Natan S Kopeika

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Design of 4 <i>ï€</i> High-Efficiency Directional Radiation Detector Based on Compton Scattering. IEEE Transactions on Nuclear Science, 2022, 69, 832-839.	2.0	2
2	Performance Enhancement of Inexpensive Glow Discharge Detector Operating in Up-Conversion Mode in Millimeter Wave Detection for Focal Plane Arrays. Applied Sciences (Switzerland), 2021, 11, 9564.	2.5	0
3	Deep Learning for Improving Performance of OOK Modulation Over FSO Turbulent Channels. IEEE Access, 2020, 8, 155275-155284.	4.2	25
4	Effect of the Zenith Angle on Optical Wave Propagation in Anisotropic Non-Kolmogorov Atmospheric Turbulence: A New Experiment-Based Model. IEEE Transactions on Antennas and Propagation, 2020, 68, 6287-6295.	5.1	1
5	Improved Performance in the Detection of ACO-OFDM Modulated Signals Using Deep Learning Modules. Applied Sciences (Switzerland), 2020, 10, 8380.	2.5	1
6	Characterization of free space optical data center channel. Microwave and Optical Technology Letters, 2020, 62, 3087-3094.	1.4	1
7	QPSK detection using glow discharge detector and a photodiode for millimeterâ€wave and terahertz communication. Microwave and Optical Technology Letters, 2020, 62, 2674-2682.	1.4	2
8	Inexpensive Millimeter-Wave Communication Channel Using Glow Discharge Detector and Satellite Dish Antenna. Electronics (Switzerland), 2020, 9, 677.	3.1	3
9	Effects of aerosol modulation transfer function on target identification. Optical Engineering, 2020, 59, 1.	1.0	4
10	Upconversion of millimeter waves to visible waves: inexpensive focal plane array MMW imaging and ultra-fast wireless communication. , 2020, , .		0
11	Robust, Sensitive, and Inexpensive 2D Focal Plane Array Upconverting MMW Imaging Into the Visible. IEEE Photonics Technology Letters, 2019, 31, 747-750.	2.5	3
12	MMW coherence detection for 5th generation of cellular communication. , 2019, , .		0
13	Up-conversion MMW imaging system based on Glow Discharge Detector row attached to commercial contact image sensor. , 2019, , .		0
14	Ultra-wideband and inexpensive glow discharge detector for millimeter-wave wireless communication based on upconversion to visual light. Applied Optics, 2019, 58, F26.	1.8	3
15	Optics at Ben-Gurion University of the Negev: introduction to the focus issue. Applied Optics, 2019, 58, BGN1.	1.8	0
16	Application of remote sensing for detecting plant disease using color and morphological features. , 2019, , .		0
17	Applicability of digital color imaging for monitoring nitrogen uptake and fertilizer requirements in crops. , 2018, , .		2
18	Ultrafast, sensitive, and inexpensive 3 dimensional MMW/THz imaging system using Glow Discharge		0

^o Detector Array and CCD camera based on upconversion to visual band. , 2018, , .

