Luca Schenato

List of Publications by Year
in descending order

49 papers	980 citations	567281 15 h-index	454955 30 g-index
50 all docs	50 docs citations	50 times ranked	941 citing authors

#	Article	IF	Citations
1	Drive-by-Wi-Fi: Model-Based Control Over Wireless at 1 kHz. IEEE Transactions on Control Systems Technology, 2022, 30, 1078-1089.	5.2	4
2	Repeated ETRTs in a Complex Stratified Geological Setting: High-Resolution Thermal Conductivity Identification by Multiple Linear Regression. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	9
3	Distributed fiber optics strain sensors: from long to short distance. Comptes Rendus - Geoscience, 2022, 354, 161-183.	1.2	3
4	An optical fiber-based monitoring system to study the seepage flow below the landside toe of a river levee. Journal of Civil Structural Health Monitoring, 2021, 11, 691-705.	3.9	17
5	A Rugged FBG-Based Pressure Sensor for Water Level Monitoring in Dikes. IEEE Sensors Journal, 2021, 21, 13263-13271.	4.7	22
6	Distributed acoustic sensing of debris flows in a physical model. , 2021, , .		4
7	Distributed optical fiber pressure sensors. Optical Fiber Technology, 2020, 58, 102239.	2.7	43
8	An Optical Fiber Distributed Pressure Sensing Cable With Pa-Sensitivity and Enhanced Spatial Resolution. IEEE Sensors Journal, 2020, 20, 5900-5908.	4.7	22
9	1 kHz Remote Control of a Balancing Robot with Wi-Fi-in-the-Loop. IFAC-PapersOnLine, 2020, 53, 2614-2619.	0.9	2
10	Composite Anchors for Slope Stabilisation: Monitoring of their In-Situ Behaviour with Optical Fibre. Geosciences (Switzerland), 2019, 9, 240.	2.2	19
11	Highly Sensitive FBG Pressure Sensor Based on a 3D-Printed Transducer. Journal of Lightwave Technology, 2019, 37, 4784-4790.	4.6	32
12	New Perspectives in Landslide Displacement Detection Using Sentinel-1 Datasets. Remote Sensing, 2019, 11, 2135.	4.0	16
13	Multidisciplinary Analysis and Modelling of a River Embankment Affected by Piping. Lecture Notes in Civil Engineering, 2019, , 234-244.	0.4	5
14	Design and field testing of a fiber optic pressure sensor for underground water level monitoring. , 2019, , .		3
15	An optical fibre cable for distributed pressure sensing: a proof of concept. , 2019, , .		2
16	Distributed strain measurements in a CFA pile using high spatial resolution fibre optic sensors. Engineering Structures, 2018, 160, 554-565.	5.3	35
17	Hands-On Experience of Crowdsourcing for Flood Risks. An Android Mobile Application Tested in Frederikssund, Denmark. International Journal of Environmental Research and Public Health, 2018, 15, 1926.	2.6	15
18	On the use of OFDR for high-spatial resolution strain measurements in mechanical and geotechnical engineering. , 2018, , .		6

