

Lucio Soibelman

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60 papers	1,742 citations	25 h-index	41 g-index
63 ext. papers	2,096 ext. citations	5.5 avg, IF	4.87 L-index

#	Paper	IF	Citations
60	Investigation on performance of RGB point cloud and thermal information data fusion for 3D building thermal map modeling using aerial images under different experimental conditions. <i>Journal of Building Engineering</i> , 2022 , 45, 103380	5.2	3
59	Socioeconomic impacts of resilience to seaport and highway transportation network disruption. <i>Transportation Research, Part D: Transport and Environment</i> , 2022 , 106, 103236	6.4	0
58	A data-driven framework to evaluate the indirect economic impacts of transportation infrastructure disruptions. <i>International Journal of Disaster Risk Reduction</i> , 2022 , 102946	4.5	1
57	Conceptual Framework for Building Permit Process Modeling: Lessons Learned from a Comparison between Germany and the United States regarding the As-Is Building Permit Processes. <i>Buildings</i> , 2022 , 12, 638	3.2	1
56	An Approach to Semantically Segmenting Building Components and Outdoor Scenes Based on Multichannel Aerial Imagery Datasets. <i>Remote Sensing</i> , 2021 , 13, 4357	5	2
55	Fusing tie points TRGB and thermal information for mapping large areas based on aerial images: A study of fusion performance under different flight configurations and experimental conditions. <i>Automation in Construction</i> , 2021 , 124, 103554	9.6	9
54	A Novel Building Temperature Simulation Approach Driven by Expanding Semantic Segmentation Training Datasets with Synthetic Aerial Thermal Images. <i>Energies</i> , 2021 , 14, 353	3.1	3
53	An Immersive Virtual Learning Environment for Worker-Robot Collaboration on Construction Sites 2020 ,		1
52	Photogrammetric Point Cloud Segmentation and Object Information Extraction for Creating Virtual Environments and Simulations. <i>Journal of Management in Engineering - ASCE</i> , 2020 , 36, 04019046	5.3	8
51	CRAFT: Comprehensive Resilience Assessment Framework for Transportation Systems in Urban Areas. <i>Advanced Engineering Informatics</i> , 2020 , 46, 101159	7.4	10
50	3D Photogrammetry Point Cloud Segmentation Using a Model Ensembling Framework. <i>Journal of Computing in Civil Engineering</i> , 2020 , 34, 04020048	5	4
49	Intelligent adaptive automation: A framework for an activity-driven and user-centered building automation. <i>Energy and Buildings</i> , 2019 , 188-189, 184-199	7	15
48	Factors Affecting the Performance of 3D Thermal Mapping for Energy Audits in a District by Using Infrared Thermography (IRT) Mounted on Unmanned Aircraft Systems (UAS) 2019 ,		2
47	Semantic Modeling of Outdoor Scenes for the Creation of Virtual Environments and Simulations 2019 ,		2
46	Real-time activity recognition for energy efficiency in buildings. <i>Applied Energy</i> , 2018 , 211, 146-160	10.7	50
45	Disturbances to Urban Mobility and Comprehensive Estimation of Economic Losses. <i>Polytechnica</i> , 2018 , 1, 48-60	1	3
44	EMBED 2018 ,		8

43	Disaster Economics and Networked Transportation Infrastructures: Status Quo and a Multi-disciplinary Framework to Estimate Economic Losses. <i>Lecture Notes in Computer Science</i> , 2018 , 3-22	0.9	3
42	Proactive 2D model-based scan planning for existing buildings. <i>Automation in Construction</i> , 2018 , 93, 165-177	9.6	14
41	One size does not fit all: Understanding user preferences for building automation systems. <i>Energy and Buildings</i> , 2017 , 145, 163-173	7	28
40	Automated measurement of highway retaining wall displacements using terrestrial laser scanners. <i>Automation in Construction</i> , 2016 , 65, 86-101	9.6	42
39	Algorithms for automated generation of navigation models from building information models to support indoor map-matching. <i>Automation in Construction</i> , 2016 , 61, 24-41	9.6	37
38	A framework for allocating personalized appliance-level disaggregated electricity consumption to daily activities. <i>Energy and Buildings</i> , 2016 , 111, 337-350	7	27
37	Comparative assessment of an indoor localization framework for building emergency response. <i>Automation in Construction</i> , 2015 , 57, 42-54	9.6	16
36	Iterative Maximum Likelihood Estimation Algorithm: Leveraging Building Information and Sensing Infrastructure for Localization during Emergencies. <i>Journal of Computing in Civil Engineering</i> , 2015 , 29, 04014094	5	10
35	A BIM centered indoor localization algorithm to support building fire emergency response operations. <i>Automation in Construction</i> , 2014 , 42, 78-89	9.6	117
34	Situational awareness for supporting building fire emergency response: Information needs, information sources, and implementation requirements. <i>Fire Safety Journal</i> , 2014 , 63, 17-28	3.3	35
33	An unsupervised hierarchical clustering based heuristic algorithm for facilitated training of electricity consumption disaggregation systems. <i>Advanced Engineering Informatics</i> , 2014 , 28, 311-326	7.4	30
32	Spatiotemporal lighting load disaggregation using light intensity signal. <i>Energy and Buildings</i> , 2014 , 69, 572-583	7	16
31	Toward Data-Driven Structural Health Monitoring: Application of Machine Learning and Signal Processing to Damage Detection. <i>Journal of Computing in Civil Engineering</i> , 2013 , 27, 667-680	5	77
30	Damage Detection in Pipes under Changing Environmental Conditions Using Embedded Piezoelectric Transducers and Pattern Recognition Techniques. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2013 , 4, 17-23	1.5	14
29	Analysis of Three Indoor Localization Technologies for Supporting Operations and Maintenance Field Tasks. <i>Journal of Computing in Civil Engineering</i> , 2012 , 26, 708-719	5	39
28	Robust change detection in highly dynamic guided wave signals with singular value decomposition 2012 ,		9
27	Sensing and Field Data Capture for Construction and Facility Operations. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011 , 137, 870-881	4.2	36
26	Data-Fusion Approaches and Applications for Construction Engineering. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011 , 137, 863-869	4.2	26