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19	Inexpensive and simple MMW imaging using optical detection of light emitted from glow discharge detectors. , 2018, , .		1
20	Electromagnetic Wave Propagation in the Turbulent Atmosphere With an Anisotropic Exponent of the Spectrum. IEEE Transactions on Antennas and Propagation, 2017, 65, 5654-5657.	5.1	3
21	MMW/THz imaging using upconversion to visible, based on glow discharge detector array and CCD camera. , 2017, , .		1
22	Atmospheric effects on laser eye safety and damage to instrumentation. , 2017, , .		0
23	Detection and upconversion of three-dimensional MMW/THz images to the visible. Photonics Research, 2016, 4, 306.	7.0	19
24	Terahertz Frequency Modulated Continuous Wave Radar using Glow Discharge Detector. IEEE Sensors Journal, 2016, , 1-1.	4.7	10
25	Up-conversion of MMW radiation to visual band using glow discharge detector and silicon detector. , 2016, , .		0
26	Remote sensing in precision farming: real-time monitoring of water and fertilizer requirements of agricultural crops. Proceedings of SPIE, 2016, , .	0.8	0
27	Switching and Fast Operation of Glow Discharge Detector for Millimeter Wave Focal Plane Array Imaging Systems. IEEE Sensors Journal, 2015, 15, 6659-6663.	4.7	9
28	Feasibility of Radon projection acquisition for compressive imaging in MMW region based new video rate 16×16 GDD FPA camera. , 2015, , .		0
29	Aerosol MTF revisited. Proceedings of SPIE, 2014, , .	0.8	2
30	Capability of long distance 100  GHz FMCW using a single GDD lamp sensor. Applied Optics, 2014, 53,	8549.	3
31	Calibration Method for MMW Imaging Using Inexpensive Miniature Neon Indicator Lamp Detectors. IEEE Sensors Journal, 2014, 14, 1677-1681.	4.7	8
32	Detection of hidden objects using a real-time 3-D millimeter-wave imaging system. Proceedings of SPIE, 2014, , .	0.8	0
33	Real time three-dimensional space video rate sensors for millimeter waves imaging based very inexpensive plasma LED lamps. Proceedings of SPIE, 2014, , .	0.8	0
34	Polarization effects on heterodyne detection and imaging using Glow Discharge Detector at millimeter wavelengths. Proceedings of SPIE, 2014, , .	0.8	2
35	Fourier imaging and distance approximation using time of flight method for terahertz wave imaging. Optical Engineering, 2014, 53, 083104.	1.0	0
36	Large distance 3D imaging of hidden objects. Proceedings of SPIE, 2014, , .	0.8	0

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37	Real-time 3D millimeter wave imaging based FMCW using GGD focal plane array as detectors. , 2014, , .		2
38	Oversampling advances in millimeter-wave scan imaging using inexpensive neon indicator lamp detectors. Optical Engineering, 2013, 52, 063202.	1.0	8
39	Heterodyne detection at 300 GHz using glow discharge detectors with efficient quasi-optical design. Proceedings of SPIE, 2013, , .	0.8	Ο
40	Heterodyne detection and polarization effects at 300 GHz using Ne indicator lamp glow discharge detectors. , 2013, , .		0
41	W-Band Chirp Radar Mock-Up Using a Glow Discharge Detector. IEEE Sensors Journal, 2013, 13, 139-145.	4.7	25
42	Heterodyne detection at 300ÂGHz using neon indicator lamp glow discharge detector. Applied Optics, 2013, 52, 4077.	1.8	23
43	Blind source separation of images based upon fractional autocorrelation. Journal of Electronic Imaging, 2013, 21, 043027.	0.9	Ο
44	3D Millimeter Wave imaging system using chirp radar and Glow Discharge Detector pixel. , 2013, , .		0
45	Performance quantification of a millimeter-wavelength imaging system based on inexpensive glow-discharge-detector focal-plane array. Applied Optics, 2013, 52, C43.	1.8	16
46	Atmospheric effects on target acquisition. , 2012, , .		0
47	Down-conversion detection in 300 GHz radiation using Clow Discharge Detector (GDD). Proceedings of SPIE, 2012, , .	0.8	Ο
48	Sub-wavelength resolution of MMW imaging systems using extremely inexpensive scanning Glow Discharge Detector (GDD) double row camera. , 2012, , .		1
49	Infrared image denoising by nonlocal means filtering. , 2012, , .		4
50	Atmospheric scintillations and laser safety. , 2011, , .		0
51	Super resolution and optical properties of THz double row array based on inexpensive Glow Discharge Detector (GDD) pixels. Proceedings of SPIE, 2011, , .	0.8	5
52	Low-cost THz heterodyne detection by miniature neon indicator lamp glow discharge detector. , 2011, ,		0
53	Measurements and simulations of the optical parameters of the Glow Discharge Detector (GDD) Focal Plane Array (FPA) millimeter wavelength imaging system. , 2011, , .		0
54	Optimizing the design of a silicon photomultiplier-based radiation detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 474-478.	1.6	7

