

Magnetic resonance imaging (MRI)



Unlock 24/7 MRI access with our digital twins



Optimal control

Design highly selective and robust pulse sequences for peak image quality



Digital twin

Create a perfect replica of your MRI machine to unlock unlimited testing time



User-friendly interface

Explore and refine pulse sequences in an intuitive simulation environment

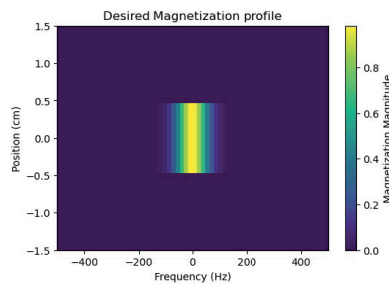


Error budget

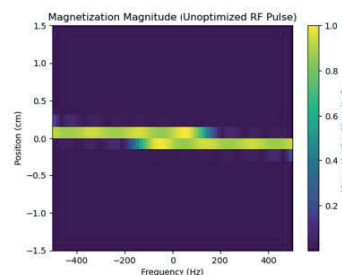
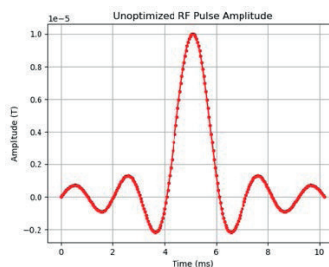
Quantify your sources of error, so you know exactly what to focus on

Easy spatial-spectral pulse optimisation with Qruise

Target magnetisation profile

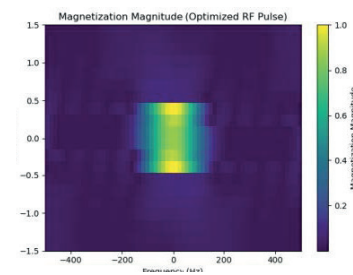
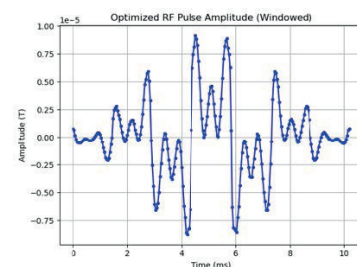


Unoptimised pulse



Simulated magnetisation profile using unoptimised pulse

Optimised pulse



Simulated magnetisation profile using optimised pulse

MRI machines require precise pulse design for optimal image quality, but research access for pulse sequence development is limited and costly.

Unlike generic simulators, Qruise's digital twins are calibrated to your MRI machine's unique characteristics. Using model learning, we iteratively refine the model to create a perfect replica, providing a realistic, cost-free method to test new pulse sequences, debug error sources, and implement corrections. And best of all, it's accessible anytime, anywhere!

Find your digital twin with



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