Steve Hranilovic

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Power Allocation for Uplink Multi-User Optical Wireless Communication Systems. IEEE Transactions on Communications, 2022, 70, 1072-1084.	4.9	4
2	Low-Complexity Layered ACO-OFDM for Power-Efficient Visible Light Communications. IEEE Transactions on Green Communications and Networking, 2022, 6, 1780-1792.	3.5	7
3	Experimental Setup for Single-Pixel Imaging of Turbulent Wavefronts and Speckle-Based Phase Retrieval. , 2022, , .		5
4	Outage probability analysis of a vertical underwater wireless optical link subject to oceanic turbulence and pointing errors. Journal of Optical Communications and Networking, 2022, 14, 439.	3.3	25
5	Angular MIMO for Underwater Wireless Optical Communications: Link Modeling and Tracking. IEEE Journal of Oceanic Engineering, 2021, 46, 1391-1407.	2.1	19
6	Parameter Optimization for an Underwater Optical Wireless Vertical Link Subject to Link Misalignments. IEEE Journal of Oceanic Engineering, 2021, 46, 1424-1437.	2.1	19
7	Layered antisymmetry-constructed clipped optical OFDM for low-complexity VLC systems. Optics Express, 2021, 29, 10613.	1.7	4
8	Rate-Power Trade-Off in Simultaneous Lightwave Information and Power Transfer Systems. IEEE Communications Letters, 2021, 25, 1249-1253.	2.5	7
9	Passive Indoor Visible Light Positioning System Using Deep Learning. IEEE Internet of Things Journal, 2021, 8, 14810-14821.	5.5	14
10	Kramers-Kronig Optical OFDM for Bandlimited Intensity Modulated Visible Light Communications. Journal of Lightwave Technology, 2021, 39, 7135-7145.	2.7	9
11	Passive Positioning using Visible Light Systems. , 2021, , .		0
12	Under-Sea Ice Diffusing Optical Communications. IEEE Access, 2021, 9, 159652-159671.	2.6	3
13	Passive indoor visible light-based fall detection using neural networks. Optics Express, 2021, 29, 43389.	1.7	1
14	Silicon-Photomultiplier-Based Underwater Wireless Optical Communication Using Pulse-Amplitude Modulation. IEEE Journal of Oceanic Engineering, 2020, 45, 1611-1621.	2.1	25
15	Light-Emitting Commutating Diodes for Optical Wireless Communications Within LED Drivers. IEEE Photonics Journal, 2020, 12, 1-11.	1.0	6
16	Absolute Value Layered ACO-OFDM for Intensity-Modulated Optical Wireless Channels. IEEE Transactions on Communications, 2020, 68, 7098-7110.	4.9	20
17	Optical OFDM for SiPM-Based Underwater Optical Wireless Communication Links. Sensors, 2020, 20, 6057.	2.1	16
18	Capacity of optical wireless communication channels. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190184.	1.6	18