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55	Inexpensive THz Focal Plane Array Imaging Using Miniature Neon Indicator Lamps as Detectors. IEEE Sensors Journal, 2011, 11, 1962-1968.	4.7	41
56	mm wave and THz imaging using very inexpensive neon-indicator lamp detector focal-plane arrays. , 2011, , .		3
57	Heterodyne Detection by Miniature Neon Indicator Lamp Glow Discharge Detectors. IEEE Sensors Journal, 2011, 11, 1879-1884.	4.7	24
58	Some limitations on optical communication reliability through Kolmogorov and non-Kolmogorov turbulence. Optics Communications, 2010, 283, 1229-1235.	2.1	43
59	Low-cost plasma terahertz heterodyne image detection. Proceedings of SPIE, 2010, , .	0.8	2
60	Generalized atmospheric turbulence: implications regarding imaging and communications. Proceedings of SPIE, 2010, , .	0.8	17
61	Optical design considerations and constraints for implementation of Silicon photomultiplier as a light sensor. , 2010, , .		1
62	Inexpensive imaging at THz frequencies with Ne indicator lamp detector arrays. , 2010, , .		0
63	Silicon photomultiplier and radiation detection: follow-up study and the path forward. , 2010, , .		Ο
64	THz imaging using Glow Discharge Detector (GDD) focal plane arrays and large aperture quasi optic mirrors. Proceedings of SPIE, 2010, , .	0.8	1
65	Optical imaging of hidden objects behind clothing. Applied Optics, 2010, 49, 3926.	2.1	6
66	Imaging and communications through non-Kolmogorov turbulence. Proceedings of SPIE, 2009, , .	0.8	3
67	Spectral analysis of a one-dimensional scattering medium with the differential multiply subtractive Kramers-Kronig method. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 125.	2.1	5
68	THz imaging of inexpensive glow discharge detector (GDD) pixel. , 2009, , .		1
69	THz Polarization Effects on Detection Responsivity of Glow Discharge Detectors (GDDs). IEEE Sensors Journal, 2009, 9, 1181-1184.	4.7	42
70	First operation of $8\tilde{A}-\!\!-\!8$ glow discharge detector VLSI focal plane array toward mm wave and THz radiation video rate imaging. , 2009, , .		1
71	Active terahertz imaging with Ne indicator lamp detector arrays. , 2009, , .		0
72	Terahertz detection mechanism of inexpensive sensitive glow discharge detectors. Journal of Applied Physics, 2008, 103, 093306.	2.5	49

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73	Relatively inexpensive terahertz imaging. , 2008, , .		2
74	Design of inexpensive diffraction limited focal plane arrays for millimeter wavelength and terahertz radiation using glow discharge detector pixels. Journal of Applied Physics, 2008, 104, 033302.	2.5	41
75	Lidar study of aerosol turbulence characteristics in the troposphere: Kolmogorov and non-Kolmogorov turbulence. Atmospheric Research, 2008, 88, 66-77.	4.1	98
76	Propagation of electromagnetic waves in Kolmogorov and non-Kolmogorov atmospheric turbulence: three-layer altitude model. Applied Optics, 2008, 47, 6385.	2.1	122
77	Laser beam wander in the atmosphere: implications for optical turbulence vertical profile sensing with imaging LIDAR. Journal of Applied Remote Sensing, 2008, 2, 023540.	1.3	6
78	Comparing statistical and spatial characteristics of urban and rural infrared images, part 2: background simulation. Optical Engineering, 2008, 47, 046402.	1.0	0
79	Comparing statistical and spatial characteristics of urban and rural infrared images, part 1: data analysis. Optical Engineering, 2008, 47, 046401.	1.0	1
80	Novel mm-wave and THz radiation active imaging system based on glow discharge detector (GDD) pixel. Proceedings of SPIE, 2008, , .	0.8	0
81	Slant-path generalized atmospheric MTF. , 2008, , .		2
82	Slant-path atmospheric MTF. Proceedings of SPIE, 2007, , .	0.8	0
83	Glow discharge detector for terahertz and millimeter wave radiation detection and imaging. , 2007, , .		0
84	Prediction of data stream parameters in atmospheric turbulent wireless communication links. Applied Optics, 2007, 46, 190.	2.1	7
85	Inexpensive detector for terahertz imaging. Applied Optics, 2007, 46, 7207.	2.1	80
86	Kolmogorov and non-Kolmogorov turbulence and its effects on optical communication links. Proceedings of SPIE, 2007, , .	0.8	3
87	Registration of motion-distorted interlaced images captured by a scanning vector imaging sensor. Applied Optics, 2006, 45, 5950.	2.1	5
88	Range gated active night vision system for automobiles. Applied Optics, 2006, 45, 7248.	2.1	37
89	Middle East desert aerosol size distribution measurements and modeling in urban, coastal, and continental regions. , 2006, , .		0
90	Aerosol size distribution measurements and modeling in urban environments for rainy atmospheric conditions. , 2006, 6395, 186.		0

