
- [18] R. Fattal, D. Lischinski, and M. Werman. Gradient domain high dynamic range compression. *ACM Transactions on Graphics*, 21(3), jul 2002. doi: 10.1145/566654.566573.
- [19] J. A. Ferwerda, S. N. Pattanaik, P. Shirley, and D. P. Greenberg. A model of visual adaptation for realistic image synthesis. In *Proceedings of the*

- 23rd Annual Conference on Computer Graphics and Interactive Techniques, SIGGRAPH '96*, pages 249–258, New York, NY, USA, 1996. ACM. ISBN 0-89791-746-4. doi: 10.1145/237170.237262. URL <http://doi.acm.org/10.1145/237170.237262>.
- [20] F. Guan, G. Jiang, Y. Song, M. Yu, Z. Peng, and F. Chen. No-reference high-dynamic-range image quality assessment based on tensor decomposition and manifold learning. *Appl. Opt.*, 57(4):839–848, Feb 2018. doi: 10.1364/AO.57.000839. URL <http://ao.osa.org/abstract.cfm?URI=ao-57-4-839>.
- [21] I. P. Gunawan. *Reduced-reference impairment metrics for digitally compressed video*. PhD thesis, University of Essex, 2006.
- [22] Guoping Qiu, Jian Guan, Jian Duan, and Min Chen. Tone mapping for hdr image using optimization a new closed form solution. In *18th International Conference on Pattern Recognition (ICPR'06)*, volume 1, pages 996–999, Aug 2006. doi: 10.1109/ICPR.2006.1125.
- [23] P. Hanhart, M. V. Bernardo, M. Pereira, A. M. G. Pinheiro, and T. Ebrahimi. Benchmarking of objective quality metrics for hdr image quality assessment. *EURASIP Journal on Image and Video Processing*, 2015(1):39, Dec 2015. ISSN 1687-5281. doi: 10.1186/s13640-015-0091-4. URL <https://doi.org/10.1186/s13640-015-0091-4>.
- [24] S. Jia, Y. Zhang, D. Agrafiotis, and D. Bull. Blind high dynamic range image quality assessment using deep learning. In *2017 IEEE International Conference on Image Processing (ICIP)*, pages 765–769, Sept 2017. doi: 10.1109/ICIP.2017.8296384.
- [25] L. Kang, P. Ye, Y. Li, and D. Doermann. Convolutional Neural Networks for No-Reference Image Quality Assessment. In *2014 IEEE Conference on Computer Vision and Pattern Recognition*. IEEE, jun 2014. doi: 10.1109/cvpr.2014.224.
- [26] L. Kang, P. Ye, Y. Li, and D. Doermann. Simultaneous estimation of image quality and distortion via multi-task convolutional neural networks. In *2015 IEEE International Conference on Image Processing (ICIP)*. IEEE, sep 2015. doi: 10.1109/icip.2015.7351311.
- [27] D. Kundu, D. Ghadiyaram, A. C. Bovik, and B. L. Evans. No-reference quality assessment of tone-mapped hdr pictures. *IEEE Transactions on*

Image Processing, 26(6):2957–2971, June 2017. ISSN 1057-7149. doi: 10.1109/TIP.2017.2685941.

- [28] G. W. Larson, H. Rushmeier, and C. Piatko. A visibility matching tone reproduction operator for high dynamic range scenes. *IEEE Transactions on Visualization and Computer Graphics*, 3(4):291–306, 1997.
- [29] R. Mantiuk, S. J. Daly, K. Myszkowski, and H.-P. Seidel. Predicting visible differences in high dynamic range images: model and its calibration. In *Human Vision and Electronic Imaging X*, volume 5666, pages 204–215. International Society for Optics and Photonics, 2005.
- [30] R. Mantiuk, K. Myszkowski, and H.-P. Seidel. A perceptual framework for contrast processing of high dynamic range images. *ACM Transactions on Applied Perception (TAP)*, 3(3):286–308, 2006.
- [31] R. Mantiuk, K. J. Kim, A. G. Rempel, and W. Heidrich. Hdr-vdp-2: A calibrated visual metric for visibility and quality predictions in all luminance conditions. *ACM Trans. Graph.*, 30(4):40:1–40:14, July 2011. ISSN 0730-0301. doi: 10.1145/2010324.1964935. URL <http://doi.acm.org/10.1145/2010324.1964935>.
- [32] P. Mohammadi, A. Ebrahimi-Moghadam, and S. Shirani. Subjective and objective quality assessment of image: A survey. *arXiv preprint arXiv:1406.7799*, 2014.
- [33] M. Narwaria, M. P. Da Silva, and P. Le Callet. Hdr-vqm: An objective quality measure for high dynamic range video. *Signal Processing: Image Communication*, 35:46–60, 2015.
- [34] S. B. Patil and S. R. Patil. Survey on approaches used for image quality assessment. In *2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS)*, pages 987–991, Aug 2017. doi: 10.1109/ICECDS.2017.8389585.
- [35] M. Persson. Subjective Image Quality Evaluation Using the Softcopy Quality Ruler Method. *Master's Theses in Mathematical Sciences*, 2014.
- [36] K. M. Rafał K. Mantiuk and H.-P. Seidel. High dynamic range imaging. *Wiley Encyclopedia of Electrical and Electronics Engineering*, 2016. URL https://www.cl.cam.ac.uk/~rkm38/hdri_book.html.

