Terry M Peters

List of Publications by Year in Descending Order

335 papers	**7,940** citations	**43** h-index	**78** g-index
392 ext. papers	**8,971** ext. citations	**4.3** avg, IF	**5.99** L-index

#	Paper	IF	Citations
335	Towards a First-Person Perspective Mixed Reality Guidance System for Needle Interventions.. *Journal of Imaging*, **2022**, 8,	3.1	2
334	Guest Editorial Special Section on Surgical Vision, Navigation, and Robotics. *IEEE Transactions on Medical Robotics and Bionics*, **2022**, 4, 2-4	3.1	
333	Multi-View 3D Transesophageal Echocardiography Registration and Volume Compounding for Mitral Valve Procedure Planning. *Applied Sciences (Switzerland)*, **2022**, 12, 4562	2.6	0
332	MR and ultrasound cardiac image dynamic visualization and synchronization over Internet for distributed heart function diagnosis. *Computerized Medical Imaging and Graphics*, **2021**, 88, 101850	7.6	1
331	Characterizing white matter alterations subject to clinical laterality in drug-naïve de novo Parkinson's disease. *Human Brain Mapping*, **2021**, 42, 4465-4477	5.9	4
330	Image Guidance in Deep Brain Stimulation Surgery to Treat Parkinson's Disease: A Comprehensive Review. *IEEE Transactions on Biomedical Engineering*, **2021**, 68, 1024-1033	5	11
329	Improving central line needle insertions using in-situ vascular reconstructions. *Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization*, **2021**, 9, 363-369	0.9	
328	Evaluating High Spatial Resolution Diffusion Kurtosis Imaging at 3T: Reproducibility and Quality of Fit. *Journal of Magnetic Resonance Imaging*, **2021**, 53, 1175-1187	5.6	3
327	Quantitative Assessments for Ultrasound Probe Calibration. *Lecture Notes in Computer Science*, **2021**, 363-372	0.9	0
326	Ultra-High Field 7-Tesla Magnetic Resonance Imaging and Electroencephalography Findings in Epilepsy. *Canadian Association of Radiologists Journal*, **2021**, 8465371211031802	3.9	
325	Multi-view 3D echocardiography volume compounding for mitral valve procedure planning **2020**,		2
324	Holistic multitask regression network for multiapplication shape regression segmentation. *Medical Image Analysis*, **2020**, 65, 101783	15.4	5
323	Direct visualization and characterization of the human zona incerta and surrounding structures. *Human Brain Mapping*, **2020**, 41, 4500-4517	5.9	12
322	Optimization of multi-electrode implant configurations and programming for the delivery of non-ablative electric fields in intratumoral modulation therapy. *Medical Physics*, **2020**, 47, 5441-5454	4.4	0
321	Automatic segmentation of the carotid artery and internal jugular vein from 2D ultrasound images for 3D vascular reconstruction. *International Journal of Computer Assisted Radiology and Surgery*, **2020**, 15, 1835-1846	3.9	10
320	The Effects of Positioning on the Volume/Location of the Internal Jugular Vein Using 2-Dimensional Tracked Ultrasound. *Journal of Cardiothoracic and Vascular Anesthesia*, **2020**, 34, 920-925	2.1	4
319	Augmented reality simulator for ultrasound-guided percutaneous renal access. *International Journal of Computer Assisted Radiology and Surgery*, **2020**, 15, 749-757	3.9	5

318	Endoscopic Vision Augmentation Using Multiscale Bilateral-Weighted Retinex for Robotic Surgery. *IEEE Transactions on Medical Imaging*, **2019**, 38, 2863-2874	11.7	4
317	A Global Optimization Method for Specular Highlight Removal From a Single Image. *IEEE Access*, **2019**, 7, 125976-125990	3.5	6
316	Layer-based visualization and biomedical information exploration of multi-channel large histological data. *Computerized Medical Imaging and Graphics*, **2019**, 72, 34-46	7.6	1
315	A framework for evaluating correspondence between brain images using anatomical fiducials. *Human Brain Mapping*, **2019**, 40, 4163-4179	5.9	10
