

# Sanghyun Lee

## List of Publications by Year in Descending Order

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**Version:** 2023-06-07

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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.

141  
papers

3,876  
citations

36  
h-index

56  
g-index

160  
ext. papers

5,008  
ext. citations

5.2  
avg, IF

6.24  
L-index

#	Paper	IF	Citations
141	Advancing Towards Automated Ergonomic Assessment: A Panel of Perspectives. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 585-591	0.3	
140	Feasibility of a Mobile Electroencephalogram (EEG) Sensor-Based Stress Type Classification for Construction Workers <b>2022</b> ,		1
139	Assessing exposure to slip, trip, and fall hazards based on abnormal gait patterns predicted from confidence interval estimation. <i>Automation in Construction</i> , <b>2022</b> , 139, 104253	4	1
138	Agent-embedded system dynamics (aeSD) modeling approach for analyzing worker policies: a research case on construction worker absenteeism. <i>Construction Innovation</i> , <b>2021</b> , 21, 379-397	1.2	
137	Digital Twin for Supply Chain Coordination in Modular Construction. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 5909	0.9	21
136	Automated postural ergonomic risk assessment using vision-based posture classification. <i>Automation in Construction</i> , <b>2021</b> , 128, 103725	4	8
135	Paving the Way for Future EEG Studies in Construction: Dependent Component Analysis for Automatic Ocular Artifact Removal from Brainwave Signals. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2021</b> , 147, 04021087	1.5	4
134	Assessing occupational risk of heat stress at construction: A worker-centric wearable sensor-based approach. <i>Safety Science</i> , <b>2021</b> , 142, 105395	2.5	5
133	Assessment of construction workers' perceived risk using physiological data from wearable sensors: A machine learning approach. <i>Journal of Building Engineering</i> , <b>2021</b> , 42, 102824	1.8	6
132	Proximity Prediction of Mobile Objects to Prevent Contact-Driven Accidents in Co-Robotic Construction. <i>Journal of Computing in Civil Engineering</i> , <b>2020</b> , 34, 04020022	2.5	6
131	Social network analysis of change management processes for communication assessment. <i>Automation in Construction</i> , <b>2020</b> , 118, 103292	4	12
130	Effective Green-Ampt Parameters for Two-Layered Soils. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2020</b> , 25, 04020004	0.7	3
129	Ocular Artifacts Reduction in EEG Signals Acquired at Construction Sites by Applying a Dependent Component Analysis (DCA) <b>2020</b> ,		3
128	Multi-Level Assessment of Occupational Stress in the Field Using a Wearable EEG Headset <b>2020</b> ,		3
127	Wearable Biosensor and Collective Sensing-Based Approach for Detecting Older Adults' Environmental Barriers. <i>Journal of Computing in Civil Engineering</i> , <b>2020</b> , 34, 04020002	2.5	13
126	An energy-cyber-physical system for personalized normative messaging interventions: Identification and classification of behavioral reference groups. <i>Applied Energy</i> , <b>2020</b> , 260, 114237	4.8	9
125	Non-Invasive Behavioral Reference Group Categorization Considering Temporal Granularity and Aggregation Level of Energy Use Data. <i>Energies</i> , <b>2020</b> , 13, 3678	1.2	2

