

Edward V R Dibella

List of Publications by Year in descending order

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117
papers

5,614
citations

136740

32
h-index

82410

72
g-index

121
all docs

121
docs citations

121
times ranked

5473
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Jointly estimating parametric maps of multiple diffusion models from undersampled $q\hat{\epsilon}$ space data: A comparison of three deep learning approaches. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2957-2971. | 1.9 | 2 |
| 2 | Beyond Diffusion Tensor MRI Methods for Improved Characterization of the Brain after Ischemic Stroke: A Review. <i>American Journal of Neuroradiology</i> , 2022, 43, 661-669. | 1.2 | 11 |
| 3 | Simultaneous multi-slice image reconstruction using regularized image domain split slice-GRAPPA for diffusion MRI. <i>Medical Image Analysis</i> , 2021, 70, 102000. | 7.0 | 10 |
| 4 | B-PO05-139 CHANGES IN FLOW DYNAMICS DUE TO PERSISTENT ATRIAL FIBRILLATION IN A CHRONICALLY PACED CANINE MODEL. <i>Heart Rhythm</i> , 2021, 18, S428-S429. | 0.3 | 0 |
| 5 | Deep learning for radial SMS myocardial perfusion reconstruction using the 3D residual booster U-net. <i>Magnetic Resonance Imaging</i> , 2021, 83, 178-188. | 1.0 | 9 |
| 6 | Quantitative 3D myocardial perfusion with an efficient arterial input function. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1949-1963. | 1.9 | 14 |
| 7 | Coil-combined split slice-GRAPPA for simultaneous multi-slice diffusion MRI. <i>Magnetic Resonance Imaging</i> , 2020, 66, 9-21. | 1.0 | 6 |
| 8 | Reproducibility of clinical late gadolinium enhancement magnetic resonance imaging in detecting left atrial scar after atrial fibrillation ablation. <i>Journal of Cardiovascular Electrophysiology</i> , 2020, 31, 2824-2832. | 0.8 | 7 |
| 9 | Whole-heart, ungated, free-breathing, cardiac-phase-resolved myocardial perfusion MRI by using Continuous Radial Interleaved simultaneous Multi-slice acquisitions at sPoiled steady-state (CRIMP). <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3071-3087. | 1.9 | 12 |
| 10 | Initial investigation of free-breathing 3D whole-heart stress myocardial perfusion MRI. <i>Global Cardiology Science & Practice</i> , 2020, 2020, e202038. | 0.3 | 2 |
| 11 | Predicting Motor Outcomes in Stroke Patients Using Diffusion Spectrum MRI Microstructural Measures. <i>Frontiers in Neurology</i> , 2019, 10, 72. | 1.1 | 28 |
| 12 | Feasibility of multiple-view myocardial perfusion MRI using radial simultaneous multi-slice acquisitions. <i>PLoS ONE</i> , 2019, 14, e0211738. | 1.1 | 16 |
| 13 | Simultaneous NODDI and GFA parameter map generation from subsampled $q\hat{\epsilon}$ space imaging using deep learning. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2399-2411. | 1.9 | 51 |
| 14 | Distance between the left atrium and the vertebral body is predictive of esophageal movement in serial MR imaging. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2018, 52, 149-156. | 0.6 | 10 |
| 15 | Validation of highly accelerated real-time cardiac cine MRI with radial $k\hat{\epsilon}$ space sampling and compressed sensing in patients at 1.5T and 3T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2745-2751. | 1.9 | 39 |
| 16 | Optimization and validation of accelerated golden-angle radial sparse MRI reconstruction with self-calibrating GRAPPA operator gridding. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 286-293. | 1.9 | 28 |
| 17 | Improving image reconstructions for simultaneous multi-slice readout-segmented diffusion MRI data with phase errors. , 2018, , . | | 1 |
| 18 | Accelerated dynamic MRI using patch regularization for implicit motion compensation. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1238-1248. | 1.9 | 33 |