314	Accuracy assessment for the co-registration between optical and VIVE head-mounted display tracking. *International Journal of Computer Assisted Radiology and Surgery*, **2019**, 14, 1207-1215	3.9	13
313	Development and Evaluation of an Augmented Reality Ultrasound Guidance System for Spinal Anesthesia: Preliminary Results. *Ultrasound in Medicine and Biology*, **2019**, 45, 2736-2746	3.5	6
312	An accurate registration of the BigBrain dataset with the MNI PD25 and ICBM152 atlases. *Scientific Data*, **2019**, 6, 210	8.2	12
311	The effect of imaging and tracking parameters on ultrasound probe calibration robustness **2019**,		2
310	Towards a Mixed-Reality First Person Point of View Needle Navigation System. *Lecture Notes in Computer Science*, **2019**, 245-253	0.9	3
309	Deep learning approach for automatic out-of-plane needle localisation for semi-automatic ultrasound probe calibration. *Healthcare Technology Letters*, **2019**, 6, 204-209	1.9	4
308	Determining blood flow direction from short neurovascular surgical microscope videos. *Healthcare Technology Letters*, **2019**, 6, 191-196	1.9	0
307	Advanced Endoscopic Navigation: Surgical Big Data, Methodology, and Applications. *Annual Review of Biomedical Engineering*, **2018**, 20, 221-251	12	28
306	Quantification of local geometric distortion in structural magnetic resonance images: Application to ultra-high fields. *NeuroImage*, **2018**, 168, 141-151	7.9	13
305	Mixed reality ultrasound guidance system: a case study in system development and a cautionary tale. *International Journal of Computer Assisted Radiology and Surgery*, **2018**, 13, 495-505	3.9	16
304	Patient-specific cardiac phantom for clinical training and preprocedure surgical planning. *Journal of Medical Imaging*, **2018**, 5, 021222	2.6	11
303	Signal dropout correction-based ultrasound segmentation for diastolic mitral valve modeling. *Journal of Medical Imaging*, **2018**, 5, 021214	2.6	2
302	The semiotics of medical image Segmentation. *Medical Image Analysis*, **2018**, 44, 54-71	15.4	14
301	Augmented reality guidance in cerebrovascular surgery using microscopic video enhancement. *Healthcare Technology Letters*, **2018**, 5, 158-161	1.9	15

300	Endoscopic image enhancement with noise suppression. *Healthcare Technology Letters*, **2018**, 5, 154-157	1.9	10
299	Quantitative Analysis of Needle Navigation under Ultrasound Guidance in a Simulated Central Venous Line Procedure. *Ultrasound in Medicine and Biology*, **2018**, 44, 1891-1900	3.5	1
298	Myocardium Segmentation From DE MRI Using Multicomponent Gaussian Mixture Model and Coupled Level Set. *IEEE Transactions on Biomedical Engineering*, **2017**, 64, 2650-2661	5	12
297	Directed Acyclic Graph Continuous Max-Flow Image Segmentation for Unconstrained Label Orderings. *International Journal of Computer Vision*, **2017**, 123, 415-434	10.6	5
296	Patient-specific indirectly 3D printed mitral valves for pre-operative surgical modelling **2017**,		2
295	Ultra-High Field Template-Assisted Target Selection for Deep Brain Stimulation Surgery. *World Neurosurgery*, **2017**, 103, 531-537	2.1	9
294	Effects of line fiducial parameters and beamforming on ultrasound calibration. *Journal of Medical Imaging*, **2017**, 4, 015002	2.6	
293	Vision-Based Surgical Field Defogging. *IEEE Transactions on Medical Imaging*, **2017**, 36, 2021-2030	11.7	20
292	Which point-line registration? **2017**,		4
291	Development of a high frequency single-element ultrasound needle transducer for anesthesia delivery **2017**,		2
290	The role of visual and direct force feedback in robotics-assisted mitral valve annuloplasty. *International Journal of Medical Robotics and Computer Assisted Surgery*, **2017**, 13, e1787	2.9	7
289	Evaluation of ex-vivo 9.4T MRI in post-surgical specimens from temporal lobe epilepsy patients. *Journal of Neuroradiology*, **2017**, 44, 377-380	3.1	5
