Reading list for Generative AI for Data Compression and Transmission, TSKS18, 2026

Books

Tomczak, Jakub M, (2024) *Deep generative modeling*. 2nd ed. Cham : Springer, 2024.
ISBN: 9783031640872, 303164087X

Articles

Blau, Yochai, Michaeli, Tomer, Rethinking Lossy Compression: The Rate-Distortion-Perception Tradeoff *ICML* pp. 675-685, 2019

Bourtsoulatze, E., Burth Kurka, D., Gunduz, D., Deep Joint Source-Channel Coding for Wireless Image Transmission *IEEE Transactions on Cognitive Communications and Networking* vol. 5, no. 3, pp. 567-579, Sept. 2019.

Dai, Jincheng, Qin, Xiaoqi, Wang, Sixian, Xu, Lexi, Niu, Kai, Zhang, Ping, Deep Generative Modeling Reshapes Compression and Transmission: From Efficiency to Resiliency *IEEE Wireless Communications* vol. 31, no. 4, pp. 48-56, August 2024

Yibo Yang, Stephan Mandt and Lucas Theis, An Introduction to Neural Data Compression *Foundations and Trends in Computer Graphics and Vision* Vol. 15: No. 2, pp 113-200. 2023