124	Noise Reference Signal-Based Denoising Method for EDA Collected by Multimodal Biosensor Wearable in the Field. <i>Journal of Computing in Civil Engineering</i> , <b>2020</b> , 34, 04020044	2.5	3
123	Wearable Biosensor and Hotspot Analysis-Based Framework to Detect Stress Hotspots for Advancing Elderly's Mobility. <i>Journal of Management in Engineering - ASCE</i> , <b>2020</b> , 36, 04020010	1.7	20
122	Semantic Relation Detection between Construction Entities to Support Safe Human-Robot Collaboration in Construction <b>2019</b> ,		4
121	Wearable Sensing Technology Applications in Construction Safety and Health. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2019</b> , 145, 03119007	1.5	57
120	Fast Dataset Collection Approach for Articulated Equipment Pose Estimation <b>2019</b> ,		1
119	Application of Wearable Biosensors to Construction Sites. II: Assessing Workers' Physical Demand. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2019</b> , 145, 04019080	1.5	13
118	Application of Wearable Biosensors to Construction Sites. I: Assessing Workers' Stress. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2019</b> , 145, 04019079	1.5	33
117	A vision-based marker-less pose estimation system for articulated construction robots. <i>Automation in Construction</i> , <b>2019</b> , 104, 80-94	4	34
116	Feasibility of Wearable Electromyography (EMG) to Assess Construction Workers' Muscle Fatigue <b>2019</b> , 181-187		14
115	Feasibility analysis of electrodermal activity (EDA) acquired from wearable sensors to assess construction workers' perceived risk. <i>Safety Science</i> , <b>2019</b> , 115, 110-120	2.5	41
114	Reference Signal-Based Method to Remove Respiration Noise in Electrodermal Activity (EDA) Collected from the Field <b>2019</b> ,		4
113	A Continuously Updated, Computationally Efficient Stress Recognition Framework Using Electroencephalogram (EEG) by Applying Online Multitask Learning Algorithms (OMTL). <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2019</b> , 23, 1928-1939	2	29
112	Remote proximity monitoring between mobile construction resources using camera-mounted UAVs. <i>Automation in Construction</i> , <b>2019</b> , 99, 168-182	4	81
111	Automated Action Recognition Using an Accelerometer-Embedded Wristband-Type Activity Tracker. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2019</b> , 145, 04018114	1.5	48
110	Mobile EEG-Based Workers' Stress Recognition by Applying Deep Neural Network <b>2019</b> , 173-180		29
109	A comparative study of in-field motion capture approaches for body kinematics measurement in construction. <i>Robotica</i> , <b>2019</b> , 37, 928-946	0.8	11
108	Measuring Workers' Emotional State during Construction Tasks Using Wearable EEG. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2018</b> , 144, 04018050	1.5	73
107	Application of dynamic time warping to the recognition of mixed equipment activities in cycle time measurement. <i>Automation in Construction</i> , <b>2018</b> , 87, 225-234	4	43

106	Recognizing Diverse Construction Activities in Site Images via Relevance Networks of Construction-Related Objects Detected by Convolutional Neural Networks. <i>Journal of Computing in Civil Engineering</i> , <b>2018</b> , 32, 04018012	2.5	72
105	How to Improve Interface Management Behaviors in EPC Projects: Roles of Formal Practices and Social Norms. <i>Journal of Management in Engineering - ASCE</i> , <b>2018</b> , 34, 04018032	1.7	13
104	Monitoring Excavation Slope Stability Using Drones <b>2018</b> ,		2
103	Distributed and interoperable simulation for comprehensive disaster response management in facilities. <i>Automation in Construction</i> , <b>2018</b> , 93, 12-21	4	9
102	An integrated ergonomics framework for evaluation and design of construction operations. <i>Automation in Construction</i> , <b>2018</b> , 95, 72-85	4	15
101	EEG Signal-Processing Framework to Obtain High-Quality Brain Waves from an Off-the-Shelf Wearable EEG Device. <i>Journal of Computing in Civil Engineering</i> , <b>2018</b> , 32, 04017070	2.5	64
100	An Empirically Based Agent-Based Model of the Sociocognitive Process of Construction Workers' Safety Behavior. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2018</b> , 144, 04017102	1.5	30
99	Feasibility Study of a Wristband-Type Wearable Sensor to Understand Construction Workers' Physical and Mental Status <b>2018</b> ,		20
98	A Supervised Learning-Based Construction Workers' Stress Recognition Using a Wearable Electroencephalography (EEG) Device <b>2018</b> ,		19
97	Wearable Insole Pressure Sensors for Automated Detection and Classification of Slip-Trip-Loss of Balance Events in Construction Workers <b>2018</b> ,		4
96	Enhancing perceived safety in human-robot collaborative construction using immersive virtual environments. <i>Automation in Construction</i> , <b>2018</b> , 96, 161-170	4	48
95	Effect of Dynamic Emergency Cues on Fire Evacuation Performance in Public Buildings. <i>Journal of Infrastructure Systems</i> , <b>2018</b> , 24, 04018029	1.1	5
94	EEG-based workers' stress recognition at construction sites. <i>Automation in Construction</i> , <b>2018</b> , 93, 315-324	4	119
93	Development of a computerized risk management system for international NPP EPC projects. <i>KSCE Journal of Civil Engineering</i> , <b>2017</b> , 21, 11-26	0.7	7
92	Construction Workers' Group Norms and Personal Standards Regarding Safety Behavior: Social Identity Theory Perspective. <i>Journal of Management in Engineering - ASCE</i> , <b>2017</b> , 33, 04017001	1.7	47
91	Longitudinal analysis of normative energy use feedback on dormitory occupants. <i>Applied Energy</i> , <b>2017</b> , 189, 623-639	4.8	49
90	Experience, Productivity, and Musculoskeletal Injury among Masonry Workers. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2017</b> , 143, 05017003	1.5	27
89	Modeling the Effect of a Socio-Psychological Process on Construction Workers' Safety Behavior <b>2017</b> ,		3