288	Contact-less stylus for surgical navigation: registration without digitization. *International Journal of Computer Assisted Radiology and Surgery*, **2017**, 12, 1231-1241	3.9	6
287	Hand-eye calibration for surgical cameras: a Procrustean Perspective-n-Point solution. *International Journal of Computer Assisted Radiology and Surgery*, **2017**, 12, 1141-1149	3.9	10
286	Investigation of hippocampal substructures in focal temporal lobe epilepsy with and without hippocampal sclerosis at 7T. *Journal of Magnetic Resonance Imaging*, **2017**, 45, 1359-1370	5.6	31
285	Hand-eye calibration using a target registration error model. *Healthcare Technology Letters*, **2017**, 4, 157-162	1.9	8
284	Analysis of Periodicity in Video Sequences Through Dynamic Linear Modeling. *Lecture Notes in Computer Science*, **2017**, 386-393	0.9	
283	Estimation of line-based target registration error **2016**,		2

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282	Optimization-based interactive segmentation interface for multiregion problems. *Journal of Medical Imaging*, **2016**, 3, 024003	2.6	2
281	Hierarchical max-flow segmentation framework for multi-atlas segmentation with Kohonen self-organizing map based Gaussian mixture modeling. *Medical Image Analysis*, **2016**, 27, 45-56	15.4	24
280	Uncalibrated stereo rectification and disparity range stabilization: a comparison of different feature detectors **2016**,		1
279	Generation and evaluation of an ultra-high-field atlas with applications in DBS planning **2016**,		8
278	Phantom study of an ultrasound guidance system for transcatheter aortic valve implantation. *Computerized Medical Imaging and Graphics*, **2016**, 50, 24-30	7.6	7
277	Image-Guided Procedures: Tools, Techniques, and Clinical Applications **2016**, 59-90		4
276	Individual feature maps: a patient-specific analysis tool with applications in temporal lobe epilepsy. *International Journal of Computer Assisted Radiology and Surgery*, **2016**, 11, 53-71	3.9	1
275	Shape complexes: the intersection of label orderings and star convexity constraints in continuous max-flow medical image segmentation. *Journal of Medical Imaging*, **2016**, 3, 044005	2.6	2
274	Stereoscopic Motion Magnification in Minimally-Invasive Robotic Prostatectomy. *Lecture Notes in Computer Science*, **2016**, 35-45	0.9	
273	Augmented Reality System for Ultrasound Guidance of Transcatheter Aortic Valve Implantation. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2016**, 11, 31-39	1.5	
272	Augmented Reality System for Ultrasound Guidance of Transcatheter Aortic Valve Implantation. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2016**, 11, 31-9; discussion 39	1.5	13
271	Diagnostic quality assessment of compressed sensing accelerated magnetic resonance neuroimaging. *Journal of Magnetic Resonance Imaging*, **2016**, 44, 433-44	5.6	17
270	In vivo MRI signatures of hippocampal subfield pathology in intractable epilepsy. *Human Brain Mapping*, **2016**, 37, 1103-19	5.9	45
269	Guided ultrasound calibration: where, how, and how many calibration fiducials. *International Journal of Computer Assisted Radiology and Surgery*, **2016**, 11, 889-98	3.9	18
268	Single slice US-MRI registration for neurosurgical MRI-guided US **2016**,		1
267	Usage of SWI (susceptibility weighted imaging) acquired at 7T for qualitative evaluation of temporal lobe epilepsy patients with histopathological and clinical correlation: An initial pilot study. *Journal of the Neurological Sciences*, **2016**, 369, 82-87	3.2	12
266	Comparison of semi-automated scar quantification techniques using high-resolution, 3-dimensional late-gadolinium-enhancement magnetic resonance imaging. *International Journal of Cardiovascular Imaging*, **2015**, 31, 349-57	2.5	18