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|----|--|-----|-----------|
| 19 | An Open Benchmark Challenge for Motion Correction of Myocardial Perfusion MRI. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1315-1326. | 3.9 | 18 |
| 20 | Effect of slice excitation profile on ungated steady state cardiac perfusion imaging. Biomedical Physics and Engineering Express, 2017, 3, 027001. | 0.6 | 3 |
| 21 | Technical Note: Evaluation of pre-reconstruction interpolation methods for iterative reconstruction of radial k-space data. Medical Physics, 2017, 44, 4025-4034. | 1.6 | 15 |
| 22 | Rapid rest/stress regadenoson ungated perfusion CMR for detection of coronary artery disease in patients with atrial fibrillation. International Journal of Cardiovascular Imaging, 2017, 33, 1781-1788. | 0.7 | 6 |
| 23 | Estimating extraction fraction and blood flow by combining first-pass myocardial perfusion and T1 mapping results. Quantitative Imaging in Medicine and Surgery, 2017, 7, 480-495. | 1.1 | 4 |
| 24 | Interstudy repeatability of self-gated quantitative myocardial perfusion MRI. Journal of Magnetic Resonance Imaging, 2016, 43, 1369-1378. | 1.9 | 10 |
| 25 | Split Bregman multicoil accelerated reconstruction technique: A new framework for rapid reconstruction of cardiac perfusion MRI. Medical Physics, 2016, 43, 1969-1981. | 1.6 | 9 |
| 26 | Compressed sensing for rapid late gadolinium enhanced imaging of the left atrium: A preliminary study. Magnetic Resonance Imaging, 2016, 34, 846-854. | 1.0 | 20 |
| 27 | Radial simultaneous multi-slice CAIPI for ungated myocardial perfusion. Magnetic Resonance Imaging, 2016, 34, 1329-1336. | 1.0 | 26 |
| 28 | A review of 3D first-pass, whole-heart, myocardial perfusion cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 68. | 1.6 | 43 |
| 29 | Comparison of centric and reverse-centric trajectories for highly accelerated three-dimensional saturation recovery cardiac perfusion imaging. Magnetic Resonance in Medicine, 2015, 74, 1070-1076. | 1.9 | 8 |
| 30 | Sparse Reconstruction Challenge for diffusion MRI: Validation on a physical phantom to determine which acquisition scheme and analysis method to use?. Medical Image Analysis, 2015, 26, 316-331. | 7.0 | 78 |
| 31 | Higher-Order Motion-Compensation for In Vivo Cardiac Diffusion Tensor Imaging in Rats. IEEE Transactions on Medical Imaging, 2015, 34, 1843-1853. | 5.4 | 59 |
| 32 | Deformation Corrected Compressed Sensing (DC-CS): A Novel Framework for Accelerated Dynamic MRI. IEEE Transactions on Medical Imaging, 2015, 34, 72-85. | 5.4 | 71 |
| 33 | Quantification of myocardial perfusion with self-gated cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 14. | 1.6 | 14 |
| 34 | MRI reconstruction of multi-image acquisitions using a rank regularizer with data reordering. Medical Physics, 2015, 42, 4734-4744. | 1.6 | 2 |
| 35 | Deformable and Rigid Model-Based Image Registration for Quantitative Cardiac Perfusion. Lecture Notes in Computer Science, 2015, , 41-50. | 1.0 | 2 |
| 36 | Sparse BLIP: BLind Iterative Parallel imaging reconstruction using compressed sensing. Magnetic Resonance in Medicine, 2014, 71, 645-660. | 1.9 | 26 |

