Terry M Peters

List of Publications by Citations

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	Transcranial magnetic stimulation during positron emission tomography: a new method for studying connectivity of the human cerebral cortex. *Journal of Neuroscience*, **1997**, 17, 3178-84	6.6	577
334	Rapid combined T1 and T2 mapping using gradient recalled acquisition in the steady state. *Magnetic Resonance in Medicine*, **2003**, 49, 515-26	4.4	548
333	High-resolution T1 and T2 mapping of the brain in a clinically acceptable time with DESPOT1 and DESPOT2. *Magnetic Resonance in Medicine*, **2005**, 53, 237-41	4.4	345
332	Image-guided interventions: technology review and clinical applications. *Annual Review of Biomedical Engineering*, **2010**, 12, 119-42	12	281
331	An algorithmic overview of surface registration techniques for medical imaging. *Medical Image Analysis*, **2000**, 4, 201-17	15.4	265
330	Electromagnetic tracking in medicine--a review of technology, validation, and applications. *IEEE Transactions on Medical Imaging*, **2014**, 33, 1702-25	11.7	233
329	Dose-dependent reduction of cerebral blood flow during rapid-rate transcranial magnetic stimulation of the human sensorimotor cortex. *Journal of Neurophysiology*, **1998**, 79, 1102-7	3.2	195
328	Image-guidance for surgical procedures. *Physics in Medicine and Biology*, **2006**, 51, R505-40	3.8	184
327	Intraoperative ultrasound for guidance and tissue shift correction in image-guided neurosurgery. *Medical Physics*, **2000**, 27, 787-800	4.4	181
326	Right ventricle segmentation from cardiac MRI: a collation study. *Medical Image Analysis*, **2015**, 19, 187-202	15.4	144
325	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. *Journal of Neuroimaging*, **2015**, 25, 875-82	2.8	113
324	Image reconstruction from finite numbers of projections. *Journal of Physics A: Mathematical Nuclear and General*, **1973**, 6, 361-382		112
323	Frameless stereotaxy for surgery of the epilepsies: preliminary experience. Technical note. *Journal of Neurosurgery*, **1994**, 81, 629-33	3.2	106
322	MRI of amygdala and hippocampus in temporal lobe epilepsy. *Journal of Computer Assisted Tomography*, **1993**, 17, 206-10	2.2	95
321	Determination of optimal angles for variable nutation proton magnetic spin-lattice, T1, and spin-spin, T2, relaxation times measurement. *Magnetic Resonance in Medicine*, **2004**, 51, 194-9	4.4	89
320	Three-dimensional multimodal image-guidance for neurosurgery. *IEEE Transactions on Medical Imaging*, **1996**, 15, 121-8	11.7	88
319	Validation of dynamic heart models obtained using non-linear registration for virtual reality training, planning, and guidance of minimally invasive cardiac surgeries. *Medical Image Analysis*, **2004**, 8, 387-401	15.4	82

