

the present study was conducted to reveal the feasibility of the reconstruction of highly undersampled single-shot spiral mri using the proposed improved art-tv method. the proposed art-tv method is based on the compressive sensing theory and the tensor decomposition-based sparsity regularization. the proposed method showed superior performance in reconstructing highly undersampled spiral mri with artifacts (l-spine and fat-water interface) even in a small fov. moreover, the proposed method demonstrated its capability of reconstructing a small region of a single-shot spiral mri that is acquired with a small field of view. the feasibility of the reconstruction of a single-shot spiral mri was validated with the reconstruction of the heart and the small region of the l-spine in a 15-min cardiac perfusion mri. finally, clinical applicability of the proposed art-tv method was verified using a clinical cardiac mri data set with the reconstruction of the heart and the small region of the l-spine. we investigated the possibility of the joint compressed sensing-based reconstruction of multi-detector-coil mr images using the overlapping finite frames and the tensor decomposition-based sparsity regularization method. the proposed method achieved the full data-based reconstruction of a single-frame multi-detector-coil mr images with the joint sparsity regularization, which was validated using both simulation and a real-life data set. the present study aimed to propose an mri reconstruction method using the compressed sensing theory and the tensor decomposition-based sparsity regularization, in which two-dimensional (2d) cartesian k-space was compressed using the non-uniform sampling. as a result, we demonstrated that the proposed method could reconstruct a 2d cartesian k-space from highly undersampled samples. the proposed method was validated using both simulation and a real-life dataset.



One of the challenges for rapid prototyping of highly porous scaffolds is the difficulty of combining or even achieving optimal scaffold properties.

This is exemplified in the plot shown in Fig. 1, where the solid line is a line of identity, which illustrates the separation of the highly porous and solid scaffold properties. In this paper, the highly porous scaffolds with the optimum porous and mechanical properties are achieved. This study provides a roadmap for highly porous scaffolds for tissue engineering.

3D printing is a powerful technology to fabricate complex scaffolds designed in Computer Aided Design (CAD) software. [5]. However, using these manufacturing technologies, the porosity is not dependent on the stochastic spatial distribution of pores or porogens [8]. It can be designed and printed. Indeed, [9] these new methodologies are driving an increasing amount of research on pore geometry. In general, the size and shape of pores within the scaffold must balance mechanical integrity with bioactive molecule delivery, tissue infusion, and degradation characteristics [5, 7]. Pores should be gently curving and minimally tortuous so as not to hinder cell in-migration [13, 14]. They should also be interconnected to encourage vascularization [15] and highly permeable to permit the inflow of nutrients, bioactive molecules, and disposal of metabolic waste [16]. Finally, the pore design should be easily created and rendered in the 3D modeling software (i.e. CAD software) and scaffold fabrication software (i.e. Computer Aided Manufacture or CAM software). 5ec8ef588b

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