# Lucio Soibelman

## List of Publications by Citations

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|---|---|
| **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 | Material Waste in Building Industry: Main Causes and Prevention. *Journal of Construction Engineering and Management - ASCE*, **2002**, 128, 316-325 | 4.2 | 205 |
| 59 | A BIM centered indoor localization algorithm to support building fire emergency response operations. *Automation in Construction*, **2014**, 42, 78-89 | 9.6 | 117 |
| 58 | Automating hierarchical document classification for construction management information systems. *Automation in Construction*, **2003**, 12, 395-406 | 9.6 | 115 |
| 57 | Enhancing Electricity Audits in Residential Buildings with Nonintrusive Load Monitoring. *Journal of Industrial Ecology*, **2010**, 14, 844-858 | 7.2 | 94 |
| 56 | Automated Classification of Construction Project Documents. *Journal of Computing in Civil Engineering*, **2002**, 16, 234-243 | 5 | 91 |
| 55 | User-Centered Nonintrusive Electricity Load Monitoring for Residential Buildings. *Journal of Computing in Civil Engineering*, **2011**, 25, 471-480 | 5 | 79 |
| 54 | 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 | 5 | 77 |
| 53 | Methodology for the Integration of Project Documents in Model-Based Information Systems. *Journal of Computing in Civil Engineering*, **2005**, 19, 25-33 | 5 | 52 |
| 52 | Real-time activity recognition for energy efficiency in buildings. *Applied Energy*, **2018**, 211, 146-160 | 10.7 | 50 |
| 51 | Material-Based Construction Site Image Retrieval. *Journal of Computing in Civil Engineering*, **2005**, 19, 341-355 | 5 | 50 |
| 50 | Shape-Based Retrieval of Construction Site Photographs. *Journal of Computing in Civil Engineering*, **2008**, 22, 14-20 | 5 | 45 |
| 49 | Mobile Ad Hoc Network-Enabled Collaboration Framework Supporting Civil Engineering Emergency Response Operations. *Journal of Computing in Civil Engineering*, **2010**, 24, 302-312 | 5 | 44 |
| 48 | Automated measurement of highway retaining wall displacements using terrestrial laser scanners. *Automation in Construction*, **2016**, 65, 86-101 | 9.6 | 42 |
| 47 | Design Review Checking System with Corporate Lessons Learned. *Journal of Construction Engineering and Management - ASCE*, **2003**, 129, 475-484 | 4.2 | 41 |
| 46 | Analysis of Three Indoor Localization Technologies for Supporting Operations and Maintenance Field Tasks. *Journal of Computing in Civil Engineering*, **2012**, 26, 708-719 | 5 | 39 |
| 45 | Algorithms for automated generation of navigation models from building information models to support indoor map-matching. *Automation in Construction*, **2016**, 61, 24-41 | 9.6 | 37 |
| 44 | Sensing and Field Data Capture for Construction and Facility Operations. *Journal of Construction Engineering and Management - ASCE*, **2011**, 137, 870-881 | 4.2 | 36 |

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|---|---|---|---|
| 43 | Situational awareness for supporting building fire emergency response: Information needs, information sources, and implementation requirements. *Fire Safety Journal*, **2014**, 63, 17-28 | 3.3 | 35 |
| 42 | Detection of Patterns in Water Distribution Pipe Breakage Using Spatial Scan Statistics for Point Events in a Physical Network. *Journal of Computing in Civil Engineering*, **2011**, 25, 21-30 | 5 | 33 |
| 41 | Distributed Multi-Reasoning Mechanism to Support Conceptual Structural Design. *Journal of Structural Engineering*, **2000**, 126, 733-742 | 3 | 32 |
| 40 | An unsupervised hierarchical clustering based heuristic algorithm for facilitated training of electricity consumption disaggregation systems. *Advanced Engineering Informatics*, **2014**, 28, 311-326 | 7.4 | 30 |
| 39 | One size does not fit all: Understanding user preferences for building automation systems. *Energy and Buildings*, **2017**, 145, 163-173 | 7 | 28 |
| 38 | A framework for allocating personalized appliance-level disaggregated electricity consumption to daily activities. *Energy and Buildings*, **2016**, 111, 337-350 | 7 | 27 |
| 37 | Data-Fusion Approaches and Applications for Construction Engineering. *Journal of Construction Engineering and Management - ASCE*, **2011**, 137, 863-869 | 4.2 | 26 |
| 36 | Training load monitoring algorithms on highly sub-metered home electricity consumption data. *Tsinghua Science and Technology*, **2008**, 13, 406-411 | 3.4 | 26 |
| 35 | Factor selection for delay analysis using Knowledge Discovery in Databases. *Automation in Construction*, **2008**, 17, 550-560 | 9.6 | 24 |
| 34 | Content-Based Search Engines for construction image databases. *Automation in Construction*, **2005**, 14, 537-550 | 9.6 | 20 |
| 33 | Multimodal Image Retrieval from Construction Databases and Model-Based Systems. *Journal of Construction Engineering and Management - ASCE*, **2006**, 132, 777-785 | 4.2 | 19 |
| 32 | Incorporating Domain Knowledge and Information Retrieval Techniques to Develop an Architectural/Engineering/Construction Online Product Search Engine. *Journal of Computing in Civil Engineering*, **2009**, 23, 201-210 | 5 | 17 |
| 31 | Comparative assessment of an indoor localization framework for building emergency response. *Automation in Construction*, **2015**, 57, 42-54 | 9.6 | 16 |
| 30 | Spatiotemporal lighting load disaggregation using light intensity signal. *Energy and Buildings*, **2014**, 69, 572-583 | 7 | 16 |
| 29 | Robust adaptive event detection in non-intrusive load monitoring for energy aware smart facilities **2011**, | | 16 |
| 28 | Intelligent adaptive automation: A framework for an activity-driven and user-centered building automation. *Energy and Buildings*, **2019**, 188-189, 184-199 | 7 | 15 |
| 27 | Promoting transactions for A/E/C product information. *Automation in Construction*, **2006**, 15, 746-757 | 9.6 | 15 |
| 26 | Damage Detection in Pipes under Changing EnvironmentalConditions Using Embedded Piezoelectric Transducers and Pattern RecognitionTechniques. *Journal of Pipeline Systems Engineering and Practice*, **2013**, 4, 17-23 | 1.5 | 14 |

