

Title (en)  
NEURAL NETWORK FOR VARIABLE BIT RATE COMPRESSION

Title (de)  
NEURONALES NETZ ZUR KOMPRESSIION MIT VARIABLER BITRATE

Title (fr)  
RÉSEAU NEURONAL DE COMPRESSION DE DÉBIT BINAIRE VARIABLE

Publication  
**EP 3994625 A4 20230531 (EN)**

Application  
**EP 20835330 A 20200610**

Priority

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Abstract (en)  
[origin: WO2021001594A1] Example embodiments provide a neural data compression network which may be configured to output variable bit rate codes and a decompression network capable of decompressing the variable bit rate codes. This is achieved based on training an encoder network to be capable of outputting variable size activations. Output activations may be divided into a plurality of blocks and a subset of the blocks may be selected based on a desired quality level. A decoder network may be trained as part of an auto-encoder comprising the encoder network. Apparatuses, methods, and computer programs are disclosed.

IPC 8 full level  
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Citation (search report)

- [X] GEORGE TODERICI ET AL: "Variable Rate Image Compression with Recurrent Neural Networks", 1 March 2016 (2016-03-01), arXiv.org, pages 1 - 12, XP055506355, Retrieved from the Internet <URL:https://arxiv.org/abs/1511.06085> [retrieved on 20180911]
- [I] TODERICI GEORGE ET AL: "Full Resolution Image Compression with Recurrent Neural Networks", 2017 IEEE CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR), IEEE COMPUTER SOCIETY, US, 21 July 2017 (2017-07-21), pages 5435 - 5443, XP033249903, ISSN: 1063-6919, [retrieved on 20171106], DOI: 10.1109/CVPR.2017.577
- See also references of WO 2021001594A1

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