265	Registration of 3D shapes under anisotropic scaling: Anisotropic-scaled iterative closest point algorithm. *International Journal of Computer Assisted Radiology and Surgery*, **2015**, 10, 867-78	3.9	18

264	Detection of temporal lobe epilepsy using support vector machines in multi-parametric quantitative MR imaging. *Computerized Medical Imaging and Graphics*, **2015**, 41, 14-28	7.6	30
263	Visual Enhancement of MR Angiography Images to Facilitate Planning of Arteriovenous Malformation Interventions. *ACM Transactions on Applied Perception*, **2015**, 12, 1-15	1.4	2
262	Acoustic characterization of polyvinyl chloride and self-healing silicone as phantom materials **2015**,		2
261	Ultrasound guidance for beating heart mitral valve repair augmented by synthetic dynamic CT. *IEEE Transactions on Medical Imaging*, **2015**, 34, 2025-35	11.7	9
260	Robust ultrasound probe tracking: initial clinical experiences during robot-assisted partial nephrectomy. *International Journal of Computer Assisted Radiology and Surgery*, **2015**, 10, 1905-13	3.9	22
259	Right ventricle segmentation from cardiac MRI: a collation study. *Medical Image Analysis*, **2015**, 19, 187-202	13.4	144
258	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. *Journal of Neuroimaging*, **2015**, 25, 875-82	2.8	113
257	Training for planning tumour resection: augmented reality and human factors. *IEEE Transactions on Biomedical Engineering*, **2015**, 62, 1466-77	5	47
256	Dynamic heart phantom with functional mitral and aortic valves **2015**,		5
255	Detection and visualization of dural pulsation for spine needle interventions. *International Journal of Computer Assisted Radiology and Surgery*, **2015**, 10, 947-58	3.9	9
254	Line fiducial material and thickness considerations for ultrasound calibration **2015**,		6
253	Optimization-based interactive segmentation interface for multi-region problems **2015**,		2
252	Beating heart mitral valve repair with integrated ultrasound imaging **2015**,		1
251	Vertebroplasty Performance on Simulator for 19 Surgeons Using Hierarchical Task Analysis. *IEEE Transactions on Medical Imaging*, **2015**, 34, 1730-7	11.7	16
250	Registration of in-vivo to ex-vivo MRI of surgically resected specimens: a pipeline for histology to in-vivo registration. *Journal of Neuroscience Methods*, **2015**, 241, 53-65	3	25
249	Magnetic resonance imaging and histology correlation in the neocortex in temporal lobe epilepsy. *Annals of Neurology*, **2015**, 77, 237-50	9.4	21
248	A mitral annulus tracking approach for navigation of off-pump beating heart mitral valve repair. *Medical Physics*, **2015**, 42, 456-68	4.4	7
247	Simultaneous Estimation of Feature Correspondence and Stereo Object Pose with Application to Ultrasound Augmented Robotic Laparoscopy. *Lecture Notes in Computer Science*, **2015**, 134-144	0.9	1

246	Augmented Reality Ultrasound Guidance for Central Line Procedures: Preliminary Results. *Lecture Notes in Computer Science*, **2015**, 11-20	0.9	2
245	An Iterative Closest Point Framework for Ultrasound Calibration. *Lecture Notes in Computer Science*, **2015**, 69-79	0.9	1
244	In vivo normative atlas of the hippocampal subfields using multi-echo susceptibility imaging at 7 Tesla. *Human Brain Mapping*, **2014**, 35, 3588-601	5.9	34
243	Stationary wavelet transform for under-sampled MRI reconstruction. *Magnetic Resonance Imaging*, **2014**, 32, 1353-64	3.3	20
242	Feasibility of real-time workflow segmentation for tracked needle interventions. *IEEE Transactions on Biomedical Engineering*, **2014**, 61, 1720-8	5	13
241	Regional assessment of cardiac left ventricular myocardial function via MRI statistical features. *IEEE Transactions on Medical Imaging*, **2014**, 33, 481-94	11.7	55
240	Electromagnetic tracking in medicine--a review of technology, validation, and applications. *IEEE Transactions on Medical Imaging*, **2014**, 33, 1702-25	11.7	233
