Soren Forchhammer

List of Publications by Year
in descending order

77 papers	945 citations	623734 14 h-index	526287 27 g-index
77 all docs	77 docs citations	77 times ranked	902 citing authors

#	Article	IF	Citations
1	Constellation Shaping for Fiber-Optic Channels With QAM and High Spectral Efficiency. IEEE Photonics Technology Letters, 2014, 26, 2407-2410.	2.5	109
2	Constellation Shaping for WDM Systems Using 256QAM/1024QAM With Probabilistic Optimization. Journal of Lightwave Technology, 2016, 34, 5146-5156.	4.6	105
3	Experimental Comparison of Probabilistic Shaping Methods for Unrepeated Fiber Transmission. Journal of Lightwave Technology, 2017, 35, 4871-4879.	4.6	65
4	The Modular Multispectral Imaging Array (MMIA) of the ASIM Payload on the International Space Station. Space Science Reviews, 2019, 215, 1.	8.1	53
5	Drone-Based Daylight Electroluminescence Imaging of PV Modules. IEEE Journal of Photovoltaics, 2020, 10, 872-877.	2.5	42
6	Characterization and Optimization of a High-Efficiency AlGaAs-On-Insulator-Based Wavelength Converter for 64- and 256-QAM Signals. Journal of Lightwave Technology, 2017, 35, 3750-3757.	4.6	41
7	Two-dimensional distributed-phase-reference protocol for quantum key distribution. Scientific Reports, 2016, 6, 36756.	3.3	30
8	Efficient depth map compression exploiting segmented color data. , 2011, , .		25
9	Feasibility Study and Experimental Verification of Simplified Fiber-Supported 60-GHz Picocell Mobile Backhaul Links. IEEE Photonics Journal, 2013, 5, 7200913-7200913.	2.0	25
10	Temporal Probabilistic Shaping for Mitigation of Nonlinearities in Optical Fiber Systems. Journal of Lightwave Technology, 2017, 35, 1803-1810.	4.6	25
11	Characterization and Optimization of Four-Wave-Mixing Wavelength Conversion System. Journal of Lightwave Technology, 2019, 37, 5628-5636.	4.6	21
12	Rate-adaptive constellation shaping for near-capacity achieving turbo coded BICM. , 2014, , .		19
13	Machine learning prediction of defect types for electroluminescence images of photovoltaic panels. , 2019, , .		19
14	Comparing subjective and objective quality assessment of HDR images compressed with JPEG-XT. , 2014, , .		18
15	Nonlinear Phase Noise Compensation in Experimental WDM Systems With 256QAM. Journal of Lightwave Technology, 2017, 35, 1438-1443.	4.6	18
16	Ultrahigh-Spectral-Efficiency WDM/SDM Transmission Using PDM-1024-QAM Probabilistic Shaping With Adaptive Rate. Journal of Lightwave Technology, 2018, 36, 1304-1308.	4.6	17
17	Compressive Online Robust Principal Component Analysis via <inline-formula> <tex-math notation="LaTeX">n </tex-math> </inline-formula>-<inline-formula> <tex-math notation="LaTeX">ell_1 </tex-math> </inline-formula> Minimization. IEEE Transactions on Image Processing, 2018, 27, 4314-4329.	9.8	15
18	Controlling Power Consumption for Displays With Backlight Dimming. Journal of Display Technology, 2013, 9, 933-941.	1.2	14

#	ARTICLE	IF	CITATIONS
19	Symmetry Enhancement Through Advanced Dispersion Mapping in OPC-Aided Transmission. Journal of Lightwave Technology, 2021, 39, 2820-2829.	4.6	14
20	Block-Based Gradient Descent for Local Backlight Dimming and Flicker Reduction. Journal of Display Technology, 2014, 10, 71-79.	1.2	12
21	Demonstration and Comparison Study for V- and W-Band Real-Time High-Definition Video Delivery in Diverse Fiber-Wireless Infrastructure. Fiber and Integrated Optics, 2013, 32, 93-104.	2.5	11
22	Fingerprint Entropy and Identification Capacity Estimation Based on Pixel-Level Generative Modelling. IEEE Transactions on Information Forensics and Security, 2020, 15, 56-65.	6.9	11
23	Probabilistically Shaped Rate-Adaptive Polar-Coded 256-QAM WDM Optical Transmission System. Journal of Lightwave Technology, 2020, 38, 1800-1808.	4.6	11
24	Edge-preserving intra depth coding based on context-coding and H.264/AVC. , 2013, , .		10
25	Light-Field View Synthesis Using A Convolutional Block Attention Module. , 2021, , .		10
26	Artifact reduction of compressed images and video combining adaptive fuzzy filtering and directional anisotropic diffusion. , 2011, , .		9
27	Using anisotropic diffusion equations in pixon domain for image de-noising. Signal, Image and Video Processing, 2013, 7, 1113-1124.	2.7	9
28	An objective method for High Dynamic Range source content selection. , 2014, , .		9
29	Method for Estimation and Correction of Perspective Distortion of Electroluminescence Images of Photovoltaic Panels. IEEE Journal of Photovoltaics, 2020, 10, 1797-1802.	2.5	9
30	Probabilistic Shaping for the Optical Phase Conjugation Channel. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-16.	2.9	9
31	Lossless Compression of Stereo Disparity Maps for 3D. , 2012, , .		8
32	Rate-Adaptive Concatenated Polar-Staircase Codes for Data Center Interconnects. , 2020, , .		8
33	Modeling the Quality of Videos Displayed With Local Dimming Backlight at Different Peak White and Ambient Light Levels. IEEE Transactions on Image Processing, 2016, 25, 3751-3761.	9.8	7
34	An Adaptive Multialphabet Arithmetic Coding Based on Generalized Virtual Sliding Window. IEEE Signal Processing Letters, 2017, 24, 1034-1038.	3.6	7
35	An Efficient Storage of Infrared Video of Drone Inspections via Iterative Aerial Map Construction. IEEE Signal Processing Letters, 2019, 26, 1157-1161.	3.6	7
36	Flexible Multilevel Coding with Concatenated Polar-Staircase Codes for M-QAM. IEEE Transactions on Communications, 2020, , 1-1.	7.8	7