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19	Performance Bounds on Passive Indoor Positioning Using Visible Light. Journal of Lightwave Technology, 2020, 38, 2190-2200.	2.7	15
20	Hybrid NOMA and ZF Pre-Coding Transmission for Multi-Cell VLC Networks. IEEE Open Journal of the Communications Society, 2020, 1, 513-526.	4.4	18
21	Impact of angular pointing error on BER performance of underwater optical wireless links. Optics Express, 2020, 28, 34606.	1.7	25
22	Absolute Value Layered ACO-OFDM for Intensity-Modulated Optical Wireless Channels. , 2019, , .		7
23	Layered Antisymmetry-Constructed Clipped Optical OFDM for IM/DD Systems. , 2019, , .		4
24	Network planning of uplink all-optical passive FSO/OF C-RAN fronthaul. Journal of Optical Communications and Networking, 2019, 11, 600.	3.3	3
25	Angular MIMO for Underwater Wireless Optical Communications: Channel Modelling and Capacity. , 2019, , .		7
26	Mixed mmWave and Radio-Over-Fiber Systems With Fiber Nonlinearity. IEEE Photonics Technology Letters, 2019, 31, 23-26.	1.3	10
27	Hybrid two-level MPPM–MDPSK modulation for high-speed optical communication networks. Applied Optics, 2019, 58, 9757.	0.9	5
28	A Fixed-Scale Pixelated MIMO Visible Light Communication System. IEEE Journal on Selected Areas in Communications, 2018, 36, 203-211.	9.7	11
29	Coordinated Beamforming for Downlink Visible Light Communication Networks. IEEE Transactions on Communications, 2018, 66, 3571-3582.	4.9	37
30	Passive Indoor Localization for Visible Light Communication Systems. , 2018, , .		12
31	Two-Level MPPM-MDPSK Modulation for Free-Space Optical Channels. , 2018, , .		6
32	C-RAN Uplink Optimization Using Mixed Radio and FSO Fronthaul. Journal of Optical Communications and Networking, 2018, 10, 603.	3.3	23
33	Amplify-and-Forward Strategy Using MRC Reception Over FSO Channels with Pointing Errors. Journal of Optical Communications and Networking, 2018, 10, 545.	3.3	19
34	Outage Performance of Exponentiated Weibull FSO Links Under Generalized Pointing Errors. Journal of Lightwave Technology, 2017, 35, 1605-1613.	2.7	39
35	Impact of Fiber Nonlinearity on 5G Backhauling via Mixed FSO/Fiber Network. IEEE Access, 2017, 5, 19942-19950.	2.6	20
36	Hybrid Visible Light and Power Line Communication for Indoor Multiuser Downlink. Journal of Optical Communications and Networking, 2017, 9, 635.	3.3	45

#	Article	IF	CITATIONS
37	Spectrally efficient visible light communications. , 2017, , .		Ο
38	A Novel Method of Integrating Visible Light Communications within LED Drivers. , 2017, , .		3
39	Trends and Progress in Optical Wireless Communications. , 2017, , .		2
40	Subcarrier allocation in hybrid visible light and power line communication system. , 2016, , .		3
41	Bandlimited Optical Intensity Modulation Under Average and Peak Power Constraints. IEEE Transactions on Communications, 2016, 64, 3820-3830.	4.9	15
42	Indoor localization using low-complexity luminaires and ambient light sensors. , 2016, , .		1
43	Raptor-Coded Free-Space Optical Communications Experiment. Journal of Optical Communications and Networking, 2016, 8, 398.	3.3	8
44	A two-dimensional signal space for bandlimited optical intensity channels. , 2015, , .		2
45	IDyLL. , 2015, , .		70
46	Amplify-and-forward integration of power line and visible light communications. , 2015, , .		10
47	Turn on the lights: leveraging visible light for communications and positioning. , 2015, , .		1
48	Spatial-Diversity Imaging Receivers for Non-Line-of-Sight Solar-Blind UV Communications. Journal of Lightwave Technology, 2015, 33, 2246-2255.	2.7	26
49	Coordinated Broadcasting for Multiuser Indoor Visible Light Communication Systems. IEEE Transactions on Communications, 2015, 63, 3313-3324.	4.9	134
50	Visible Light Communications Using OFDM and Multiple LEDs. IEEE Transactions on Communications, 2015, 63, 4304-4313.	4.9	112
51	Visible light communications: the road to standardization and commercialization (Part 2) [Guest Editorial]. , 2014, 52, 62-63.		5
52	Capacity-Achieving Distributions for the Discrete-Time Poisson Channel—Part I: General Properties and Numerical Techniques. IEEE Transactions on Communications, 2014, 62, 194-202.	4.9	48
53	Capacity-Achieving Distributions for the Discrete-Time Poisson Channel—Part II: Binary Inputs. IEEE Transactions on Communications, 2014, 62, 203-213.	4.9	25
54	Design and Implementation of Color-Shift Keying for Visible Light Communications. Journal of Lightwave Technology, 2014, 32, 2053-2060.	2.7	158