239	Interactive Hierarchical-Flow Segmentation of Scar Tissue From Late-Enhancement Cardiac MR Images. *IEEE Transactions on Medical Imaging*, **2014**, 33, 159-72	11.7	49
238	Synthetic aperture imaging in ultrasound calibration **2014**,		2
237	Max-IDEAL: a max-flow based approach for IDEAL water/fat separation. *Magnetic Resonance in Medicine*, **2014**, 72, 510-21	4.4	17
236	Motion magnification for endoscopic surgery **2014**,		10
235	High-resolution 3-dimensional late gadolinium enhancement scar imaging in surgically corrected Tetralogy of Fallot: clinical feasibility of volumetric quantification and visualization. *Journal of Cardiovascular Magnetic Resonance*, **2014**, 16, 76	6.9	17
234	Solving for free-hand and real-time 3D ultrasound calibration with anisotropic orthogonal Procrustes analysis **2014**,		3
233	Quantitative relaxometry and diffusion MRI for lateralization in MTS and non-MTS temporal lobe epilepsy. *Epilepsy Research*, **2014**, 108, 506-16	3	12
232	Navigated simulator for spinal needle interventions. *Studies in Health Technology and Informatics*, **2014**, 196, 56-60	0.5	3
231	Utility of an image-based technique to detect changes in joint congruency following simulated joint injury and repair: an in vitro study of the elbow. *Journal of Biomechanics*, **2013**, 46, 677-82	2.9	13
230	Intra-operative 2-D ultrasound and dynamic 3-D aortic model registration for magnetic navigation of transcatheter aortic valve implantation. *IEEE Transactions on Medical Imaging*, **2013**, 32, 2152-65	11.7	13
229	Image registration of ex-vivo MRI to sparsely sectioned histology of hippocampal and neocortical temporal lobe specimens. *NeuroImage*, **2013**, 83, 770-81	7.9	29

228	Intra-thoracic fat volume is associated with myocardial infarction in patients with metabolic syndrome. *Journal of Cardiovascular Magnetic Resonance*, **2013**, 15, 77	6.9	8
227	Surface-Based CT-TEE Registration of the Aortic Root. *IEEE Transactions on Biomedical Engineering*, **2013**, 60, 3382-90	5	7
226	Magnetic navigation for thoracic aortic stent-graft deployment using ultrasound image guidance. *IEEE Transactions on Biomedical Engineering*, **2013**, 60, 862-71	5	12
225	Left ventricle segmentation in MRI via convex relaxed distribution matching. *Medical Image Analysis*, **2013**, 17, 1010-24	15.4	51
224	A navigation platform for guidance of beating heart transapical mitral valve repair. *IEEE Transactions on Biomedical Engineering*, **2013**, 60, 1034-40	5	13
223	On mixed reality environments for minimally invasive therapy guidance: systems architecture, successes and challenges in their implementation from laboratory to clinic. *Computerized Medical Imaging and Graphics*, **2013**, 37, 83-97	7.6	35
222	Use of a Mixed-Reality System to Improve the Planning of Brain Tumour Resections: Preliminary Results. *Lecture Notes in Computer Science*, **2013**, 55-66	0.9	3
221	Introduction to special section on surgical robotics. *IEEE Transactions on Biomedical Engineering*, **2013**, 60, 887-91	5	5
220	Development of an image-based technique to examine joint congruency at the elbow. *Computer Methods in Biomechanics and Biomedical Engineering*, **2013**, 16, 280-90	2.1	25
219	Robust intraoperative US probe tracking using a monocular endoscopic camera. *Lecture Notes in Computer Science*, **2013**, 16, 363-70	0.9	12
218	Right ventricle segmentation with probability product kernel constraints. *Lecture Notes in Computer Science*, **2013**, 16, 509-17	0.9	4
217	The Role of Augmented Reality in Training the Planning of Brain Tumor Resection. *Lecture Notes in Computer Science*, **2013**, 241-248	0.9	7
216	Towards CT Enhanced Ultrasound Guidance for Off-pump Beating Heart Mitral Valve Repair. *Lecture Notes in Computer Science*, **2013**, 136-143	0.9	1