318	Algorithms for Fast Back- and Re-Projection in Computed Tomography. *IEEE Transactions on Nuclear Science*, **1981**, 28, 3641-3647	1.7	81
317	Compensation of multi-dimensional selective excitation pulses using measured k-space trajectories. *Magnetic Resonance in Medicine*, **1995**, 34, 446-56	4.4	76
316	Automated atlas integration and interactive three-dimensional visualization tools for planning and guidance in functional neurosurgery. *IEEE Transactions on Medical Imaging*, **1998**, 17, 672-80	11.7	73
315	Three-dimensional database of subcortical electrophysiology for image-guided stereotactic functional neurosurgery. *IEEE Transactions on Medical Imaging*, **2003**, 22, 93-104	11.7	71
314	Image-guided surgery: from X-rays to virtual reality. *Computer Methods in Biomechanics and Biomedical Engineering*, **2000**, 4, 27-57	2.1	70
313	Dynamic 3-D virtual fixtures for minimally invasive beating heart procedures. *IEEE Transactions on Medical Imaging*, **2008**, 27, 1061-70	11.7	67
312	A statistical model for point-based target registration error with anisotropic fiducial localizer error. *IEEE Transactions on Medical Imaging*, **2008**, 27, 378-90	11.7	63
311	Automatic fusion of freehand endoscopic brain images to three-dimensional surfaces: creating stereoscopic panoramas. *IEEE Transactions on Medical Imaging*, **2002**, 21, 23-30	11.7	63
310	FEM-based evaluation of deformable image registration for radiation therapy. *Physics in Medicine and Biology*, **2007**, 52, 4721-38	3.8	62
309	Volume visualization: a technical overview with a focus on medical applications. *Journal of Digital Imaging*, **2011**, 24, 640-64	5.3	61
308	Intraoperative US in interactive image-guided neurosurgery. *Radiographics*, **1998**, 18, 1019-27	5.4	60
307	Optimal location of thalamotomy lesions for tremor associated with Parkinson disease: a probabilistic analysis based on postoperative magnetic resonance imaging and an integrated digital atlas. *Journal of Neurosurgery*, **2002**, 96, 854-66	3.2	57
306	Visualization of thalamic nuclei on high resolution, multi-averaged T1 and T2 maps acquired at 1.5 T. *Human Brain Mapping*, **2005**, 25, 353-9	5.9	56
305	Dose distributions in dynamic stereotactic radiosurgery. *Medical Physics*, **1987**, 14, 780-9	4.4	56
304	Regional assessment of cardiac left ventricular myocardial function via MRI statistical features. *IEEE Transactions on Medical Imaging*, **2014**, 33, 481-94	11.7	55
303	2D-3D registration of coronary angiograms for cardiac procedure planning and guidance. *Medical Physics*, **2005**, 32, 3737-49	4.4	54
302	An inverse problem approach to the correction of distortion in EPI images. *IEEE Transactions on Medical Imaging*, **2000**, 19, 681-9	11.7	53
301	Dynamic 2D ultrasound and 3D CT image registration of the beating heart. *IEEE Transactions on Medical Imaging*, **2009**, 28, 1179-89	11.7	52

300	Left ventricle segmentation in MRI via convex relaxed distribution matching. *Medical Image Analysis*, **2013**, 17, 1010-24	15.4	51
299	Synthetic T1-weighted brain image generation with incorporated coil intensity correction using DESPOT1. *Magnetic Resonance Imaging*, **2006**, 24, 1241-8	3.3	51
298	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
297	An integrated range-sensing, segmentation and registration framework for the characterization of intra-surgical brain deformations in image-guided surgery. *Computer Vision and Image Understanding*, **2003**, 89, 226-251	4.3	49
296	Training for planning tumour resection: augmented reality and human factors. *IEEE Transactions on Biomedical Engineering*, **2015**, 62, 1466-77	5	47
295	Computed tomography with fan beam geometry. *Journal of Computer Assisted Tomography*, **1977**, 1, 429-36	2.2	47
294	Segmentation of thalamic nuclei using a modified k-means clustering algorithm and high-resolution quantitative magnetic resonance imaging at 1.5 T. *NeuroImage*, **2007**, 34, 117-26	7.9	46
293	In vivo MRI signatures of hippocampal subfield pathology in intractable epilepsy. *Human Brain Mapping*, **2016**, 37, 1103-19	5.9	45
292	Comparison of relative accuracy between a mechanical and an optical position tracker for image-guided neurosurgery. *Journal of Image Guided Surgery*, **1995**, 1, 30-4		43
291	A potential field model using generalized sigmoid functions. *IEEE Transactions on Systems, Man, and Cybernetics*, **2007**, 37, 477-84		38
290	Rapid T2 estimation with phase-cycled variable nutation steady-state free precession. *Magnetic Resonance in Medicine*, **2004**, 52, 435-9	4.4	37
289	Multimodality image integration for stereotactic surgical planning. *Medical Physics*, **1991**, 18, 167-77	4.4	37
288	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
287	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
286	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
285	En bloc exclusion of the pulmonary vein region in the pig using off pump, beating, intra-cardiac surgery: a pilot study of minimally invasive surgery for atrial fibrillation. *Annals of Thoracic Surgery*, **2005**, 80, 1417-23	2.7	34
284	Quantitative diffusion imaging with steady-state free precession. *Magnetic Resonance in Medicine*, **2004**, 51, 428-33	4.4	34
283	Dynamic 3D ultrasound and MR image registration of the beating heart. *Lecture Notes in Computer Science*, **2005**, 8, 171-8	0.9	34