88	Feasibility of Field Measurement of Construction Workers' Valence Using a Wearable EEG Device <b>2017</b> ,		20
87	Predicting hourly energy consumption in buildings using occupancy-related characteristics of end-user groups. <i>Energy and Buildings</i> , <b>2017</b> , 156, 121-133	2.8	30
86	Potential of Convolutional Neural Network-Based 2D Human Pose Estimation for On-Site Activity Analysis of Construction Workers <b>2017</b> ,		6
85	What drives construction workers' acceptance of wearable technologies in the workplace?: Indoor localization and wearable health devices for occupational safety and health. <i>Automation in Construction</i> , <b>2017</b> , 84, 31-41	4	96
84	Wristband-type wearable health devices to measure construction workers' physical demands. <i>Automation in Construction</i> , <b>2017</b> , 83, 330-340	4	60
83	Role of Social Norms and Social Identifications in Safety Behavior of Construction Workers. II: Group Analyses for the Effects of Cultural Backgrounds and Organizational Structures on Social Influence Process. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2017</b> , 143, 04016125	1.5	8
82	Role of Social Norms and Social Identifications in Safety Behavior of Construction Workers. I: Theoretical Model of Safety Behavior under Social Influence. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2017</b> , 143, 04016124	1.5	36
81	Exploratory Study on the Effectiveness of Interface-Management Practices in Dealing with Project Complexity in Large-Scale Engineering and Construction Projects. <i>Journal of Management in Engineering - ASCE</i> , <b>2017</b> , 33, 04016039	1.7	35
80	Discussion Panel on Computer Vision and Occupational Ergonomics. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2016</b> , 60, 958-960	0.1	3
79	High Level Architecture (HLA) compliant distributed simulation platform for disaster preparedness and response in facility management <b>2016</b> ,		2
78	Understanding the Role of Dynamic Risk Perception during Fire Evacuations Using Agent-Based Modeling <b>2016</b> ,		1
77	Visualization, Information Modeling, and Simulation: Grand Challenges in the Construction Industry. <i>Journal of Computing in Civil Engineering</i> , <b>2016</b> , 30, 04016035	2.5	72
76	Simulation-Based Assessment of Workers' Muscle Fatigue and Its Impact on Construction Operations. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2016</b> , 142, 04016063	1.5	36
75	Hybrid Simulation Framework for Immediate Facility Restoration Planning after a Catastrophic Disaster. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2016</b> , 142, 04016026	1.5	25
74	Automated Postural Ergonomic Assessment Using a Computer Vision-Based Posture Classification <b>2016</b> ,		10
73	Action Recognition Using a Wristband-Type Activity Tracker: Case Study of Masonry Work <b>2016</b> ,		7
72	How Social Norms Influence Construction Workers' Safety Behavior: A Social Identity Perspective <b>2016</b> ,		5
71	An empirically grounded model for simulating normative energy use feedback interventions. <i>Applied Energy</i> , <b>2016</b> , 173, 272-282	4.8	21

