

# Compression of Cyber Learning Images Based on DLDCT

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**Abstract:** *Dealing with the picture database with minimal garage complexity, minimum computational complexity and ultimate nice is an important work. To obtain these solutions, many image-processing techniques are advanced. Now days, E-learning assets are widely used across the internet based totally expertise sharing environments. Within the cyber learning surroundings, multiple sorts of records sources are controlled. Particularly, organizing the photos is challenge that is more vital where pictures appeared in the cyber learning network databases. This trouble expects solutions from powerful image compression techniques. Block truncation coding technique is offer beneficial and easy implementations of cyber learning to know primarily based picture compression platform. On this regard, this proposed system develops a Dual Layered Deep Classification and Truncation (DLDCT) approach. This proposed system has applied the DLDCT and as compared with existing works with admire to considerable overall performance parameters.*

**Keywords:** Image processing, Cyber learning, Compression, DLDCT and BTC

## REFERENCES

- [1]. Mentzer, Fabian, George Toderici, Michael Tschannen, and Eirikur Agustsson. "High-Fidelity Generative Image Compression." arXiv preprint arXiv:2006.09965 (2020).
- [2]. Li, Mu, Wangmeng Zuo, Shuhang Gu, Jane You, and David Zhang. "Learning content-weighted deep image compression." IEEE Transactions on Pattern Analysis and Machine Intelligence (2020).
- [3]. Yang, Zhaohui, Yunhe Wang, Chang Xu, Peng Du, Chao Xu, Chunjing Xu, and Qi Tian. "Discernible Image Compression." In Proceedings of the 28th ACM International Conference on Multimedia, pp. 1561-1569. 2020.
- [4]. Kavitha N and Ruba Soundar K "Moving Shadow Detection Based on Stationary Wavelet Transform", EURASIP Journal on Image and Video Processing, Vol.2017:49, Issue 1, July 2017, pp.1-11. DOI 10.1186/s13640-017-0198-x
- [5]. Kavitha Nagarathinam and Ruba Soundar Kathavarayan "Moving Shadow Detection Based on Stationary Wavelet Transform and Zernike Moments", IET Computer Vision, Vol.12. Issue 6, September 2018, pp.787-795, DOI 10.1049/iet-cvi.2017.0273
- [6]. Tian, Chunwei, Yong Xu, and Wangmeng Zuo. "Image denoising using deep CNN with batch renormalization." Neural Networks 121 (2020): 461-473.
- [7]. Dua, Yaman, Vinod Kumar, and Ravi Shankar Singh. "Comprehensive review of hyperspectral image compression algorithms." Optical Engineering 59, no. 9 (2020): 090902.
- [8]. Cavigelli, Lukas, Pascal Hager, and Luca Benini. "CAS-CNN: A deep convolutional neural network for image compression artifact suppression." In 2017 International Joint Conference on Neural Networks (IJCNN), pp. 752-759. IEEE, 2017.
- [9]. Zhang, Yulun, Yapeng Tian, Yu Kong, Bineng Zhong, and Yun Fu. "Residual dense network for image restoration." IEEE Transactions on Pattern Analysis and Machine Intelligence (2020).
- [10]. Fu, Haisheng, Feng Liang, Bo Lei, Nai Bian, Qian Zhang, Mohammad Akbari, Jie Liang, and Chengjie Tu. "Improved hybrid layered image compression using deep learning and traditional codecs." Signal Processing: Image Communication 82 (2020): 115774.
- [11]. Zhang, Xinfeng, Chao Yang, Xiaoguang Li, Shan Liu, Haitao Yang, Ioannis Katsavounidis, Shaw-Min Lei, and C-C. Jay Kuo. "Image Coding With Data-Driven Transforms: Methodology, Performance and

