

# Lucio Soibelman

## List of Publications by Year in descending order

Source: [//exaly.com/author-pdf/6559234/publications.pdf](https://exaly.com/author-pdf/6559234/publications.pdf)

Version: 2024-02-01

65  
papers

2,548  
citations

178989

28  
h-index

197947

49  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2297  
citing authors

#	ARTICLE	IF	CITATIONS
1	Material Waste in Building Industry: Main Causes and Prevention. Journal of Construction Engineering and Management - ASCE, 2002, 128, 316-325.	4.0	275
2	A BIM centered indoor localization algorithm to support building fire emergency response operations. Automation in Construction, 2014, 42, 78-89.	10.0	161
3	Automating hierarchical document classification for construction management information systems. Automation in Construction, 2003, 12, 395-406.	10.0	148
4	Automated Classification of Construction Project Documents. Journal of Computing in Civil Engineering, 2002, 16, 234-243.	4.9	123
5	Enhancing Electricity Audits in Residential Buildings with Nonintrusive Load Monitoring. Journal of Industrial Ecology, 2010, 14, 844-858.	5.7	122
6	User-Centered Nonintrusive Electricity Load Monitoring for Residential Buildings. Journal of Computing in Civil Engineering, 2011, 25, 471-480.	4.9	112
7	Toward Data-Driven Structural Health Monitoring: Application of Machine Learning and Signal Processing to Damage Detection. Journal of Computing in Civil Engineering, 2013, 27, 667-680.	4.9	109
8	Real-time activity recognition for energy efficiency in buildings. Applied Energy, 2018, 211, 146-160.	10.3	78
9	Methodology for the Integration of Project Documents in Model-Based Information Systems. Journal of Computing in Civil Engineering, 2005, 19, 25-33.	4.9	68
10	Automated measurement of highway retaining wall displacements using terrestrial laser scanners. Automation in Construction, 2016, 65, 86-101.	10.0	66
11	Shape-Based Retrieval of Construction Site Photographs. Journal of Computing in Civil Engineering, 2008, 22, 14-20.	4.9	63
12	Material-Based Construction Site Image Retrieval. Journal of Computing in Civil Engineering, 2005, 19, 341-355.	4.9	61
13	Algorithms for automated generation of navigation models from building information models to support indoor map-matching. Automation in Construction, 2016, 61, 24-41.	10.0	61
14	Sensing and Field Data Capture for Construction and Facility Operations. Journal of Construction Engineering and Management - ASCE, 2011, 137, 870-881.	4.0	53
15	Situational awareness for supporting building fire emergency response: Information needs, information sources, and implementation requirements. Fire Safety Journal, 2014, 63, 17-28.	3.1	52
16	Design Review Checking System with Corporate Lessons Learned. Journal of Construction Engineering and Management - ASCE, 2003, 129, 475-484.	4.0	49
17	Mobile Ad Hoc Network-Enabled Collaboration Framework Supporting Civil Engineering Emergency Response Operations. Journal of Computing in Civil Engineering, 2010, 24, 302-312.	4.9	49
18	Factor selection for delay analysis using Knowledge Discovery in Databases. Automation in Construction, 2008, 17, 550-560.	10.0	44

#	ARTICLE	IF	CITATIONS
19	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.	4.9	44
20	One size does not fit all: Understanding user preferences for building automation systems. <i>Energy and Buildings</i> , 2017, 145, 163-173.	6.8	43
21	Training load monitoring algorithms on highly sub-metered home electricity consumption data. <i>Tsinghua Science and Technology</i> , 2008, 13, 406-411.	6.4	41
22	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.	4.9	40
23	Data-Fusion Approaches and Applications for Construction Engineering. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011, 137, 863-869.	4.0	38
24	An unsupervised hierarchical clustering based heuristic algorithm for facilitated training of electricity consumption disaggregation systems. <i>Advanced Engineering Informatics</i> , 2014, 28, 311-326.	8.3	38
25	Distributed Multi-Reasoning Mechanism to Support Conceptual Structural Design. <i>Journal of Structural Engineering</i> , 2000, 126, 733-742.	3.5	37
26	Impact of VR-Based Training on Human-Robot Interaction for Remote Operating Construction Robots. <i>Journal of Computing in Civil Engineering</i> , 2022, 36, .	4.9	36
27	A framework for allocating personalized appliance-level disaggregated electricity consumption to daily activities. <i>Energy and Buildings</i> , 2016, 111, 337-350.	6.8	35
28	Proactive 2D model-based scan planning for existing buildings. <i>Automation in Construction</i> , 2018, 93, 165-177.	10.0	33
29	CRAFT: Comprehensive Resilience Assessment Framework for Transportation Systems in Urban Areas. <i>Advanced Engineering Informatics</i> , 2020, 46, 101159.	8.3	29
30	Intelligent adaptive automation: A framework for an activity-driven and user-centered building automation. <i>Energy and Buildings</i> , 2019, 188-189, 184-199.	6.8	28
31	Fusing tie points' RGB 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.	10.0	28
32	Content-Based Search Engines for construction image databases. <i>Automation in Construction</i> , 2005, 14, 537-550.	10.0	27
33	Robust adaptive event detection in non-intrusive load monitoring for energy aware smart facilities. , 2011, , .		27
34	EMBED. , 2018, , .		25
35	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.	4.9	23
36	Spatiotemporal lighting load disaggregation using light intensity signal. <i>Energy and Buildings</i> , 2014, 69, 572-583.	6.8	23