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|---|---|---|---|
| 25 | Proactive 2D model-based scan planning for existing buildings. *Automation in Construction*, **2018**, 93, 165-177 | 9.6 | 14 |
| 24 | Data Management for Geospatial Vulnerability Assessment of Interdependencies in U.S. Power Generation. *Journal of Infrastructure Systems*, **2009**, 15, 179-189 | 2.9 | 11 |
| 23 | Iterative Maximum Likelihood Estimation Algorithm: Leveraging Building Information and Sensing Infrastructure for Localization during Emergencies. *Journal of Computing in Civil Engineering*, **2015**, 29, 04014094 | 5 | 10 |
| 22 | CRAFT: Comprehensive Resilience Assessment Framework for Transportation Systems in Urban Areas. *Advanced Engineering Informatics*, **2020**, 46, 101159 | 7.4 | 10 |
| 21 | Robust change detection in highly dynamic guided wave signals with singular value decomposition **2012**, | | 9 |
| 20 | Fusing tie pointsTRGB and thermal information for mapping large areas based on aerial images: A study of fusion performance under different flight configurations and experimental conditions. *Automation in Construction*, **2021**, 124, 103554 | 9.6 | 9 |
| 19 | EMBED **2018**, | | 8 |
| 18 | Photogrammetric Point Cloud Segmentation and Object Information Extraction for Creating Virtual Environments and Simulations. *Journal of Management in Engineering - ASCE*, **2020**, 36, 04019046 | 5.3 | 8 |
| 17 | A new approach to spatial analysis in CAMA. *Property Management*, **2005**, 23, 312-327 | 1 | 6 |
| 16 | Imagery enhancement and interpretation for remote visual inspection of aging civil infrastructure. *Tsinghua Science and Technology*, **2008**, 13, 375-380 | 3.4 | 5 |
| 15 | 3D Photogrammetry Point Cloud Segmentation Using a Model Ensembling Framework. *Journal of Computing in Civil Engineering*, **2020**, 34, 04020048 | 5 | 4 |
| 14 | Disturbances to Urban Mobility and Comprehensive Estimation of Economic Losses. *Polytechnica*, **2018**, 1, 48-60 | 1 | 3 |
| 13 | 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 | 5.2 | 3 |
| 12 | 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 | 0.9 | 3 |
| 11 | A Novel Building Temperature Simulation Approach Driven by Expanding Semantic Segmentation Training Datasets with Synthetic Aerial Thermal Images. *Energies*, **2021**, 14, 353 | 3.1 | 3 |
| 10 | 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 |
| 9 | Semantic Modeling of Outdoor Scenes for the Creation of Virtual Environments and Simulations **2019**, | | 2 |
| 8 | An Approach to Semantically Segmenting Building Components and Outdoor Scenes Based on Multichannel Aerial Imagery Datasets. *Remote Sensing*, **2021**, 13, 4357 | 5 | 2 |

# LIST OF PUBLICATIONS

| 7 | Single Antenna Time Reversal of Guided Waves in Pipelines **2009**, | | 1 |
|---|---|---|---|
| 6 | The New Editors and Their Plans for the Journal of Computing in Civil Engineering. *Journal of Computing in Civil Engineering*, **2008**, 22, 231-232 | 5 | 1 |
| 5 | An Immersive Virtual Learning Environment for Worker-Robot Collaboration on Construction Sites **2020**, | | 1 |
| 4 | A data-driven framework to evaluate the indirect economic impacts of transportation infrastructure disruptions. *International Journal of Disaster Risk Reduction*, **2022**, 102946 | 4.5 | 1 |
| 3 | 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 | 1 |
| 2 | Socioeconomic impacts of resilience to seaport and highway transportation network disruption. *Transportation Research, Part D: Transport and Environment*, **2022**, 106, 103236 | 6.4 | 0 |
| 1 | Automatic Visual Data Interpretation for Pipeline Infrastructure Assessment **2006**, 49 | | |