#	Article	IF	Citations
19	Distributed Sensing in Geotechnical and Hydrological Applications. , 2018, , .		0
20	Monitoring the Foundation Soil of an Existing Levee Using Distributed Temperature Fiber Optic Sensors. Springer Series in Geomechanics and Geoengineering, 2018, , 677-680.	0.1	0
21	Soil thermal conductivity from early TRT logs using an active hybrid optic fibre system. , 2018, , .		6
22	Application of a high resolution distributed temperature sensor in a physical model reproducing subsurface water flow. Measurement: Journal of the International Measurement Confederation, 2017, 98, 321-324.	5.0	20
23	Distributed optical fibre sensing for early detection of shallow landslides triggering. Scientific Reports, 2017, 7, 14686.	3.3	91
24	A Review of Distributed Fibre Optic Sensors for Geo-Hydrological Applications. Applied Sciences (Switzerland), 2017, 7, 896.	2.5	152
25	A Monitoring Network to Map and Assess Landslide Activity in a Highly Anthropized Area. Geosciences (Switzerland), 2016, 6, 40.	2.2	4
26	Fiber optic sensor for hydrostatic pressure and temperature measurement in riverbanks monitoring. Optics and Laser Technology, 2016, 82, 57-62.	4.6	35
27	Semi-auxetic optical fibre distributed load sensor. , 2016, , .		0
28	A web-based platform for automatic and continuous landslide monitoring: The Rotolon (Eastern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	4.2	44
29	Improving the sensitivity of an interferometric fiber optic sensor for acoustic detection in rockfalls. , 2014, , .		1
30	Rockfall precursor detection based on rock fracturing monitoring by means of optical fibre sensors. International Journal of Sustainable Materials and Structural Systems, 2013, 1, 123.	0.1	2
31	The Role of Anisotropy in Few-Mode Optical Fibers. , 2013, , .		3
32	Single-Pump Parametric Amplification in Randomly Birefringent Unidirectionally Spun Fibers. IEEE Photonics Technology Letters, 2010, 22, 73-75.	2.5	5
33	Characterization of a novel dual-core elliptical hollow optical fiber with wavelength decreasing differential group delay. Optics Express, 2010, 18, 20344.	3.4	3
34	To Zero or to Hold Control Inputs With Lossy Links?. IEEE Transactions on Automatic Control, 2009, 54, 1093-1099.	5.7	242
35	Unidirectionally spun fibers for efficient narrow-band parametric amplification. , 2009, , .		2
36	Polarization control for slow and fast light in fiber optical, Raman-assisted, parametric amplification. Comptes Rendus Physique, 2009, 10, 980-990.	0.9	1

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37	Design, estimation and experimental validation of optical Polarization Mode Dispersion Compensator in 40 Gbit/s NRZ and RZ optical systems. Optical Fiber Technology, 2009, 15, 242-250.	2.7	2
38	Reflectometric Characterization of Hinges in Optical Fiber Links. IEEE Photonics Technology Letters, 2008, 20, 854-856.	2.5	7
39	Reflectometric measurement of birefringence rotation in single-mode optical fibers. Optics Letters, 2008, 33, 2284.	3.3	19
40	Distributed Polarization-Mode-Dispersion Measurement in Fiber Links by Polarization-Sensitive Reflectometric Techniques. IEEE Photonics Technology Letters, 2008, 20, 1944-1946.	2.5	19
41	Polarized Backward Raman Amplification in Unidirectionally Spun Fibers. IEEE Photonics Technology Letters, 2008, 20, 27-29.	2.5	11
42	About the Differential Group Delay of Spun Fibers. Journal of Lightwave Technology, 2008, 26, 3660-3668.	4.6	5
43	Fundamental and Random Birefringence Limitations to Delay in Slow Light Fiber Parametric Amplification. Journal of Lightwave Technology, 2008, 26, 3721-3726.	4.6	10
44	Narrow Band Optical Parametric Amplification for Slow Light in Randomly Birefringent Fibers. , 2008, , .		2
45	Fundamental limit of the achievable time delay in Slow-light NB-OPA. , 2008, , .		1
46	Influence of the birefringence autocorrelation function on the polarization mode dispersion of constantly spun fibers. Optics Letters, 2007, 32, 3236.	3.3	3
47	Simplified phenomenological model for randomly birefringent strongly spun fibers. Optics Letters, 2006, 31, 2275.	3.3	14
48	Polarization Mode Dispersion Management Using Unidirectionally Spun Fibers. Journal of Lightwave Technology, 2006, 24, 3976-3981.	4.6	3
49	Polarization properties of randomly-birefringent spun fibers. Optical Fiber Technology, 2006, 12, 205-216.	2.7	13