

Network-to-Network Translation with Conditional Invertible Neural Networks

Author Response

2 We thank all the reviewers for their positive feedback and for valuing the importance of the problem and the novelty of
3 our approach, and for acknowledging its potential benefits for a variety of research communities as demonstrated by a
4 comprehensive set of experiments.

5 We will incorporate valuable suggestions regarding related work into the final version and will go into more detail about
6 multi-task learning and INNs in general. Thanks also for the comments on writing style and title, which we will gladly
7 take into account. In particular, as suggested by **Reviewer 1**, we will replace the abbreviation "cINN" in the title by the
8 full name of the method. We furthermore agree with **Reviewer 3** about the importance of the comparison of our cINN
9 with an MLP and will move parts of this section from the supplementary material into the main text.

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11 **Reviewer 2** suggests that the quantitative comparison of our method with the given other works for the *text-*
12 *to-image translation* task will benefit from additional metrics beside the Inception Score (see Tab. 1 in the main paper).
We generally agree with this statement and therefore provide an additional comparison in terms of FID scores:

	our	DM-GAN	AttnGAN	Mirror GAN	SD-GAN
FID ↓	30.63	32.64	35.49	no pretrained model	no code available

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14 To obtain these scores, we used the authors' official implementation available at [https://github.com/MinfengZhu/](https://github.com/MinfengZhu/DM-GAN)
15 DM-GAN. Note, however, that our method utilizes a pretrained expert generator which was trained on the *ImageNet*
16 dataset (i.e. BigGAN, see l.173). Thus, we evaluate FID scores w.r.t. the validation split of the *ImageNet* dataset.

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18 We furthermore agree with **Reviewer 4** that a detailed study of dual-way translation is an interesting avenue
19 for future works.