Tucson,

Jul 25th 2020

Prof. John Gore

Editor-in-Chief

Magnetic Resonance Imaging

Dear Prof. Gore,

We are resubmitting herewith a revised version of our manuscript titled “**Automated Thalamic Nuclei Segmentation using Multi-Planar Cascaded Convolutional Neural Networks**” to Magnetic Resonance Imaging.

We have addressed the issues raised by both reviewers thoroughly and to the best of our abilities and we believe it has strengthened the paper. In summary, we have added a paragraph in Discussion about the clinical adoption of our method in response to Reviewer 1. We have also shortened the manuscript a bit in response to Reviewer 2 by removing some material from the Introduction and moving some formulae to the Appendix. We have also cleaned up Figures 4-5 to highlight the contrast of the background images. We are submitting a clean version of the manuscript, a version with changes annotated, and a document with all the Reviewer comments addressed point by point.

Looking forward to your response,

Sincerely,

Manojkumar Saranathan, PhD

Associate Professor,

Department of Medical Imaging

University of Arizona, Tucson

Arizona, USA