215	Generation of Synthetic 4D Cardiac CT Images by Deformation from Cardiac Ultrasound. *Lecture Notes in Computer Science*, **2013**, 132-141	0.9	2
214	Generation of Synthetic 4D Cardiac CT Images for Guidance of Minimally Invasive Beating Heart Interventions. *Lecture Notes in Computer Science*, **2013**, 11-20	0.9	1
213	Evaluating the Effect of Three-Dimensional Visualization on Force Application and Performance Time during Robotics-Assisted Mitral Valve Repair. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2013**, 8, 199-205	1.5	
212	The critical role of imaging navigation and guidance in transcatheter aortic valve implantation. *Journal of Thoracic and Cardiovascular Surgery*, **2012**, 143, 1241-3	1.5	6
211	US-fluoroscopy registration for transcatheter aortic valve implantation. *IEEE Transactions on Biomedical Engineering*, **2012**, 59, 1444-53	5	33

210	Accuracy considerations in image-guided cardiac interventions: experience and lessons learned. *International Journal of Computer Assisted Radiology and Surgery*, **2012**, 7, 13-25	3.9	19
209	GPU-based visualization and synchronization of 4-D cardiac MR and ultrasound images. *IEEE Transactions on Information Technology in Biomedicine*, **2012**, 16, 878-90		5
208	Measurement of joint kinematics using a conventional clinical single-perspective flat-panel radiography system. *Medical Physics*, **2012**, 39, 6090-103	4.4	2
207	Functional magnetic resonance imaging for language mapping in temporal lobe epilepsy. *Epilepsy Research & Treatment*, **2012**, 2012, 198183		12
206	Towards real-time 3D US-CT registration on the beating heart for guidance of minimally invasive cardiac interventions **2012**,		7
205	Accuracy assessment of an imaging technique to examine ulnohumeral joint congruency during elbow flexion. *Computer Aided Surgery*, **2012**, 17, 142-52		12
204	A phantom model as a teaching modality for laparoscopic partial nephrectomy. *Journal of Endourology*, **2012**, 26, 1-5	2.7	21
203	Augmented reality image guidance improves navigation for beating heart mitral valve repair. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2012**, 7, 274-81	1.5	15
202	An augmented reality platform for planning of minimally invasive cardiac surgeries **2012**,		6
201	Evaluation of mitral valve replacement anchoring in a phantom **2012**,		2
200	Feature identification for image-guided transcatheter aortic valve implantation **2012**,		5
199	Predicting target vessel location on robot-assisted coronary artery bypass graft using CT to ultrasound registration. *Medical Physics*, **2012**, 39, 1579-87	4.4	3
198	Perceptual enhancement of arteriovenous malformation in MRI angiography displays **2012**,		3
197	Augmented Reality Image Guidance Improves Navigation for Beating Heart Mitral Valve Repair. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2012**, 7, 274-281	1.5	1
196	A fast convex optimization approach to segmenting 3D scar tissue from delayed-enhancement cardiac MR images. *Lecture Notes in Computer Science*, **2012**, 15, 659-66	0.9	9
195	A convex relaxation approach to fat/water separation with minimum label description. *Lecture Notes in Computer Science*, **2012**, 15, 519-26	0.9	1
194	Global assessment of cardiac function using image statistics in MRI. *Lecture Notes in Computer Science*, **2012**, 15, 535-43	0.9	14
193	A Navigation Platform for Guidance of Beating Heart Transapical Mitral Valve Repair. *Lecture Notes in Computer Science*, **2012**, 84-93	0.9	1

192	Medical Image Volumetric Visualization: Algorithms, Pipelines, and Surgical Applications **2011**, 291-317		1
191	Medical Image Registration **2011**, 227-245		1
190	Stem abutment affects alignment of the humeral component in computer-assisted elbow arthroplasty. *Journal of Shoulder and Elbow Surgery*, **2011**, 20, 891-8	4.3	14