25	Robust adaptive event detection in non-intrusive load monitoring for energy aware smart facilities 2011 ,		16
24	Detection of Patterns in Water Distribution Pipe Breakage Using Spatial Scan Statistics for Point Events in a Physical Network. <i>Journal of Computing in Civil Engineering</i> , 2011 , 25, 21-30	5	33
23	User-Centered Nonintrusive Electricity Load Monitoring for Residential Buildings. <i>Journal of Computing in Civil Engineering</i> , 2011 , 25, 471-480	5	79
22	Mobile Ad Hoc Network-Enabled Collaboration Framework Supporting Civil Engineering Emergency Response Operations. <i>Journal of Computing in Civil Engineering</i> , 2010 , 24, 302-312	5	44
21	Enhancing Electricity Audits in Residential Buildings with Nonintrusive Load Monitoring. <i>Journal of Industrial Ecology</i> , 2010 , 14, 844-858	7.2	94
20	Data Management for Geospatial Vulnerability Assessment of Interdependencies in U.S. Power Generation. <i>Journal of Infrastructure Systems</i> , 2009 , 15, 179-189	2.9	11
19	Incorporating Domain Knowledge and Information Retrieval Techniques to Develop an Architectural/Engineering/Construction Online Product Search Engine. <i>Journal of Computing in Civil Engineering</i> , 2009 , 23, 201-210	5	17
18	Single Antenna Time Reversal of Guided Waves in Pipelines 2009 ,		1
17	The New Editors and Their Plans for the Journal of Computing in Civil Engineering. <i>Journal of Computing in Civil Engineering</i> , 2008 , 22, 231-232	5	1
16	Shape-Based Retrieval of Construction Site Photographs. <i>Journal of Computing in Civil Engineering</i> , 2008 , 22, 14-20	5	45
15	Imagery enhancement and interpretation for remote visual inspection of aging civil infrastructure. <i>Tsinghua Science and Technology</i> , 2008 , 13, 375-380	3.4	5
14	Training load monitoring algorithms on highly sub-metered home electricity consumption data. <i>Tsinghua Science and Technology</i> , 2008 , 13, 406-411	3.4	26
13	Factor selection for delay analysis using Knowledge Discovery in Databases. <i>Automation in Construction</i> , 2008 , 17, 550-560	9.6	24
12	Multimodal Image Retrieval from Construction Databases and Model-Based Systems. <i>Journal of Construction Engineering and Management - ASCE</i> , 2006 , 132, 777-785	4.2	19
11	Automatic Visual Data Interpretation for Pipeline Infrastructure Assessment 2006 , 49		
10	Promoting transactions for A/E/C product information. <i>Automation in Construction</i> , 2006 , 15, 746-757	9.6	15
9	Material-Based Construction Site Image Retrieval. <i>Journal of Computing in Civil Engineering</i> , 2005 , 19, 341-355	5	50
8	Methodology for the Integration of Project Documents in Model-Based Information Systems. <i>Journal of Computing in Civil Engineering</i> , 2005 , 19, 25-33	5	52

7	A new approach to spatial analysis in CAMA. <i>Property Management</i> , 2005 , 23, 312-327	1	6
6	Content-Based Search Engines for construction image databases. <i>Automation in Construction</i> , 2005 , 14, 537-550	9.6	20
5	Automating hierarchical document classification for construction management information systems. <i>Automation in Construction</i> , 2003 , 12, 395-406	9.6	115
4	Design Review Checking System with Corporate Lessons Learned. <i>Journal of Construction Engineering and Management - ASCE</i> , 2003 , 129, 475-484	4.2	41
3	Automated Classification of Construction Project Documents. <i>Journal of Computing in Civil Engineering</i> , 2002 , 16, 234-243	5	91
2	Material Waste in Building Industry: Main Causes and Prevention. <i>Journal of Construction Engineering and Management - ASCE</i> , 2002 , 128, 316-325	4.2	205
1	Distributed Multi-Reasoning Mechanism to Support Conceptual Structural Design. <i>Journal of Structural Engineering</i> , 2000 , 126, 733-742	3	32