282	US-fluoroscopy registration for transcatheter aortic valve implantation. *IEEE Transactions on Biomedical Engineering*, **2012**, 59, 1444-53	5	33
281	Surgical targeting accuracy analysis of six methods for subthalamic nucleus deep brain stimulation. *Computer Aided Surgery*, **2007**, 12, 325-34		33
280	Ultrasound Probe Tracking for Real-Time Ultrasound/MRI Overlay and Visualization of Brain Shift. *Lecture Notes in Computer Science*, **1999**, 920-927	0.9	33
279	Curvilinear reconstruction of 3D magnetic resonance imaging in patients with partial epilepsy: a pilot study. *Magnetic Resonance Imaging*, **1995**, 13, 1107-12	3.3	33
278	Challenges in image-guided therapy system design. *NeuroImage*, **2007**, 37 Suppl 1, S144-51	7.9	32
277	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
276	Virtual reality-enhanced ultrasound guidance: a novel technique for intracardiac interventions. *Computer Aided Surgery*, **2008**, 13, 82-94		31
275	Integration of stereoscopic DSA and 3D MRI for image-guided neurosurgery. *Computerized Medical Imaging and Graphics*, **1994**, 18, 289-99	7.6	31
274	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
273	Dose distributions in radiosurgery. *Medical Physics*, **1990**, 17, 296-304	4.4	30
272	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
271	Advanced Endoscopic Navigation: Surgical Big Data, Methodology, and Applications. *Annual Review of Biomedical Engineering*, **2018**, 20, 221-251	12	28
270	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
269	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
268	Ultrasound/MRI Overlay with Image Warping for Neurosurgery. *Lecture Notes in Computer Science*, **2000**, 106-114	0.9	27
267	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
266	Image guidance for spinal facet injections using tracked ultrasound. *Lecture Notes in Computer Science*, **2009**, 12, 516-23	0.9	26
265	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

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264	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
263	Visualization and navigation system development and application for stereotactic deep-brain neurosurgeries. *Computer Aided Surgery*, **2006**, 11, 231-9		25
262	Real-time fusion of endoscopic views with dynamic 3-D cardiac images: a phantom study. *IEEE Transactions on Medical Imaging*, **2005**, 24, 1207-15	11.7	25
261	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
260	High-performance medical image registration using new optimization techniques. *IEEE Transactions on Information Technology in Biomedicine*, **2006**, 10, 344-53		24
259	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
258	A hardware and software protocol for the evaluation of electromagnetic tracker accuracy in the clinical environment: a multi-center study **2007**,		23
257	A High Resolution Dynamic Heart Model Based on Averaged MRI Data. *Lecture Notes in Computer Science*, **2003**, 549-555	0.9	23
256	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
255	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
254	Three-dimensional reconstruction of vascular trees. Theory and methodology. *Medical Physics*, **1996**, 23, 197-204	4.4	22
253	Magnetic resonance imaging and histology correlation in the neocortex in temporal lobe epilepsy. *Annals of Neurology*, **2015**, 77, 237-50	9.4	21
252	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
251	A phantom model as a teaching modality for laparoscopic partial nephrectomy. *Journal of Endourology*, **2012**, 26, 1-5	2.7	21
250	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
249	Vision-Based Surgical Field Defogging. *IEEE Transactions on Medical Imaging*, **2017**, 36, 2021-2030	11.7	20
248	Stationary wavelet transform for under-sampled MRI reconstruction. *Magnetic Resonance Imaging*, **2014**, 32, 1353-64	3.3	20
247	Generalized 3D nonlinear transformations for medical imaging: an object-oriented implementation in VTK. *Computerized Medical Imaging and Graphics*, **2003**, 27, 255-65	7.6	20