- [37] A. Rana, G. Valenzise, and F. Dufaux. Learning-based tone mapping operator for efficient image matching. *IEEE Transactions on Multimedia*, 21(1):256–268, Jan 2019. ISSN 1520-9210. doi: 10.1109/TMM.2018.2839885.
- [38] E. Reinhard, M. Stark, P. Shirley, and J. Ferwerda. Photographic tone reproduction for digital images. *ACM Trans. Graph.*, 21(3):267–276, July 2002. ISSN 0730-0301. doi: 10.1145/566654.566575. URL <http://doi.acm.org/10.1145/566654.566575>.
- [39] E. Reinhard, W. Heidrich, P. Debevec, S. Pattanaik, G. Ward, and K. Myszkowski. *High dynamic range imaging: acquisition, display, and image-based lighting*. Morgan Kaufmann, 2010.
- [40] H. J. Seo and P. Milanfar. Static and space-time visual saliency detection by self-resemblance. *Journal of Vision*, 9(12):15–15, nov 2009. doi: 10.1167/9.12.15.
- [41] B. Series. Methodology for the subjective assessment of the quality of television pictures. *Recommendation ITU-R BT*, 2002.
- [42] H. Sheikh and A. Bovik. Image information and visual quality. *IEEE Transactions on Image Processing*, 15(2):430–444, feb 2006. doi: 10.1109/tip.2005.859378.
- [43] K. Simonyan and A. Zisserman. Very deep convolutional networks for large-scale image recognition. *International Conference on Learning Representations 2015*, 2014.
- [44] K. Thung and P. Raveendran. A survey of image quality measures. In *2009 International Conference for Technical Postgraduates (TECHPOS)*, pages 1–4, Dec 2009. doi: 10.1109/TECHPOS.2009.5412098.
- [45] J. Tumblin and H. Rushmeier. Tone reproduction for realistic images. *IEEE Computer Graphics and Applications*, 13(6):42–48, nov 1993. doi: 10.1109/38.252554.
- [46] VQEG. *Final report from the Video Quality Expert Group on the validation of objective models of video quality assessment – Phase I*. VQEG, Mar. 2000. URL <http://www.vqeg.org>.
- [47] VQEG. *RRNR-TV Group Test Plan Draft Version 1.7h*, June 2004. URL <http://www.vqeg.org>.

- [48] Z. Wang, H. R. Sheikh, A. C. Bovik, et al. Objective video quality assessment. *The handbook of video databases: design and applications*, 41:1041–1078, 2003.
- [49] Z. Wang, E. P. Simoncelli, and A. C. Bovik. Multiscale structural similarity for image quality assessment. In *The Thrity-Seventh Asilomar Conference on Signals, Systems Computers, 2003*, volume 2, pages 1398–1402 Vol.2, Nov 2003. doi: 10.1109/ACSSC.2003.1292216.
- [50] P. Ye, J. Kumar, L. Kang, and D. Doermann. Unsupervised feature learning framework for no-reference image quality assessment. In *2012 IEEE Conference on Computer Vision and Pattern Recognition*. IEEE, jun 2012. doi: 10.1109/cvpr.2012.6247789.
- [51] H. Yeganeh and Z. Wang. Objective assessment of tone mapping algorithms. In *2010 IEEE International Conference on Image Processing*, pages 2477–2480, Sept 2010. doi: 10.1109/ICIP.2010.5651778.
- [52] H. Yeganeh and Z. Wang. Objective quality assessment of tone-mapped images. *IEEE Transactions on Image Processing*, 22(2):657–667, Feb 2013. ISSN 1057-7149. doi: 10.1109/TIP.2012.2221725.
- [53] L. Zhang, L. Zhang, X. Mou, and D. Zhang. FSIM: A feature similarity index for image quality assessment. *IEEE Transactions on Image Processing*, 20(8): 2378–2386, aug 2011. doi: 10.1109/tip.2011.2109730.