## DeepDWI: High Resolution Diffusion-Weighted Imaging with Deep Learning Reconstructions

2

10

11

ZHENGGUO TAN<sup>1, \*</sup>, JULIUS GLASER<sup>2</sup>, PATRICK A LIEBIG<sup>3</sup>, FREDERIK B LAUN<sup>4</sup>,
AND FLORIAN KNOLL<sup>1</sup>

Department Artificial Intelligence in Biomedical Engineering (AIBE), Friedrich-Alexander University
 of Erlangen-Nuremberg, Erlangen, Germany
 Medical Engineering, Friedrich-Alexander University of Erlangen-Nuremberg, Erlangen, Germany
 Siemens Healthcare GmbH, Erlangen, Germany

<sup>4</sup>Institute of Radiology, University Hospital Erlangen, Friedrich-Alexander University of Erlangen-Nuremberg, Erlangen, Germany

 $^*Correspondence\ Author:\ zhengguo.tan@gmail.com$ 

12 Abstract

13

- 1 Introduction
- 15 deep
- 16 2 Results
- 3 Discussion
- 18 4 Methods
- Acknowledgements
- 20 Author Contributions
- Declaration of Competing Interests