246	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
245	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
244	Mitral valve implantation using off-pump closed beating intracardiac surgery: a feasibility study. *Interactive Cardiovascular and Thoracic Surgery*, **2007**, 6, 603-7	1.8	19
243	A real time finite element based tissue simulation method incorporating nonlinear elastic behavior. *Computer Methods in Biomechanics and Biomedical Engineering*, **2005**, 8, 177-89	2.1	19
242	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
241	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
240	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
239	Max-IDEAL: a max-flow based approach for IDEAL water/fat separation. *Magnetic Resonance in Medicine*, **2014**, 72, 510-21	4.4	17
238	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
237	Diagnostic quality assessment of compressed sensing accelerated magnetic resonance neuroimaging. *Journal of Magnetic Resonance Imaging*, **2016**, 44, 433-44	5.6	17
236	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
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234	A real time hyperelastic tissue model. *Computer Methods in Biomechanics and Biomedical Engineering*, **2007**, 10, 185-93	2.1	16
233	Laser Projection Augmented Reality System for Computer Assisted Surgery. *Lecture Notes in Computer Science*, **2003**, 239-246	0.9	16
232	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
231	A Fractional Address Accumulator for Fast Back-Projection. *IEEE Transactions on Nuclear Science*, **1981**, 28, 3648-3650	1.7	15
230	Towards subject-specific models of the dynamic heart for image-guided mitral valve surgery **2007**, 10, 94-101		15
229	Augmented reality guidance in cerebrovascular surgery using microscopic video enhancement. *Healthcare Technology Letters*, **2018**, 5, 158-161	1.9	15

228	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
227	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
226	Evaluation of model-enhanced ultrasound-assisted interventional guidance in a cardiac phantom. *IEEE Transactions on Biomedical Engineering*, **2010**, 57, 2209-18	5	14
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224	Automatic target and trajectory identification for deep brain stimulation (DBS) procedures **2007**, 10, 483-90		14
223	Global assessment of cardiac function using image statistics in MRI. *Lecture Notes in Computer Science*, **2012**, 15, 535-43	0.9	14
222	The semiotics of medical image Segmentation. *Medical Image Analysis*, **2018**, 44, 54-71	15.4	14
221	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
220	Quantification of local geometric distortion in structural magnetic resonance images: Application to ultra-high fields. *NeuroImage*, **2018**, 168, 141-151	7.9	13
219	Feasibility of real-time workflow segmentation for tracked needle interventions. *IEEE Transactions on Biomedical Engineering*, **2014**, 61, 1720-8	5	13
218	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
217	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
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215	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
214	The effect of anatomic landmark selection of the distal humerus on registration accuracy in computer-assisted elbow surgery. *Journal of Shoulder and Elbow Surgery*, **2008**, 17, 833-43	4.3	13
213	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
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211	An accurate registration of the BigBrain dataset with the MNI PD25 and ICBM152 atlases. *Scientific Data*, **2019**, 6, 210	8.2	12

210	Magnetic navigation for thoracic aortic stent-graft deployment using ultrasound image guidance. *IEEE Transactions on Biomedical Engineering*, **2013**, 60, 862-71	5	12
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207	Accuracy assessment of an imaging technique to examine ulnohumeral joint congruency during elbow flexion. *Computer Aided Surgery*, **2012**, 17, 142-52		12
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205	Towards a Medical Virtual Reality Environment for Minimally Invasive Cardiac Surgery. *Lecture Notes in Computer Science*, **2008**, 1-11	0.9	12
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202	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
201	Development and application of functional databases for planning deep-brain neurosurgical procedures. *Lecture Notes in Computer Science*, **2005**, 8, 835-42	0.9	12
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199	Fusion and visualization of intraoperative cortical images with preoperative models for epilepsy surgical planning and guidance. *Computer Aided Surgery*, **2011**, 16, 149-60		11
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182	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
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167	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
166	Phantom study of an ultrasound guidance system for transcatheter aortic valve implantation. *Computerized Medical Imaging and Graphics*, **2016**, 50, 24-30	7.6	7
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