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37	Impact of Signal-Conjugate Wavelength Shift on Optical Phase Conjugation-based Transmission of QAM Signals. , 2017, , .		6
38	SNR Study of Outdoor Electroluminescence Images under High Sun Irradiation. , 2018, , .		6
39	Correcting for Perspective Distortion in Electroluminescence Images of Photovoltaic Panels. , 2018, , .		6
40	EPIC: Context Adaptive Lossless Light Field Compression using Epipolar Plane Images. , 2020, , .		6
41	Epipolar Plane Image-Based Lossless and Near-Lossless Light Field Compression. IEEE Access, 2021, 9, 1124-1136.	4.2	6
42	Rate-Adaptive Concatenated Multi-Level Coding With Novel Probabilistic Amplitude Shaping. IEEE Transactions on Communications, 2022, 70, 2977-2991.	7.8	6
43	Objective assessment of the impact of frame rate on video quality. , 2012, , .		5
44	Error Concealment for 3-D DWT Based Video Codec Using Iterative Thresholding. IEEE Communications Letters, 2017, 21, 1731-1734.	4.1	5
45	Unrepeatered Transmission Reach Extension by Receiver-Side all-Optical Back-Propagation. , 2019, , .		5
46	Signal-to-Idler Conversion Penalty in AlGaAs-on-Insulator Wavelength Converter. , 2018, , .		5
47	Improved nonlinearity compensation of OPC-aided EDFA- amplified transmission by enhanced dispersion mapping. , 2020, , .		5
48	Modeling the color image and video quality on liquid crystal displays with backlight dimming. , 2013, , .		4
49	Outdoor electroluminescence acquisition using a movable testbed. , 2018, , .		4
50	An Experimental Demonstration of Rate-Adaptation Using Shaped Polar Codes for Flexible Optical Networks. Journal of Lightwave Technology, 2019, 37, 3357-3364.	4.6	4
51	Investigating subjective attributes of quality for videos displayed with local backlight dimming. , 2014, , .		3
52	Subjective quality of videos displayed with local backlight dimming at different peak white and ambient light levels. , 2015, , .		3
53	Approximating the constellation constrained capacity of the MIMO channel with discrete input. , 2015, , .		3
54	Enhancement of Electroluminescence images for fault detection in photovoltaic panels. , 2018, , .		3

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55	Enhanced dispersion mapping for OPC-aided transmission systems. , 2019, , .		3
56	Block Error Detection Driven Nonlinearity Compensation for Optical Fiber Communications. IEEE Photonics Technology Letters, 2021, 33, 461-464.	2.5	3
57	No-reference prediction of quality metrics for H.264-compressed infrared sequences for unmanned aerial vehicle applications. Journal of Electronic Imaging, 2019, 28, 1.	0.9	3
58	Attention Mechanism-Based Light-Field View Synthesis. IEEE Access, 2022, 10, 7895-7913.	4.2	3
59	Adaptive mode decision with residual motion compensation for distributed video coding. , 2013, , .		2
60	Optimizing the Achievable Rates of Tricky Channels: A Probabilistic Shaping for OPC Channel Example. , 2018, , .		2
61	Drone HDR Infrared Video Coding via Aerial Map Prediction. , 2018, , .		2
62	A Photovoltaic Module Diagnostic Setup for Lock-in Electroluminescence Imaging. , 2019, , .		2
63	Round-Robin Differential Phase-Time-Shifting Protocol for Quantum Key Distribution: Theory and Experiment. Physical Review Applied, 2021, 15, .	3.8	2
64	Improved Deep Distributed Light Field Coding. IEEE Open Journal of Circuits and Systems, 2021, 2, 325-337.	1.9	2
65	Simplified fiber-wireless distribution of HD video in passive and active W-band close proximity terminals. , 2012, , .		1
66	Enabling uncompressed video transmission in double-sideband 60 GHz radio-over-fiber links. , 2012, , .		1
67	Factorization properties of the optimal signaling distribution of multi-dimensional QAM constellations. , 2014, , .		1
68	Rate-Adaptive Polar-Coded Constellation Shaping for Flexible Optical Networks. , 2018, , .		1
69	Noise statistics and its implications on optimal constellation shapes for channels with optical phase conjugation. , 2020, , .		1
70	Reconstruction and Calibration of Contactless Electroluminescence Images From Laser Line Scanning of Photovoltaic Modules. IEEE Journal of Photovoltaics, 2022, 12, 696-702.	2.5	1
71	Experimental Demonstration of Rate-Adaptive Concatenated Codes for Flexible Optical Networks. IEEE Photonics Technology Letters, 2021, 33, 1447-1450.	2.5	1
72	On-board processing of video image sequences. , 2008, , .		0

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73	Extending models for two-dimensional constraints. , 2009, , .		0
74	Theoretical Framework for Evaluating Partial Checksum Protection in Wireless Video Streaming. , 2012, , .		0
75	OPtimal backlight scanning for 3D crosstalk reduction in LCD TV. , 2013, , .		0
76	A Simulation System for Scene Synthesis in Virtual Reality. Lecture Notes in Computer Science, 2021, , 67-84.	1.3	0
77	Learning-based lossless light field compression. , 2021, , .		0