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|----|---|-----|-----------|
| 37 | Assessment of white matter microstructure in stroke patients using NODDI. , 2014, 2014, 742-5. | | 46 |
| 38 | Alterations in atrial perfusion during atrial fibrillation. Experimental Physiology, 2014, 99, 1267-1272. | 0.9 | 7 |
| 39 | Highly accelerated dynamic contrast-enhanced MRI with temporal constrained reconstruction. , 2014, 2014, 2408-11. | | 0 |
| 40 | Atrial Fibrillation Ablation Outcome Is Predicted by Left Atrial Remodeling on MRI. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 23-30. | 2.1 | 316 |
| 41 | Evaluation of highly accelerated real-time cardiac cine MRI in tachycardia. NMR in Biomedicine, 2014, 27, 175-182. | 1.6 | 18 |
| 42 | Rapid ungated myocardial perfusion cardiovascular magnetic resonance: preliminary diagnostic accuracy. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 26. | 1.6 | 29 |
| 43 | Compressed sensing HARDI via rotation-invariant concise dictionaries, flexible K-space undersampling, and multiscale spatial regularity. , 2013, , . | | 11 |
| 44 | Highly accelerated real-time cardiac cine MRI using <i>k</i> - <i>t</i> SPARSESENSE. Magnetic Resonance in Medicine, 2013, 70, 64-74. | 1.9 | 176 |
| 45 | Accelerating free breathing myocardial perfusion MRI using multi coil radial <i>k</i> - <i>t</i> SLR. Physics in Medicine and Biology, 2013, 58, 7309-7327. | 1.6 | 25 |
| 46 | Non-iterative reconstruction with a prior for undersampled radial MRI data. International Journal of Imaging Systems and Technology, 2013, 23, 53-58. | 2.7 | 6 |
| 47 | Model-based reconstruction of undersampled diffusion tensor <i>k</i> -space data. Magnetic Resonance in Medicine, 2013, 70, 429-440. | 1.9 | 40 |
| 48 | Myocardial perfusion MRI with an undersampled 3D stack-of-stars sequence. Medical Physics, 2012, 39, 5204-5211. | 1.6 | 31 |
| 49 | Simultaneous image reconstruction and sensitivity estimation in parallel MRI using blind compressed sensing. , 2012, , . | | 1 |
| 50 | The effect of obesity on regadenoson-induced myocardial hyperemia: a quantitative magnetic resonance imaging study. International Journal of Cardiovascular Imaging, 2012, 28, 1435-1444. | 0.7 | 30 |
| 51 | Spatiotemporal dictionary learning for undersampled dynamic MRI reconstruction via joint frame-based and dictionary-based sparsity. , 2012, , . | | 24 |
| 52 | The effect of temporal sampling on quantitative pharmacokinetic and three-time-point analysis of breast DCE-MRI. Magnetic Resonance Imaging, 2012, 30, 934-943. | 1.0 | 13 |
| 53 | Compression2: compressed sensing with compressed coil arrays. Journal of Cardiovascular Magnetic Resonance, 2012, 14, . | 1.6 | 7 |
| 54 | <i>k</i> - <i>t</i> ISD: Dynamic cardiac MR imaging using compressed sensing with iterative support detection. Magnetic Resonance in Medicine, 2012, 68, 41-53. | 1.9 | 82 |

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|----|--|-----|-----------|
| 55 | Myocardial perfusion acquisition without magnetization preparation or gating. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 609-613. | 1.9 | 20 |
| 56 | Edge-enhanced spatiotemporal constrained reconstruction of undersampled dynamic contrast-enhanced radial MRI. <i>Magnetic Resonance Imaging</i> , 2012, 30, 610-619. | 1.0 | 6 |
| 57 | Magnetic resonance imaging (MRI) assessment of ventricular remodeling after myocardial infarction in rabbits. <i>Comparative Medicine</i> , 2012, 62, 116-23. | 0.4 | 5 |
| 58 | Dark Regions of No-Reflow on Late Gadolinium Enhancement Magnetic Resonance Imaging Result in Scar Formation After Atrial Fibrillation Ablation. <i>Journal of the American College of Cardiology</i> , 2011, 58, 177-185. | 1.2 | 102 |
| 59 | Accelerated Dynamic MRI Exploiting Sparsity and Low-Rank Structure: k-t SLR. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 1042-1054. | 5.4 | 510 |
| 60 | Late Gadolinium Enhancement imaging using stack of stars and compressed sensing. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, . | 1.6 | 1 |
| 61 | A Framework for generalized reference image reconstruction methods including HYPR- LR , PR- FOCUSS , and FOCUSS . <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 403-412. | 1.9 | 5 |
| 62 | Three-dimensional late gadolinium enhancement imaging of the left atrium with a hybrid radial acquisition and compressed sensing. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 1465-1471. | 1.9 | 31 |
| 63 | Constrained estimation of the arterial input function for myocardial perfusion cardiovascular magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 419-427. | 1.9 | 10 |
| 64 | K-T ISD: Compressed sensing with iterative support detection for dynamic MRI. , 2011, , . | | 3 |
| 65 | Direct reconstruction of T1 from k-space using a radial saturation-recovery sequence. , 2011, , . | | 1 |
| 66 | Accelerated first pass cardiac perfusion MRI using improved k-t SLR. , 2011, , . | | 6 |
| 67 | Flow measurement in MRI using arterial spin labeling with cumulative readout pulses—Theory and validation. <i>Medical Physics</i> , 2010, 37, 5801-5810. | 1.6 | 9 |
| 68 | Toward local arterial input functions in dynamic contrast-enhanced MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 924-934. | 1.9 | 23 |
| 69 | Reconstruction of 3D dynamic contrast-enhanced magnetic resonance imaging using nonlocal means. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 1217-1227. | 1.9 | 40 |
| 70 | Comparison of myocardial perfusion estimates from dynamic contrast-enhanced magnetic resonance imaging with four quantitative analysis methods. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 125-137. | 1.9 | 69 |
| 71 | Reconstruction of dynamic contrast enhanced magnetic resonance imaging of the breast with temporal constraints. <i>Magnetic Resonance Imaging</i> , 2010, 28, 637-645. | 1.0 | 54 |
| 72 | Quantification of myocardial perfusion using CMR with a radial data acquisition: comparison with a dual-bolus method. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010, 12, 45. | 1.6 | 24 |

