

Neil T Clancy

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

843
citations

567281

15
h-index

501196

28
g-index

47
all docs

47
docs citations

47
times ranked

973
citing authors

#	ARTICLE	IF	CITATIONS
1	Multisensor perfusion assessment cohort study: Preliminary evidence toward a standardized assessment of indocyanine green fluorescence in colorectal surgery. <i>Surgery</i> , 2022, 172, 69-73.	1.9	6
2	Stain-free identification of tissue pathology using a generative adversarial network to infer nanomechanical signatures. <i>Nanoscale Advances</i> , 2021, 3, 6403-6414.	4.6	1
3	Intraoperative colon perfusion assessment using multispectral imaging. <i>Biomedical Optics Express</i> , 2021, 12, 7556.	2.9	12
4	Surgical spectral imaging. <i>Medical Image Analysis</i> , 2020, 63, 101699.	11.6	82
5	Estimation of tissue oxygen saturation from RGB images and sparse hyperspectral signals based on conditional generative adversarial network. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 987-995.	2.8	10
6	Use of biomedical photonics in gynecological surgery: a uterine transplantation model. <i>Future Science OA</i> , 2018, 4, FSO286.	1.9	2
7	Spectral Imaging Of Thermal Damage Induced During Microwave Ablation In The Liver. , 2018, 2018, 3001-3004.		5
8	Use of Laser Speckle Contrast Analysis during pelvic surgery in a uterine transplantation model. <i>Future Science OA</i> , 2018, 4, FSO324.	1.9	2
9	Dual-modality endoscopic probe for tissue surface shape reconstruction and hyperspectral imaging enabled by deep neural networks. <i>Medical Image Analysis</i> , 2018, 48, 162-176.	11.6	44
10	Augmented reality needle ablation guidance tool for irreversible electroporation in the pancreas. , 2018, , .		19
11	Tissue classification for laparoscopic image understanding based on multispectral texture analysis. <i>Journal of Medical Imaging</i> , 2017, 4, 015001.	1.5	21
12	Bayesian Estimation of Intrinsic Tissue Oxygenation and Perfusion From RGB Images. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1491-1501.	8.9	12
13	Endoscopic Depth Measurement and Super-Spectral-Resolution Imaging. <i>Lecture Notes in Computer Science</i> , 2017, , 39-47.	1.3	4
14	Fast Estimation of Haemoglobin Concentration in Tissue Via Wavelet Decomposition. <i>Lecture Notes in Computer Science</i> , 2017, , 100-108.	1.3	1
15	Multispectral imaging of organ viability during uterine transplantation surgery in rabbits and sheep. <i>Journal of Biomedical Optics</i> , 2016, 21, 106006.	2.6	23
16	Tissue classification for laparoscopic image understanding based on multispectral texture analysis. , 2016, , .		4
17	Robust near real-time estimation of physiological parameters from megapixel multispectral images with inverse Monte Carlo and random forest regression. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 909-917.	2.8	37
18	Inference of Tissue Haemoglobin Concentration from Stereo RGB. <i>Lecture Notes in Computer Science</i> , 2016, , 50-58.	1.3	3

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19	Flexible Multimode Endoscope for Tissue Reflectance and Autofluorescence Hyperspectral Imaging. , 2016, , .		1
20	Intraoperative measurement of bowel oxygen saturation using a multispectral imaging laparoscope. Biomedical Optics Express, 2015, 6, 4179.	2.9	54
21	Imaging the spectral reflectance properties of bipolar radiofrequency-fused bowel tissue. , 2015, , .		1
22	An endoscopic structured light system using multispectral detection. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1941-1950.	2.8	19
23	Video-rate dual polarization multispectral endoscopic imaging. , 2015, , .		4
24	Dual multispectral and 3D structured light laparoscope. Proceedings of SPIE, 2015, , .	0.8	3
25	Robust surface tracking combining features, intensity and illumination compensation. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1915-1926.	2.8	29
26	Tissue Surface Reconstruction Aided by Local Normal Information Using a Self-calibrated Endoscopic Structured Light System. Lecture Notes in Computer Science, 2015, , 405-412.	1.3	10
27	Multispectral imaging of organ viability during uterine transplantation surgery. Proceedings of SPIE, 2014, , .	0.8	4
28	Polarised stereo endoscope and narrowband detection for minimal access surgery. Biomedical Optics Express, 2014, 5, 4108.	2.9	39
29	Comparative Validation of Single-Shot Optical Techniques for Laparoscopic 3-D Surface Reconstruction. IEEE Transactions on Medical Imaging, 2014, 33, 1913-1930.	8.9	88
30	Endoscopic Sheffield Index for Unsupervised In Vivo Spectral Band Selection. Lecture Notes in Computer Science, 2014, , 110-120.	1.3	10
31	Deblurring Multispectral Laparoscopic Images. Lecture Notes in Computer Science, 2014, , 216-225.	1.3	1
32	Mueller polarimetric endoscopy. , 2014, , .		1
33	Optical Measurement of Anastomotic Oxygenation Dynamics. , 2014, , .		1
34	Narrow band 3 Å— 3 Mueller polarimetric endoscopy. Biomedical Optics Express, 2013, 4, 2433.	2.9	71
35	Registration and analysis of multispectral images acquired during uterine transplantation surgery. , 2012, , .		2
36	Multispectral image alignment using a three channel endoscope in vivo during minimally invasive surgery. Biomedical Optics Express, 2012, 3, 2567.	2.9	34

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37	Light Sources for Single-Access Surgery. Surgical Innovation, 2012, 19, 134-144.	0.9	8
38	Development and evaluation of a light-emitting diode endoscopic light source. Proceedings of SPIE, 2012, , .	0.8	14
39	Stroboscopic illumination scheme for seamless 3D endoscopy. , 2012, , .		2
40	Spectrally encoded fiber-based structured lighting probe for intraoperative 3D imaging. Biomedical Optics Express, 2011, 2, 3119.	2.9	55
41	An endoscopic structured lighting probe using spectral encoding. , 2011, , .		3
42	Gaze-contingent autofocus system for robotic-assisted minimally invasive surgery. , 2011, 2011, 5396-9.		3
43	A new device for assessing changes in skin viscoelasticity using indentation and optical measurement. Skin Research and Technology, 2010, 16, 210-228.	1.6	34
44	A Triple Endoscope System for Alignment of Multispectral Images of Moving Tissue. , 2010, , .		4
45	Biophotonic methods in microcirculation imaging. Medical Laser Application: International Journal for Laser Treatment and Research, 2007, 22, 105-126.	0.3	57