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91	Aerosol particle concentration and size distribution measurements and modeling in the urban environment for semi-arid and rainy atmospheric conditions. , 2006, 6303, 178.		Ο
92	Non-Kolmogorov atmospheric turbulence and optical signal propagation. Nonlinear Processes in Geophysics, 2006, 13, 297-301.	1.3	30
93	Influence of sea-breeze winds on aerosol particle concentration and size distribution for up to 50-km overland distances in the Middle East. , 2005, , .		2
94	Aerosol size distribution variance at different elevations. , 2005, , .		0
95	Middle East measurements of concentration and size distribution of aerosol particles for coastal zones. Optical Engineering, 2005, 44, 106003.	1.0	40
96	Lidar studies of aerosols and non-Kolmogorov turbulence in the Mediterranean troposphere. , 2005, , .		24
97	Aerosol and turbulence characterization at different heights in semi-arid regions. , 2005, 5891, 129.		0
98	Middle East model of vertical turbulence profile. , 2005, , .		5
99	Effects of attenuation of 1.064-μ4m optical waves by humid aerosols and fog over horizontal atmospheric communication links. Optical Engineering, 2004, 43, 539.	1.0	13
100	Motion-blurred image restoration using modified inverse all-pole filters. Journal of Electronic Imaging, 2004, 13, 257.	0.9	5
101	LIDAR measurements of atmospheric turbulence vertical profiles. , 2004, , .		8
102	Validity of Kolmogorov turbulence at higher elevations. , 2004, , .		0
103	Validity of the Kolmogorov turbulence at higher elevations. , 2004, , .		4
104	Atmospheric turbulence at different elevations: consequences on laser beam wander and widening at target. , 2004, , .		3
105	Modeling and measurements of near-ground atmospheric optical turbulence according to weather for Middle East environments. , 2004, , .		6
106	<title>Prediction and modeling of line-of-sight bending near ground level for long atmospheric paths</title> . , 2004, , .		4
107	Turbulence strength parameter in laboratory and natural optical experiments in non-Kolmogorov cases. Optics Communications, 2004, 242, 333-338.	2.1	11
108	Atmospheric modulation transfer function in the infrared. Applied Optics, 2004, 43, 471.	2.1	15

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109	Atmospheric optical turbulence over land in middle east coastal environments: prediction modeling and measurements. Applied Optics, 2004, 43, 4070.	2.1	71
110	Restoration of images captured by a staggered time delay and integration camera in the presence of mechanical vibrations. Applied Optics, 2004, 43, 4345.	2.1	26
111	Behavior of structure function of refraction coefficients in different turbulent fields. Applied Optics, 2004, 43, 6151.	2.1	57
112	Aerosol models for Middle East coastal zones: a modified NAM model. , 2004, , .		2
113	Landsat TM Satellite Image Restoration Using Kalman Filters. Photogrammetric Engineering and Remote Sensing, 2004, 70, 91-100.	0.6	9
114	Performance limitation of laser satellite communication due to vibrations and atmospheric turbulence: down-link scenario. International Journal of Satellite Communications and Networking, 2003, 21, 561-573.	1.8	16
115	Image restoration from camera vibration and object motion blur in infrared staggered time-delay and integration systems. Optical Engineering, 2003, 42, 3253.	1.0	12
116	Effects of image restoration on target acquisition. Optical Engineering, 2003, 42, 534.	1.0	14
117	Criteria for satellite image restoration success. Optical Engineering, 2003, 42, 2607.	1.0	3
118	Hardware-efficient technique for minimizing startup transients in Direct Form II digital filters. International Journal of Electronics, 2003, 90, 471-479.	1.4	1
119	Restoration of images captured by a staggered TDI camera in the presence of mechanical vibrations. , 2003, 5203, 559.		1
120	Satellite image restoration filter comparison. , 2002, , .		1
121	Differential sensing of vibration for high-quality restoration of motion-blurred images. Optical Engineering, 2002, 41, 2970.	1.0	1
122	Influence of motion sensor error on image restoration from vibrations and motion. Optical Engineering, 2002, 41, 3276.	1.0	6
123	Motion-blurred image restoration using modified inverse all-pole filters. , 2002, , .		4
124	<title>Possible solutions to mitigate vibration effects in laser intersatellite links</title> . , 2002, 4489, 202.		2
125	Changes in modulation transfer function and optical resolution in helical turbulent media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 1774.	1.5	4
126	Recognition of motion-blurred images by use of the method of moments. Applied Optics, 2002, 41, 2164.	2.1	31