#	ARTICLE	IF	CITATIONS
37	Multimodal Image Retrieval from Construction Databases and Model-Based Systems. Journal of Construction Engineering and Management - ASCE, 2006, 132, 777-785.	4.0	22
38	Photogrammetric Point Cloud Segmentation and Object Information Extraction for Creating Virtual Environments and Simulations. Journal of Management in Engineering - ASCE, 2020, 36, .	4.8	20
39	Promoting transactions for A/E/C product information. Automation in Construction, 2006, 15, 746-757.	10.0	19
40	Comparative assessment of an indoor localization framework for building emergency response. Automation in Construction, 2015, 57, 42-54.	10.0	19
41	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. Journal of Building Engineering, 2022, 45, 103380.	3.5	18
42	Socioeconomic impacts of resilience to seaport and highway transportation network disruption. Transportation Research, Part D: Transport and Environment, 2022, 106, 103236.	6.9	17
43	Damage Detection in Pipes under Changing Environmental Conditions Using Embedded Piezoelectric Transducers and Pattern Recognition Techniques. Journal of Pipeline Systems Engineering and Practice, 2013, 4, 17-23.	1.6	15
44	3D Photogrammetry Point Cloud Segmentation Using a Model Ensembling Framework. Journal of Computing in Civil Engineering, 2020, 34, .	4.9	13
45	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. Buildings, 2022, 12, 638.	3.2	12
46	Data Management for Geospatial Vulnerability Assessment of Interdependencies in U.S. Power Generation. Journal of Infrastructure Systems, 2009, 15, 179-189.	1.9	11
47	Iterative Maximum Likelihood Estimation Algorithm: Leveraging Building Information and Sensing Infrastructure for Localization during Emergencies. Journal of Computing in Civil Engineering, 2015, 29, .	4.9	11
48	Imagery enhancement and interpretation for remote visual inspection of aging civil infrastructure. Tsinghua Science and Technology, 2008, 13, 375-380.	6.4	10
49	Robust change detection in highly dynamic guided wave signals with singular value decomposition. , 2012, , .		10
50	A data-driven framework to evaluate the indirect economic impacts of transportation infrastructure disruptions. International Journal of Disaster Risk Reduction, 2022, 75, 102946.	4.0	10
51	An Immersive Virtual Learning Environment for Worker-Robot Collaboration on Construction Sites. , 2020, , .		8
52	A new approach to spatial analysis in CAMA. Property Management, 2005, 23, 312-327.	0.9	7
53	A Novel Building Temperature Simulation Approach Driven by Expanding Semantic Segmentation Training Datasets with Synthetic Aerial Thermal Images. Energies, 2021, 14, 353.	3.2	6
54	Disturbances to Urban Mobility and Comprehensive Estimation of Economic Losses. Polytechnica, 2018, 1, 48-60.	2.2	5

#	ARTICLE	IF	CITATIONS
55	Disaster Economics and Networked Transportation Infrastructures: Status Quo and a Multi-disciplinary Framework to Estimate Economic Losses. Lecture Notes in Computer Science, 2018, , 3-22.	1.0	5
56	An Approach to Semantically Segmenting Building Components and Outdoor Scenes Based on Multichannel Aerial Imagery Datasets. Remote Sensing, 2021, 13, 4357.	4.1	5
57	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). ISARC Proceedings, 2019, , .	0.0	4
58	A framework for investigating the acceptance of smart home technologies: Findings for residential smart HVAC systems. Building and Environment, 2023, 245, 110935.	7.0	4
59	Automatic Visual Data Interpretation for Pipeline Infrastructure Assessment. , 2006, , 49.		2
60	Single Antenna Time Reversal of Guided Waves in Pipelines. Proceedings of Meetings on Acoustics, 2009, , .	0.0	2
61	Process model for international building permit benchmarking and a validation example using the Israeli building permit process. Engineering, Construction and Architectural Management, 2023, 31, 121-139.	3.5	2
62	The New Editors and Their Plans for the Journal of Computing in Civil Engineering. Journal of Computing in Civil Engineering, 2008, 22, 231-232.	4.9	1
63	A research agenda for construction management in the 4.0 era. , 2023, , 193-220.		1
64	Optimization of Point Cloudsâ€™ RGB and Thermal Information Data Fusion for Buildingsâ€™ 3D Thermal Mapping. , 2022, , .		0
65	PACEâ€™BP: Process Analysis and Comparative Evaluation of Building Permit Processes in a Global Perspective. Journal of Management in Engineering - ASCE, 2024, 40, .	4.8	0