



OPEN

Author Correction: Quantum pixel representations and compression for N -dimensional images

Mercy G. Amankwah, Daan Camps, E. Wes Bethel, Roel Van Beeumen & Talita Perciano

Correction to: *Scientific Reports* <https://doi.org/10.1038/s41598-022-11024-y>, published online 11 May 2022

The original version of this Article contained errors in the Figure legends of Figure 5 and Figure 6. The legends of these Figures were inadvertently switched.

The legend of Figure 5:

“ 256×256 image data of a ceramic matrix composite sample⁴⁹ acquired using microCT simulated with QPIXL++ at various compression levels and corresponding gate counts of the 17-qubit $U_{\mathcal{Q}}$ circuit. The final two rows list the reduction in R_y and CNOT gates compared to the uncompressed circuits.”

now reads:

“ 28×28 image data from the MNIST^{47,48} database simulated with QPIXL++ at various compression levels and corresponding gate counts of the 11-qubit $U_{\mathcal{Q}}$ circuit. The final two rows list the reduction in R_y and CNOT gates compared to the uncompressed circuits.”

The legend of Figure 6:

“ 28×28 image data from the MNIST^{47,48} database simulated with QPIXL++ at various compression levels and corresponding gate counts of the 11-qubit $U_{\mathcal{Q}}$ circuit. The final two rows list the reduction in R_y and CNOT gates compared to the uncompressed circuits.”

now reads:

“ 256×256 image data of a ceramic matrix composite sample⁴⁹ acquired using microCT simulated with QPIXL++ at various compression levels and corresponding gate counts of the 17-qubit $U_{\mathcal{Q}}$ circuit. The final two rows list the reduction in R_y and CNOT gates compared to the uncompressed circuits.”

The original Article has been corrected.



Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>.

© The Author(s) 2022