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55	Practical OFDM signalling for visible light communications using spatial summation. , 2014, , .		14
56	On the Use of Photon Arrival-Times for Non-Line-of-Sight Solar-Blind UV Channels. IEEE Communications Letters, 2014, 18, 913-916.	2.5	5
57	Integration of indoor visible light and power line communication systems. , 2013, , .		32
58	Discreteness of Sum-Capacity-Achieving Distributions for Discrete-Time Poisson Multiple Access Channels with Peak Constraints. IEEE Communications Letters, 2013, 17, 1644-1647.	2.5	5
59	Angular diversity approach to indoor positioning using visible light. , 2013, , .		23
60	Diversity and Multiplexing for Near-Field Atmospheric Optical Communication. IEEE Transactions on Communications, 2013, 61, 1988-1997.	4.9	18
61	Systematic raptor codes for atmospheric optical channels. , 2013, , .		1
62	Iterative decoding and multiuser communication using sparse space codes for MIMO channels. , 2013, ,		0
63	Rate-adaptive FSO communication via rate-compatible punctured LDPC codes. , 2013, , .		4
64	Robust MMSE linear precoding for visible light communication broadcasting systems. , 2013, , .		23
65	Visible light communications: the road to standardization and commercialization (Part 1) [Guest Editorial]. , 2013, 51, 24-25.		19
66	Capacity and Nonuniform Signaling for Discrete-Time Poisson Channels. Journal of Optical Communications and Networking, 2013, 5, 329.	3.3	10
67	Channel Measurement and Markov Modeling of an Urban Free-Space Optical Link. Journal of Optical Communications and Networking, 2012, 4, 836.	3.3	34
68	Binary-Input Non-Line-of-Sight Solar-Blind UV Channels: Modeling, Capacity and Coding. Journal of Optical Communications and Networking, 2012, 4, 1008.	3.3	39
69	Performance analysis of noise cancellation in a diversity combined ACO-OFDM system. , 2012, , .		18
70	Constellation design for color-shift keying using interior point methods. , 2012, , .		80
71	Diversity gain for near-field MISO atmospheric optical communications. , 2012, , .		4
72	Information rates of solar blind non-line-of-sight ultra-violet channels with binary-input. , 2012, , .		1

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73	Free-space optical links for latency-tolerant traffic. IET Communications, 2012, 6, 507.	1.5	4
74	Editorial: Guest Editorial: Special Section on Photonic and Free Space Optics Networks. IET Communications, 2012, 6, 471.	1.5	0
75	In-Field Demonstration of OFDM-Over-FSO. IEEE Photonics Technology Letters, 2012, 24, 709-711.	1.3	34
76	Simulation of atmospheric turbulence for optical systems with extended sources. Applied Optics, 2012, 51, 7509.	0.9	2
77	Diversity Gain and Outage Probability for MIMO Free-Space Optical Links with Misalignment. IEEE Transactions on Communications, 2012, 60, 479-487.	4.9	95
78	A review of communication-oriented optical wireless systems. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	1.5	163
79	Spectrally factorized optical OFDM. , 2011, , .		11
80	All-Optical Multihop Free-Space Optical Communication Systems. Journal of Lightwave Technology, 2011, 29, 2663-2669.	2.7	113
81	Non-line-of-sight single-scatter propagation model for noncoplanar geometries. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 420.	0.8	63
82	Impact of finite receiver-aperture size in a non-line-of-sight single-scatter propagation model. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 2568.	0.8	12
83	OOK Performance for Terrestrial FSO Links in Turbulent Atmosphere with Pointing Errors Modeled by Hoyt Distributions. IEEE Communications Letters, 2011, 15, 875-877.	2.5	83
84	Outage Capacity for MISO Intensity-Modulated Free-Space Optical Links With Misalignment. Journal of Optical Communications and Networking, 2011, 3, 780.	3.3	35
85	Receiver design for asymmetrically clipped optical OFDM. , 2011, , .		53
86	Capacity Bounds for Wireless Optical Intensity Channels With Gaussian Noise. IEEE Transactions on Information Theory, 2010, 56, 6066-6077.	1.5	162
87	Diversity Reception for Deep-Space Optical Communication Using Linear Projections. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1071-1083.	1.9	6
88	On the use of free-space optical links for latency-tolerant traffic applications. , 2010, , .		0
89	Lower bounds on the capacity of discrete-time Poisson channels with dark current. , 2010, , .		4
90	Performance of PPM on terrestrial FSO links with turbulence and pointing errors. IEEE Communications Letters, 2010, 14, 468-470.	2.5	143

