

# Neil T Clancy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5860748/publications.pdf>

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	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
2	Surgical spectral imaging. Medical Image Analysis, 2020, 63, 101699.	11.6	82
3	Narrow band 3 Å— 3 Mueller polarimetric endoscopy. Biomedical Optics Express, 2013, 4, 2433.	2.9	71
4	Biophotonic methods in microcirculation imaging. Medical Laser Application: International Journal for Laser Treatment and Research, 2007, 22, 105-126.	0.3	57
5	Spectrally encoded fiber-based structured lighting probe for intraoperative 3D imaging. Biomedical Optics Express, 2011, 2, 3119.	2.9	55
6	Intraoperative measurement of bowel oxygen saturation using a multispectral imaging laparoscope. Biomedical Optics Express, 2015, 6, 4179.	2.9	54
7	Dual-modality endoscopic probe for tissue surface shape reconstruction and hyperspectral imaging enabled by deep neural networks. Medical Image Analysis, 2018, 48, 162-176.	11.6	44
8	Polarised stereo endoscope and narrowband detection for minimal access surgery. Biomedical Optics Express, 2014, 5, 4108.	2.9	39
9	Robust near real-time estimation of physiological parameters from megapixel multispectral images with inverse Monte Carlo and random forest regression. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 909-917.	2.8	37
10	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
11	Multispectral image alignment using a three channel endoscope in vivo during minimally invasive surgery. Biomedical Optics Express, 2012, 3, 2567.	2.9	34
12	Robust surface tracking combining features, intensity and illumination compensation. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1915-1926.	2.8	29
13	Multispectral imaging of organ viability during uterine transplantation surgery in rabbits and sheep. Journal of Biomedical Optics, 2016, 21, 106006.	2.6	23
14	Tissue classification for laparoscopic image understanding based on multispectral texture analysis. Journal of Medical Imaging, 2017, 4, 015001.	1.5	21
15	An endoscopic structured light system using multispectral detection. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1941-1950.	2.8	19
16	Augmented reality needle ablation guidance tool for irreversible electroporation in the pancreas. , 2018, , .		19
17	Development and evaluation of a light-emitting diode endoscopic light source. Proceedings of SPIE, 2012, , .	0.8	14
18	Bayesian Estimation of Intrinsic Tissue Oxygenation and Perfusion From RGB Images. IEEE Transactions on Medical Imaging, 2017, 36, 1491-1501.	8.9	12

#	ARTICLE	IF	CITATIONS
19	Intraoperative colon perfusion assessment using multispectral imaging. Biomedical Optics Express, 2021, 12, 7556.	2.9	12
20	Estimation of tissue oxygen saturation from RGB images and sparse hyperspectral signals based on conditional generative adversarial network. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 987-995.	2.8	10
21	Endoscopic Sheffield Index for Unsupervised In Vivo Spectral Band Selection. Lecture Notes in Computer Science, 2014, , 110-120.	1.3	10
22	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
23	Light Sources for Single-Access Surgery. Surgical Innovation, 2012, 19, 134-144.	0.9	8
24	Multisensor perfusion assessment cohort study: Preliminary evidence toward a standardized assessment of indocyanine green fluorescence in colorectal surgery. Surgery, 2022, 172, 69-73.	1.9	6
25	Spectral Imaging Of Thermal Damage Induced During Microwave Ablation In The Liver. , 2018, 2018, 3001-3004.		5
26	Multispectral imaging of organ viability during uterine transplantation surgery. Proceedings of SPIE, 2014, , .	0.8	4
27	Video-rate dual polarization multispectral endoscopic imaging. , 2015, , .		4
28	Tissue classification for laparoscopic image understanding based on multispectral texture analysis. , 2016, , .		4
29	Endoscopic Depth Measurement and Super-Spectral-Resolution Imaging. Lecture Notes in Computer Science, 2017, , 39-47.	1.3	4
30	A Triple Endoscope System for Alignment of Multispectral Images of Moving Tissue. , 2010, , .		4
31	An endoscopic structured lighting probe using spectral encoding. , 2011, , .		3
32	Gaze-contingent autofocus system for robotic-assisted minimally invasive surgery. , 2011, 2011, 5396-9.		3
33	Dual multispectral and 3D structured light laparoscope. Proceedings of SPIE, 2015, , .	0.8	3
34	Inference of Tissue Haemoglobin Concentration from Stereo RGB. Lecture Notes in Computer Science, 2016, , 50-58.	1.3	3
35	Registration and analysis of multispectral images acquired during uterine transplantation surgery. , 2012, , .		2
36	Stroboscopic illumination scheme for seamless 3D endoscopy. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
37	Use of biomedical photonics in gynecological surgery: a uterine transplantation model. Future Science OA, 2018, 4, FSO286.	1.9	2
38	Use of Laser Speckle Contrast Analysis during pelvic surgery in a uterine transplantation model. Future Science OA, 2018, 4, FSO324.	1.9	2
39	Imaging the spectral reflectance properties of bipolar radiofrequency-fused bowel tissue. , 2015, , .		1
40	Stain-free identification of tissue pathology using a generative adversarial network to infer nanomechanical signatures. Nanoscale Advances, 2021, 3, 6403-6414.	4.6	1
41	Deblurring Multispectral Laparoscopic Images. Lecture Notes in Computer Science, 2014, , 216-225.	1.3	1
42	Mueller polarimetric endoscopy. , 2014, , .		1
43	Optical Measurement of Anastomotic Oxygenation Dynamics. , 2014, , .		1
44	Flexible Multimode Endoscope for Tissue Reflectance and Autofluorescence Hyperspectral Imaging. , 2016, , .		1
45	Fast Estimation of Haemoglobin Concentration in Tissue Via Wavelet Decomposition. Lecture Notes in Computer Science, 2017, , 100-108.	1.3	1