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127	Enhanced-resolution image restoration from a sequence of low-frequency vibrated images by use of convex projections. Applied Optics, 2001, 40, 4706.	2.1	16
128	<title>Stabilization, restoration, and resolution enhancement of a video sequence captured by a moving and vibrating platform</title> . , 2001, , .		0
129	<title>Vibration noise control in laser satellite communication</title> .,2001,,.		12
130	<title>Acquisition time calculation and influence of vibrations for microsatellite laser communication in space</title> ., 2001, , .		13
131	Mixed-Signal Architecture for Real-Time Two-Dimensional Live TV Image Restoration. Real Time Imaging, 2001, 7, 183-194.	1.6	1
132	Influence of motion sensor error on image restoration from vibrations and motion. , 2001, , .		0
133	<title>Landsat TM satellite image restoration using Kalman filter</title> . , 2001, 4474, 311.		1
134	<title>Laser beam widening as a function of elevation in the atmosphere for horizontal propagation</title> . , 2001, 4376, 177.		12
135	Measured profiles of aerosols and turbulence for elevations of 2 to 20 km and consequences of widening of laser beams. , 2001, 4271, 43.		10
136	Influence of severe vibrations on the visual perception of video sequences. Optical Engineering, 2001, 40, 964.	1.0	2
137	Medical image restoration of dynamic lungs using optical transfer function of lung motion. Journal of Biomedical Optics, 2001, 6, 193.	2.6	3
138	Atmospheric turbulence modulation transfer function for infrared target acquisition modeling. Optical Engineering, 2001, 40, 1906.	1.0	37
139	<title>Effects of image restoration on target acquisition</title> ., 2001, , .		Ο
140	<title>Effect of sampling on target detection</title> ., 2001, , .		0
141	<title>Restoration of nonlinear motion-distorted composite frame</title> ., 2000, 4115, 58.		Ο
142	SATELLITE IMAGE RESTORATION BASED ON ATMOSPHERIC MTF EVALUATION. , 2000, , .		0
143	Influence of severe vibrations on the visual perception of video sequences. , 2000, , .		0
144	<title>Vertical profiles of aerosol and optical turbulence strength and their effects on atmospheric propagation</title> ., 2000, , .		0

