





An Al-driven Magnetic Resonance Imaging synthesis framework

Timur Latypov, MD, PhD Candidate

An Al-driven Magnetic Resonance Imaging synthesis framework

and Education in Medicine

UNIVERSITY OF TORONTO

Key challenge:

- Cross-comparison of magnetic resonance brain images acquired in different machines is difficult.
- MRs are often repeated, which is inefficient and time-consuming

Objective:

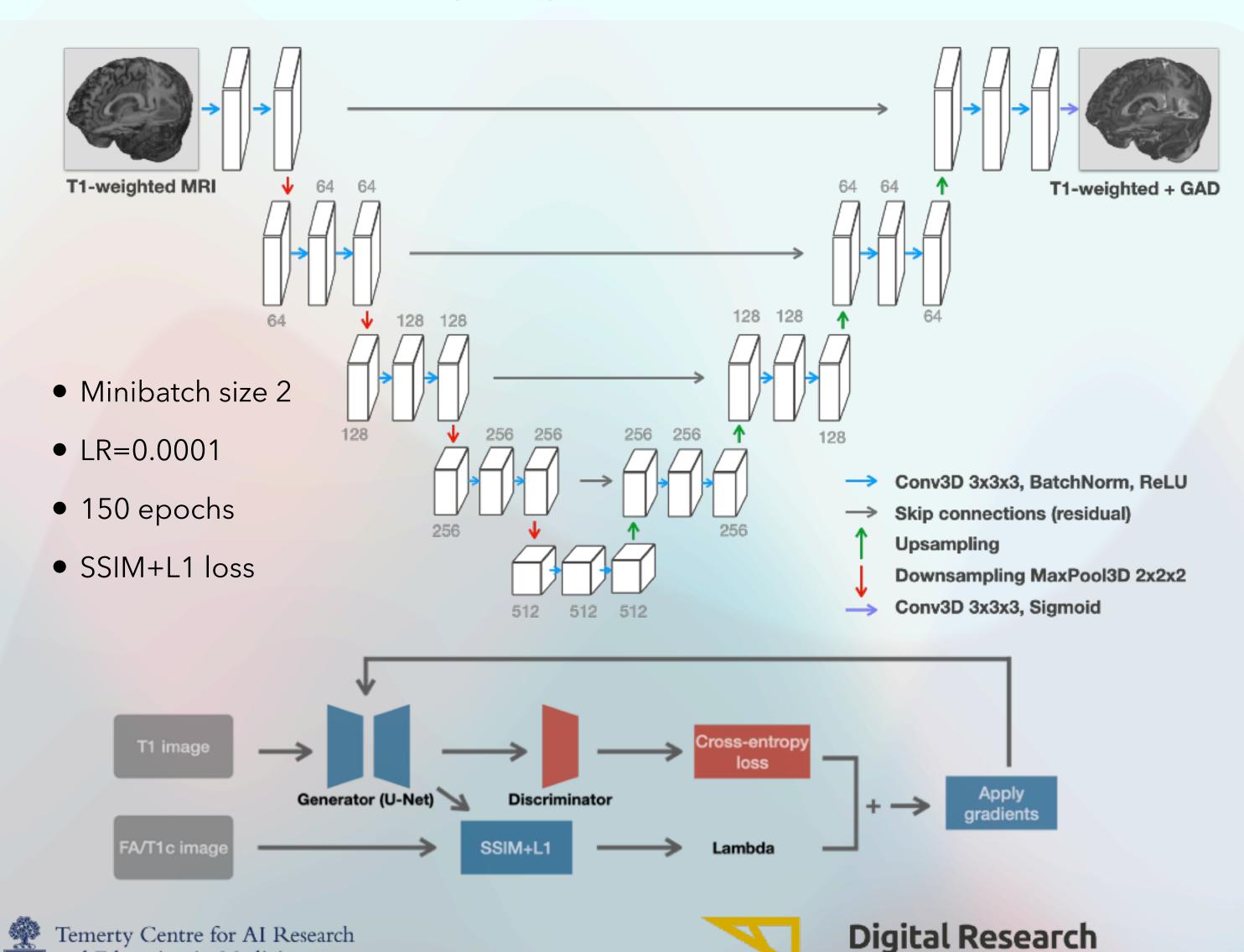
 Explore the efficacy of using modern generative models for synthesizing realistic MR imaging data using the T1-weighted images as input

Training datasets

- AOMIC ID 1000
- BraTS 2021 (total n ~2000)

Models: 3D-UNET (baseline), Pix2Pix-GAN





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