

"EWBODFE .3 \*NBHJOH 5FDIOPMPHJFT JO 'FUV

transceiver arrays using microstrip technology can achieve superior performance with improved element decoupling and coupling factor for various subjects with different sizes. This transceiver array design technique should be beneficial to, and also help to implement parallel excitation for fetal imaging where the size and shape of maternal bodies often vary. In excitation methodology, sparse pulse excitation based on sparse k-space has been proposed and investigated to shorten the excitation pulse width, and thus accelerate the excitation and improve imaging safety. exclee imacoun <</MC(4(e)237(g)-26(n)36(n) /Spa2(t)416(t)(o))TJ (w)-11/Spa2(.n36(n) /Spa2(t)416(t)(o)) e

signal reconstruction from highly incomplete frequency information. IEEE Trans Inf Theory 52: 489-509.

37. Candes EJ, Tao T (2006) Near-optimal signal recovery from random projections: Universal encoding strategies? IEEE Trans Inf Theory 52: 5406-5425.

38. Lustig M, Donoho DL, Santos JM, Pauly JM (2008) Compressed sensing. IEEE Signal Process Mag 52: 1289-1306.

39. Lustig M, Donoho D, Pauly JM (2007) Sparse MRI: The application of compressed sensing for rapid MR imaging. Magn Reson Med 58: 1182-1195.

40. Gamper U, Boesiger P, Kozerke S (2008) Compressed sensing in dynamic MRI. Magn Reson Med 59: 365-373.

41. Hu S, Lustig M, Chen AP, Crane J, Kerr A, et al. (2008) Compressed sensing IR U U H V R O X W L R Q H Q K D Q F H P H Q W R I K \ S H U S R O D U L J H G & Å \ E D F N ' 0 5 6 , - 0 D J Q Reson 192: 258-264.

42. Romberg J (2008) Imaging via compressive sampling. IEEE Signal Process Mag 25: 14-20.

43. Chang CH, Ji J (2009) Compressed sensing MRI with multi-channel data using multi-core processors. Conf Proc IEEE Eng Med Biol Soc 2009: 2684-2687.

44. Kim YC, Narayanan SS, Nayak KS (2009) Accelerated three-dimensional upper airway MRI using compressed sensing. Magn Reson Med 61: 1434-1440.

45. Jung H, Sung K, Nayak KS, Kim EY, Ye JC (2009) k-t FOCUSS: a general