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145	<title>Influence of aerosols and optical turbulence strength on laser beam widening in the atmosphere</title> . , 2000, , .		Ο
146	Restoration and resolution enhancement of a single image from a vibration-distorted image sequence. Optical Engineering, 2000, 39, 2451.	1.0	13
147	<title>Acquisition system for microsatellites laser communication in space</title> . , 2000, , .		17
148	Restoration of an image degraded by vibrations using only a single frame. Optical Engineering, 2000, 39, 2083.	1.0	46
149	<title>Criteria for satellite image restoration success</title> ., 2000, 4116, 417.		1
150	Myopic deconvolution of adaptive optics images by use of object and point-spread function power spectra: comment. Applied Optics, 2000, 39, 2412.	2.1	1
151	<title>Satellite image restoration filter comparison</title> ., 1999, 3763, 187.		Ο
152	<title>Imaging through the atmosphere: an overview</title> . , 1999, 3609, 78.		6
153	Bandwidth maximization for satellite laser communication. IEEE Transactions on Aerospace and Electronic Systems, 1999, 35, 675-682.	4.7	7
154	Optical transfer function analysis of images blurred by nonharmonic vibrations characterized by their power spectrum density. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 2200.	1.5	4
155	Motion-distorted composite-frame restoration. Applied Optics, 1999, 38, 757.	2.1	7
156	Comparison of direct blind deconvolution methods for motion-blurred images. Applied Optics, 1999, 38, 4325.	2.1	44
157	<title>Restoration and resolution enhancement of a single image from a vibration-distorted image sequence</title> . , 1999, , .		О
158	<title>Vibrated image restoration from a single frame</title> . , 1999, , .		2
159	Adaptive bandwidth for satellite optical communication. IEE Proceedings: Optoelectronics, 1998, 145, 109-115.	0.8	8
160	Incorporating the entire modulation transfer function into an infrared target acquisition model. Infrared Physics and Technology, 1998, 39, 307-314.	2.9	4
161	Optimum transmitter optics aperture for satellite optical communication. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 590-596.	4.7	22
162	Performance limitations of a free-space optical communication satellite network owing to vibrations: heterodyne detection. Applied Optics, 1998, 37, 6366.	2.1	24

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163	Experimental investigation of the influence of the relative position of the scattering layer on image quality: the shower curtain effect. Applied Optics, 1998, 37, 6495.	2.1	42
164	General restoration filter for vibrated-image restoration. Applied Optics, 1998, 37, 7596.	2.1	9
165	Adaptive suboptimum detection of an optical pulse-position-modulation signal with a detection matrix and centroid tracking. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 443.	1.5	11
166	Direct method for restoration of motion-blurred images. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 1512.	1.5	133
167	Causes of atmospheric blur: comment on Atmospheric scattering effect on spatial resolution of imaging systems. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 3097.	1.5	33
168	Aerosol light scatter vs turbulence effects in image blur. , 1998, , .		2
169	Relative effects of distortion and noise on target acquisition: the advisability of image restoration. Optical Engineering, 1998, 37, 1914.	1.0	6
170	<title>Causes of atmospheric blur in remote sensing: a system engineering approach to imaging</title> . , 1998, , .		0
171	<title>Imaging vertically through the atmosphere: restoration of satellite images based on atmospheric MTF evaluation</title> . , 1998, , .		2
172	<title>Blur in imaging through the atmosphere: a system engineering approach to imaging</title> . , 1998, , .		5
173	Experimental comparison of three target acquisition models. Optical Engineering, 1998, 37, 1902.	1.0	12
174	<title>Comparison of direct methods for restoration of motion-blurred images</title> . , 1998, , .		1
175	<title>Motion-distorted composite frame restoration</title> ., 1998, , .		Ο
176	Role of the atmosphere in target acquisition: models versus experiment. , 1998, , .		5
177	Restoration of atmospherically blurred images according to weather-predicted atmospheric modulation transfer functions. Optical Engineering, 1997, 36, 3064.	1.0	102
178	Performance limitations of free-space optical communication satellite networks due to vibrations—analog case. Optical Engineering, 1997, 36, 175.	1.0	43
179	Performance limitations of free-space optical communication satellite networks due to vibrations: direct detection digital mode. Optical Engineering, 1997, 36, 3148.	1.0	25
180	Performance limitations of free space optical communication satellite networks due to vibrations: heterodyne detection. , 1997, , .		0