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| 73 | Quantification of myocardial perfusion MRI using radial data acquisition: comparison of Ktrans from dual-bolus and T1 estimation methods. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010, 12, . | 1.6 | 0 |
| 74 | A direct comparison of adenosine and regadenoson myocardial perfusion reserves measured by MRI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010, 12, . | 1.6 | 0 |
| 75 | Magnetic Resonance Imagingâ€œConfirmed Ablative Debulking of the Left Atrial Posterior Wall and Septum for Treatment of Persistent Atrial Fibrillation: Rationale and Initial Experience. <i>Journal of Cardiovascular Electrophysiology</i> , 2010, 21, 126-132. | 0.8 | 95 |
| 76 | Improving Undersampled MRI Reconstruction Using Non-local Means. , 2010, , . | | 4 |
| 77 | Left Atrial Strain and Strain Rate in Patients With Paroxysmal and Persistent Atrial Fibrillation. <i>Circulation: Cardiovascular Imaging</i> , 2010, 3, 231-239. | 1.3 | 550 |
| 78 | A model-constrained Monte Carlo method for blind arterial input function estimation in dynamic contrast-enhanced MRI: I. Simulations. <i>Physics in Medicine and Biology</i> , 2010, 55, 4783-4806. | 1.6 | 37 |
| 79 | A model-constrained Monte Carlo method for blind arterial input function estimation in dynamic contrast-enhanced MRI: II. In vivo results. <i>Physics in Medicine and Biology</i> , 2010, 55, 4807-4823. | 1.6 | 39 |
| 80 | Model-based reconstruction for undersampled dynamic contrast-enhanced MRI. <i>Proceedings of SPIE</i> , 2009, , . | 0.8 | 1 |
| 81 | Detection and Quantification of Left Atrial Structural Remodeling With Delayed-Enhancement Magnetic Resonance Imaging in Patients With Atrial Fibrillation. <i>Circulation</i> , 2009, 119, 1758-1767. | 1.6 | 960 |
| 82 | Acquisition and reconstruction of undersampled radial data for myocardial perfusion magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 466-473. | 1.9 | 129 |
| 83 | Temporally constrained reconstruction applied to MRI temperature data. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 406-419. | 1.9 | 43 |
| 84 | Model-based blind estimation of kinetic parameters in dynamic contrast enhanced (DCE)â€œMRI. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1477-1486. | 1.9 | 61 |
| 85 | Late gadolinium enhancement: precursor to cardiomyopathy in Duchenne muscular dystrophy?. <i>International Journal of Cardiovascular Imaging</i> , 2009, 25, 57-63. | 0.7 | 126 |
| 86 | Strain measurement in the left ventricle during systole with deformable image registration. <i>Medical Image Analysis</i> , 2009, 13, 354-361. | 7.0 | 59 |
| 87 | Temporal left atrial lesion formation after ablation of atrial fibrillation. <i>Heart Rhythm</i> , 2009, 6, 161-168. | 0.3 | 94 |
| 88 | Estimating myocardial perfusion from dynamic contrast-enhanced CMR with a model-independent deconvolution method. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008, 10, 52. | 1.6 | 46 |
| 89 | 1102 Data acquisition and reconstruction of undersampled radial MR myocardial perfusion. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008, 10, . | 1.6 | 0 |
| 90 | Quantitative myocardial distribution volume from dynamic contrast-enhanced MRI. <i>Magnetic Resonance Imaging</i> , 2008, 26, 532-542. | 1.0 | 21 |