189	Investigating perioperative heart migration during robot-assisted coronary artery bypass grafting interventions. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2011**, 6, 323-30	1.5	1
188	Does stereo-endoscopy improve neurosurgical targeting in 3rdventriculostomy? **2011**,		1
187	Volume visualization: a technical overview with a focus on medical applications. *Journal of Digital Imaging*, **2011**, 24, 640-64	5.3	61
186	Rapid scalar value classification and volume clipping for interactive 3D medical image visualization. *Visual Computer*, **2011**, 27, 3-19	2.3	11
185	Three-dimensional somatotopic organization and probabilistic mapping of motor responses from the human internal capsule. *Journal of Neurosurgery*, **2011**, 114, 1706-14	3.2	22
184	Fusion and visualization of intraoperative cortical images with preoperative models for epilepsy surgical planning and guidance. *Computer Aided Surgery*, **2011**, 16, 149-60		11
183	Towards Model-Enhanced Real-Time Ultrasound Guided Cardiac Interventions **2011**,		3
182	Preliminary assessment of a renal tumor materials model. *Journal of Endourology*, **2011**, 25, 1371-5	2.7	2
181	Accuracy assessment of fluoroscopy-transesophageal echocardiography registration **2011**,		2
180	A unified framework for voxel classification and triangulation **2011**,		2
179	Feature-based US to CT registration of the aortic root **2011**,		4
178	Efficient 3D rendering for web-based medical imaging software: a proof of concept **2011**,		2
177	The effect of CT dose on glenohumeral joint congruency measurements using 3D reconstructed patient-specific bone models. *Physics in Medicine and Biology*, **2011**, 56, 6615-24	3.8	1
176	A convex max-flow segmentation of LV using subject-specific distributions on cardiac MRI. *Lecture Notes in Computer Science*, **2011**, 22, 171-83	0.9	3
175	Assessment of regional myocardial function via statistical features in MR images. *Lecture Notes in Computer Science*, **2011**, 14, 107-14	0.9	6

174	Investigating Perioperative Heart Migration during Robot-Assisted Coronary Artery Bypass Grafting Interventions. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2011**, 6, 323-330	1.5	
173	Augmented Reality Image Guidance during Off-Pump Mitral Valve Replacement through the Guiraudon Universal Cardiac Introducer. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2010**, 5, 430-438	1.5	
172	Automatic image guidance for prostate IMRT using low dose CBCT. *Medical Physics*, **2010**, 37, 3677-86	4.4	4
171	Integration of trans-esophageal echocardiography with magnetic tracking technology for cardiac interventions **2010**,		7
170	How accurate is accurate enough? A brief overview on accuracy considerations in image-guided cardiac interventions. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2010**, 2010, 2313-6	0.9	10
169	Preoperative planning of robotics-assisted minimally invasive coronary artery bypass grafting **2010**,		6
168	Augmented reality guidance system for peripheral nerve blocks **2010**,		1
167	Rapid block matching based nonlinear registration on GPU for image guided radiation therapy **2010**,		5
166	Estimating heart shift and morphological changes during minimally invasive cardiac interventions **2010**,		4
165	Fused whole-heart coronary and myocardial scar imaging using 3-T CMR. Implications for planning of cardiac resynchronization therapy and coronary revascularization. *JACC: Cardiovascular Imaging*, **2010**, 3, 921-30	8.4	26
164	Image-guided interventions: technology review and clinical applications. *Annual Review of Biomedical Engineering*, **2010**, 12, 119-42	12	281
163	Image-based navigation improves the positioning of the humeral component in total elbow arthroplasty. *Journal of Shoulder and Elbow Surgery*, **2010**, 19, 533-43	4.3	27
