



MR Diffusion Weighted Method and System for Providing Microstructural Information of A Biological Target Using Sine Cardinal(SINC) Function and Q-space Sampling

提案人：曾文毅教授

單位：國立臺灣大學 醫療器材與醫學影像研究所

簡歷：<http://abmri.mc.ntu.edu.tw/tw/member.php>

市場及需求：本技術可增進現有結構性聯結成像術之效率,具有良好之產品或技術之競爭性及市場的可行性,具有潛力應用於結構性聯結成像術相關廠商及產品。

技術摘要(含成果)：結構性聯結成像術效率不斷地提升,但受限於傳統磁共振造影新技術,一般磁共振造影新技術效率僅有約 60%,因此開發結構性聯結成像術技術相當關鍵。本發明主要即在提供一能有效增強結構性聯結成像術的磁共振造影新技術,以及能有效增強結構性聯結成像術。本技術能提供相當高之結構性聯結成像術效率。

優勢：本技術可增進現有結構性聯結成像術效率,具有良好之產品或技術之競爭性及市場的可行性。

競爭產品：傳統磁共振造影新技術結構性聯結成像效率仍相當有限。本技術提供相當高之結構性聯結成像效率,具有良好之產品或技術之競爭性及市場的可行性。

專利現況：

證書號：US 8,564,289 B2

專利期間：2010/10/07~2032/06/09

發證日：2013/10/22

聯絡方式(請不用填)：

臺大產學合作總中心

Tel: 02-3366-9945, E-mail: ntuciac@ntu.edu.tw



MR Diffusion Weighted Method and System for Providing Microstructural Information of A Biological Target Using Sine Cardinal(SINC) Function and Q-space Sampling

PI : Prof. Wen-Yih Isaac Tseng

Institute of Medical Device and Imaging, National Taiwan U.

Experience: <http://abmri.mc.ntu.edu.tw/tw/member.php>

Market Needs: This technology can enhance the efficiency of existing connectome imaging, has a good product or technology competitiveness and the feasibility of the market, has the potential to apply to the connectome imaging related manufacturers and products.

Our Technology: connectome imaging efficiency continues to improve, but limited by the traditional magnetic resonance imaging technology, the general magnetic resonance imaging technology is only about 60% efficiency, so the development of connectome imaging Technology is critical. The present invention is directed to providing a new magnetic resonance imaging technique which can effectively enhance the connectome imaging, and can effectively enhance the connectome imaging. This technique can provide a high degree of connectome imaging efficiency.

Strength: The technology can enhance the efficiency of existing connectome imaging, with a good product or technology competitiveness and the feasibility of the market.

Competing Products: Traditional magnetic resonance imaging of new technology structural connection imaging efficiency is still quite limited. The technology provides a high degree of connectome imaging efficiency, has a good product or technology competitive and market feasibility.

Intellectual Properties:

Patent number: US 8,564,289 B2,

Duration of the patent: 2010/10/07~2032/06/09,

Date of the patent: 2013/10/22

Contact (do not need to fill out):

Center for Industry-Academia Cooperation, NTU

Tel: 02-3366-9945, E-mail: ntuciac@ntu.edu.tw