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| 91 | New Magnetic Resonance Imaging-Based Method for Defining the Extent of Left Atrial Wall Injury After the Ablation of Atrial Fibrillation. <i>Journal of the American College of Cardiology</i> , 2008, 52, 1263-1271. | 1.2 | 313 |
| 92 | Reordering for Improved Constrained Reconstruction from Undersampled k-Space Data. <i>International Journal of Biomedical Imaging</i> , 2008, 2008, 1-12. | 3.0 | 31 |
| 93 | SPATIO-TEMPORAL CONSTRAINED RECONSTRUCTION OF SPARSE DYNAMIC CONTRAST ENHANCED RADIAL MRI DATA. , 2007, , . | | 14 |
| 94 | Perfusion MRI with radial acquisition for arterial input function assessment. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 821-827. | 1.9 | 28 |
| 95 | Temporally constrained reconstruction of dynamic cardiac perfusion MRI. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 1027-1036. | 1.9 | 91 |
| 96 | Cardiac Imaging Using a Four-Segment Slant-Hole Collimator. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 2619-2627. | 1.2 | 8 |
| 97 | Level sets and shape models for segmentation of cardiac perfusion MRI. , 2006, , . | | 2 |
| 98 | Model-based registration for dynamic cardiac perfusion MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 1062-1070. | 1.9 | 62 |
| 99 | Model-Based Image Reconstruction for Dynamic Cardiac Perfusion MRI from Sparse Data. , 2006, 2006, 936-41. | | 8 |
| 100 | Model-Based Image Reconstruction for Dynamic Cardiac Perfusion MRI from Sparse Data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , . | 0.5 | 0 |
| 101 | Blind identification of the kinetic parameters in three-compartment models. <i>Physics in Medicine and Biology</i> , 2004, 49, 639-664. | 1.6 | 17 |
| 102 | Parametric image formation using clustering for dynamic cardiac SPECT. <i>IEEE Transactions on Nuclear Science</i> , 2003, 50, 1584-1589. | 1.2 | 8 |
| 103 | Gamma camera PET with low energy collimators: characterization and correction of scatter. <i>IEEE Transactions on Nuclear Science</i> , 2002, 49, 2067-2073. | 1.2 | 1 |
| 104 | Estimation of kinetic parameters without input functions: analysis of three methods for multichannel blind identification. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 1318-1327. | 2.5 | 54 |
| 105 | Removal of liver activity contamination in teboroxime dynamic cardiac SPECT imaging with the use of factor analysis. <i>Journal of Nuclear Cardiology</i> , 2002, 9, 197-205. | 1.4 | 17 |
| 106 | Correlation of myocardial p-(123)I-iodophenylpentadecanoic acid retention with (18)F-FDG accumulation during experimental low-flow ischemia. <i>Journal of Nuclear Medicine</i> , 2002, 43, 421-31. | 2.8 | 8 |
| 107 | Compartmental Modeling of Technetium-99m Labeled Teboroxime with Dynamic Single-Photon Emission Computed Tomography. <i>Investigative Radiology</i> , 2001, 36, 178-185. | 3.5 | 31 |
| 108 | Estimation of coronary flow reserve: Can SPECT compete with other modalities?. <i>Journal of Nuclear Cardiology</i> , 2001, 8, 620-625. | 1.4 | 18 |

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| 109 | Comparison of static and dynamic cardiac perfusion thallium-201 SPECT. IEEE Transactions on Nuclear Science, 2001, 48, 774-779. | 1.2 | 11 |
| 110 | Factor analysis witha prioriknowledge - application in dynamic cardiac SPECT. Physics in Medicine and Biology, 2000, 45, 2619-2638. | 1.6 | 50 |
| 111 | Static versus dynamic teboroxime myocardial perfusion SPECT in canines. IEEE Transactions on Nuclear Science, 2000, 47, 1112-1117. | 1.2 | 9 |
| 112 | Analytical propagation of errors in dynamic SPECT: estimators, degrading factors, bias and noise. Physics in Medicine and Biology, 1999, 44, 1997-2014. | 1.6 | 28 |
| 113 | Blind estimation of compartmental model parameters. Physics in Medicine and Biology, 1999, 44, 765-780. | 1.6 | 30 |
| 114 | Automated region selection for analysis of dynamic cardiac SPECT data. IEEE Transactions on Nuclear Science, 1997, 44, 1355-1361. | 1.2 | 16 |
| 115 | Heterogeneity of SPECT bull's-eyes in normal dogs: comparison of attenuation compensation algorithms. IEEE Transactions on Nuclear Science, 1995, 42, 1290-1296. | 1.2 | 1 |
| 116 | Parallelized formulation of the maximum likelihood-expectation maximization algorithm for fine-grain message-passing architectures. IEEE Transactions on Medical Imaging, 1995, 14, 758-762. | 5.4 | 15 |
| 117 | Comparison of Prospective and Retrospective Gated 4D Flow Cardiac MR Image Acquisitions in the Carotid Bifurcation. Cardiovascular Engineering and Technology, 0, , . | 0.7 | 1 |