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91	Diversity gains for MIMO wireless optical intensity channels with atmospheric fading and misalignment. , 2010, , .		7
92	Optical communication through time-varying turbulent atmosphere using compressive sensing. , 2009, , .		2
93	Optical impulse modulation for indoor diffuse wireless communications. IEEE Transactions on Communications, 2009, 57, 499-508.	4.9	8
94	Dynamic spot diffusing configuration for indoor optical wireless access. IEEE Transactions on Communications, 2009, 57, 1765-1775.	4.9	7
95	Short-Length Raptor Codes for Mobile Free-Space Optical Channels. , 2009, , .		14
96	Free-Space Optical Gateway Placement in Hybrid Wireless Mesh Networks. Journal of Lightwave Technology, 2009, 27, 2688-2697.	2.7	20
97	Channel capacity and non-uniform signalling for free-space optical intensity channels. IEEE Journal on Selected Areas in Communications, 2009, 27, 1553-1563.	9.7	75
98	Soft-Switching Hybrid FSO/RF Links Using Short-Length Raptor Codes: Design and Implementation. IEEE Journal on Selected Areas in Communications, 2009, 27, 1698-1708.	9.7	132
99	Capacity of Optical Intensity Channels with Peak and Average Power Constraints. , 2009, , .		11
100	Spatial multiplexing and diversity techniques for multiple-element optical wireless links. , 2009, , .		2
101	Power reduction techniques for multiple-subcarrier modulated diffuse wireless optical channels. IEEE Transactions on Communications, 2008, 56, 279-288.	4.9	27
102	Outage capacity with non-uniform signaling for free-space optical channels. , 2008, , .		0
103	Design of non-uniform capacity-approaching signaling for optical wireless intensity channels. , 2008, , \cdot		3
104	Interference Management in WLAN Mesh Networks Using Free-Space Optical Links. Journal of Lightwave Technology, 2008, 26, 1735-1743.	2.7	27
105	Two-dimensional binary halftoned optical intensity channels. IET Communications, 2008, 2, 11.	1.5	11
106	Gateway Placement in Wireless Mesh Networks Using Free Space Optical Links. , 2008, , .		2
107	Information rates of optical impulse modulation over indoor diffuse wireless channels. , 2008, , .		4

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109	Multilevel error diffusion for wireless optical MIMO channels. , 2008, , .		3
110	Optimization of beam width, bit error rate and availability for free-space optical links. , 2008, , .		4
111	Compressive Sensing Receiver for Free-Space Optical Communication Through the Atmosphere. , 2008, ,		3
112	WLAN Mesh Network Interference Management Using FSO Link Deployment. , 2007, , .		1
113	Outage Capacity Optimization for Free-Space Optical Links With Pointing Errors. Journal of Lightwave Technology, 2007, 25, 1702-1710.	2.7	1,126
114	A Study of Ultrawideband Antennas for Near-Field Imaging. IEEE Transactions on Antennas and Propagation, 2007, 55, 1184-1188.	3.1	68
115	Upper and Lower Bounds on the Capacity of Wireless Optical Intensity Channels. , 2007, , .		21
116	Minimum-Bandwidth Optical Intensity Nyquist Pulses. IEEE Transactions on Communications, 2007, 55, 574-583.	4.9	32
117	A Dynamic Spot Diffusing Architecture for Indoor Wireless Optical Communications. , 2006, , .		3
118	A pixelated MIMO wireless optical communication system. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 859-874.	1.9	127
119	Optical Power Reduction for Multiple-Subcarrier Modulated Indoor Wireless Optical Channels. , 2006, , .		3
120	Outage Probability for Free-Space Optical Systems Over Slow Fading Channels With Pointing Errors. , 2006, , .		3
121	Capacity-Achieving Probability Measure for Conditionally Gaussian Channels With Bounded Inputs. IEEE Transactions on Information Theory, 2005, 51, 2073-2088.	1.5	152
122	On the design of bandwidth efficient signalling for indoor wireless optical channels. International Journal of Communication Systems, 2005, 18, 205-228.	1.6	47
123	Capacity Bounds for Power- and Band-Limited Optical Intensity Channels Corrupted by Gaussian Noise. IEEE Transactions on Information Theory, 2004, 50, 784-795.	1.5	111
124	Optical intensity-modulated direct detection channels: signal space and lattice codes. IEEE Transactions on Information Theory, 2003, 49, 1385-1399.	1.5	94
125	Multiple-input multiple-output techniques for indoor optical wireless communications. , 0, , 116-145.		1