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Generating three-qubit quantum circuits with neural networks

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Highlights

- New method for quantum compiling with a neural network.
- Use of subRiemannian geodesics makes it possible to train a neural network for this problem.
- A trained neural network can be reused to compile circuits. Do not have to perform optimisation each time a unitary matrix needs to be compiled. The neural network computes circuits relatively instantaneously.
- Documentation has been added to the repository for others wanting to use this project.
- Comparison is made to some of the existing techniques.

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