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181	<title>Experimental comparison of three target acquisition models</title> . , 1997, , .		2
182	Performance limitations of free-space optical communication satellite networks due to vibrations: direct-detection digital mode. , 1997, , .		6
183	<title>Real-time two-dimensional electronic image filtering and live TV restoration</title> . , 1997, , .		0
184	Vibrated image restoration from two consecutive images. , 1997, , .		0
185	Adaptive suboptimum detection of optical PPM signal with detection matrix and centroid tracking. , 1997, , .		1
186	<title>General restoration filter for vibrated image restoration</title> ., 1997, , .		1
187	<title>Restoration of motion-blurred images</title> ., 1997, , .		0
188	<title>Relative effects of blur and noise on target acquisition: the advisability of image restoration</title> . , 1997, 3128, 120.		2
189	Evaluation of the PSF from motion-blurred images. , 1997, , .		1
190	Image restoration for target detection: will it help?. , 1997, 3110, 44.		0
191	Free-space optical communication satellite networks-vibration effects and possible solutions. Proceedings of SPIE, 1997, , .	0.8	1
192	Imaging through the atmosphere from satellites: restoration of images based on atmospheric MTF. , 1997, 3110, 2.		0
193	Laser satellite communication network-vibration effect and possible solutions. Proceedings of the IEEE, 1997, 85, 1646-1661.	21.3	101
194	Adaptive optical transmitter and receiver for space communication through thin clouds. Applied Optics, 1997, 36, 1987.	2.1	26
195	Beam width and transmitter power adaptive to tracking system performance for free-space optical communication. Applied Optics, 1997, 36, 6095.	2.1	55
196	Analytical method to calculate optical transfer functions for image motion and vibrations using moments. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 388.	1.5	41
197	<title>Aerosol modulation transfer function: an overview</title> . , 1997, 3125, 214.		2
198	Influence of sensor motion on infrared target acquisition. Infrared Physics and Technology, 1997, 38, 373-381.	2.9	2

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199	Restoration of images degraded by extreme mechanical vibrations. Optics and Laser Technology, 1997, 29, 171-177.	4.6	14
200	Identification of Blur Parameters from Motion Blurred Images. Graphical Models, 1997, 59, 310-320.	1.3	138
201	Probing and monitoring aerosol and atmospheric clouds with an electro-optic oscillator. Applied Optics, 1996, 35, 5427.	2.1	7
202	Restoration of satellite images based on atmospheric MTF. , 1996, , .		0
203	Restoration of atmospherically blurred images using weather-predicted atmospheric modulation transfer function (MFT). , 1996, 2828, 386.		3
204	<title>Identification of blur parameters from motion-blurred images</title> ., 1996, 2847, 270.		11
205	<title>Analytical method to calculate optical transfer functions for image motion using moments and its implementation in image restoration</title> . , 1996, , .		2
206	Accurate method for prediction of atmospheric transmission according to weather. Optical Engineering, 1996, 35, 2548.	1.0	9
207	<title>Optimum transmitter optics aperture for free space satellite optical communication as a function of tracking system performance</title> ., 1996,,.		8
208	Investigation of the influence of inhomogenous scattering media on image quality: the shower curtain effect. , 1996, , .		0
209	Incorporating the entire modulation transfer function into a target acquisition model. , 1996, , .		Ο
210	<title>Medical image restoration of dynamic lungs using optical transfer function of lung motion</title> . , 1995, , .		0
211	<title>Statistical model for aerosol size distribution parameters according to weather parameters</title> . , 1995, , .		1
212	<title>Image motion restoration from a sequence of images</title> . , 1995, , .		0
213	<title>Contrast-limited target acquisition: atmospheric and motion effects</title> . , 1995, , .		Ο
214	Incorporation of atmospheric blurring effects in target acquisition modeling of thermal images. Infrared Physics and Technology, 1995, 36, 551-564.	2.9	9
215	Restoration of thermal images distorted by the atmosphere, using predicted atmospheric modulation transfer function. Infrared Physics and Technology, 1995, 36, 565-576.	2.9	8
216	Thermal image target acquisition probabilities in the presence of vibrations. Infrared Physics and Technology, 1995, 36, 691-702.	2.9	3

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217	Search strategy for optimal infrared target acquisition performance. Infrared Physics and Technology, 1995, 36, 1025-1034.	2.9	3
218	Prediction of overall atmospheric MTF with standard weather parameters: comparison with measurements with two imaging systems. , 1995, , .		6
219	<title>Identification of the blur extent from motion-blurred images</title> . , 1995, 2470, 2.		6
220	<title>Effects of atmospheric blur and image restoration on target acquisition range and probability</title> . , 1995, , .		0
221	Prediction of airborne particle statistics according to weather forecasts: concentration and scattering area. Optical Engineering, 1995, 34, 1208.	1.0	5
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