162	Virtual and augmented medical imaging environments: enabling technology for minimally invasive cardiac interventional guidance. *IEEE Reviews in Biomedical Engineering*, **2010**, 3, 25-47	6.4	21
161	Virtual reality imaging with real-time ultrasound guidance for facet joint injection: a proof of concept. *Anesthesia and Analgesia*, **2010**, 110, 1461-3	3.9	13
160	Evaluation of model-enhanced ultrasound-assisted interventional guidance in a cardiac phantom. *IEEE Transactions on Biomedical Engineering*, **2010**, 57, 2209-18	5	14
159	Target tracking errors for 5D and 6D spatial measurement systems. *IEEE Transactions on Medical Imaging*, **2010**, 29, 879-94	11.7	3
158	Three-Dimensional Ultrasound Probe Pose Estimation from Single-Perspective X-Rays for Image-Guided Interventions. *Lecture Notes in Computer Science*, **2010**, 344-352	0.9	4
157	Predicting target vessel location for improved planning of robot-assisted CABG procedures. *Lecture Notes in Computer Science*, **2010**, 13, 205-12	0.9	4

156	Fused video and ultrasound images for minimally invasive partial nephrectomy: a phantom study. *Lecture Notes in Computer Science*, **2010**, 13, 408-15	0.9	24
155	Off-Pump Atrial Septal Defect Closure Using the Universal Cardiac Introducer□ . *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2009**, 4, 20-26	1.5	2
154	In vitro cardiac catheter navigation via augmented reality surgical guidance **2009**,		4
153	Targeting accuracy under model-to-subject misalignments in model-guided cardiac surgery. *Lecture Notes in Computer Science*, **2009**, 12, 361-8	0.9	5
152	Real-time estimation of FLE for point-based registration **2009**,		3
151	Validation of four-dimensional ultrasound for targeting in minimally-invasive beating-heart surgery **2009**,		4
150	Dynamic 2D ultrasound and 3D CT image registration of the beating heart. *IEEE Transactions on Medical Imaging*, **2009**, 28, 1179-89	11.7	52
149	Real-time estimation of FLE statistics for 3-D tracking with point-based registration. *IEEE Transactions on Medical Imaging*, **2009**, 28, 1384-98	11.7	14
148	Mapping of cardiac electrophysiology onto a dynamic patient-specific heart model. *IEEE Transactions on Medical Imaging*, **2009**, 28, 1870-80	11.7	8
147	Rapid dynamic image registration of the beating heart for diagnosis and surgical navigation. *IEEE Transactions on Medical Imaging*, **2009**, 28, 1802-14	11.7	34
146	Inside the beating heart: an in vivo feasibility study on fusing pre- and intra-operative imaging for minimally invasive therapy. *International Journal of Computer Assisted Radiology and Surgery*, **2009**, 4, 113-23	3.9	28
145	High-quality cardiac image dynamic visualization with feature enhancement and virtual surgical tool inclusion. *Visual Computer*, **2009**, 25, 1019-1035	2.3	2
144	Dynamic real-time 4D cardiac MDCT image display using GPU-accelerated volume rendering. *Computerized Medical Imaging and Graphics*, **2009**, 33, 461-76	7.6	19
143	Computer assisted surgery of the distal humerus can employ contralateral images for pre-operative planning, registration, and surgical intervention. *Journal of Shoulder and Elbow Surgery*, **2009**, 18, 469-77	4.3	21
142	Off-pump atrial septal defect closure using the universal cardiac introducer□ : creation of models of atrial septal defects in the pig access and surgical technique. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2009**, 4, 20-6	1.5	7
141	Error analysis of marker-based object localization using a single-plane XRII. *Medical Physics*, **2009**, 36, 190-200	4.4	5
140	A Software Platform for Real-Time Visualization and Manipulation of 4D Cardiac Images. *Lecture Notes in Computer Science*, **2009**, 396-406	0.9	2
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