70	Feasibility analysis of heart rate monitoring of construction workers using a photoplethysmography (PPG) sensor embedded in a wristband-type activity tracker. <i>Automation in Construction</i> , <b>2016</b> , 71, 372-381	4	59
69	Tracking-based 3D human skeleton extraction from stereo video camera toward an on-site safety and ergonomic analysis. <i>Construction Innovation</i> , <b>2016</b> , 16, 348-367	1.2	35
68	Silhouette-Based On-Site Human Action Recognition in Single-View Video <b>2016</b> ,		4
67	Challenges and Opportunities of Understanding Construction Workers' Physical Demands through Field Energy Expenditure Measurements Using a Wearable Activity Tracker <b>2016</b> ,		4
66	Postdisaster Interdependent Built Environment Recovery Efforts and the Effects of Governmental Plans: Case Analysis Using System Dynamics. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2015</b> , 141, 04014081	1.5	21
65	An Automated Biomechanical Simulation Approach to Ergonomic Job Analysis for Workplace Design. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2015</b> , 141, 04015020	1.5	48
64	Energy consumption in households while unoccupied: Evidence from dormitories. <i>Energy and Buildings</i> , <b>2015</b> , 87, 335-341	2.8	19
63	Application of Low-Cost Accelerometers for Measuring the Operational Efficiency of a Construction Equipment Fleet. <i>Journal of Computing in Civil Engineering</i> , <b>2015</b> , 29, 04014042	2.5	29
62	Motion Data-Driven Biomechanical Analysis during Construction Tasks on Sites. <i>Journal of Computing in Civil Engineering</i> , <b>2015</b> , 29,	2.5	50
61	Longitudinal Analysis of Normative Energy Use Feedback on Dormitory Occupants. <i>SSRN Electronic Journal</i> , <b>2015</b> ,	0.9	1
60	Computer vision techniques for construction safety and health monitoring. <i>Advanced Engineering Informatics</i> , <b>2015</b> , 29, 239-251	3.4	230
59	Methodology for Creating Empirically Supported Agent-Based Simulation with Survey Data for Studying Group Behavior of Construction Workers. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2015</b> , 141, 04014065	1.5	15
58	Toward an understanding of the impact of production pressure on safety performance in construction operations. <i>Accident Analysis and Prevention</i> , <b>2014</b> , 68, 106-16	1.8	107
57	A Real Option Perspective to Value the Multi-Stage Construction of Rainwater Harvesting Systems Reusing Septic Tank. <i>Water Resources Management</i> , <b>2014</b> , 28, 2279-2291	1.5	6
56	A Stereo Vision-Based Approach to Marker-Less Motion Capture for On-Site Kinematic Modeling of Construction Worker Tasks <b>2014</b> ,		9
55	Construction Workers' Perceptions and Attitudes toward Social Norms as Predictors of Their Absence Behavior. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2014</b> , 140, 04013069	1.5	22
54	Impact of Social Network Type and Structure on Modeling Normative Energy Use Behavior Interventions. <i>Journal of Computing in Civil Engineering</i> , <b>2014</b> , 28, 30-39	2.5	41
53	Conceptual Framework to Optimize Building Energy Consumption by Coupling Distributed Energy Simulation and Occupancy Models. <i>Journal of Computing in Civil Engineering</i> , <b>2014</b> , 28, 50-62	2.5	22

52	Comparative Study of Motion Features for Similarity-Based Modeling and Classification of Unsafe Actions in Construction. <i>Journal of Computing in Civil Engineering</i> , <b>2014</b> , 28,	2.5	38
51	Dynamic Project Management: An Application of System Dynamics in Construction Engineering and Management. <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , <b>2014</b> , 219-231	0.2	3
50	Enhancing the Credibility of Agent-Based Model for the Study of Workers' Group Behavior by Comparing Simulation Data with Survey Data <b>2014</b> ,		1
49	Integrated Framework for Estimating, Benchmarking, and Monitoring Pollutant Emissions of Construction Operations. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2013</b> , 139,	1.5	20
48	Empirical assessment of a RGB-D sensor on motion capture and action recognition for construction worker monitoring. <i>Visualization in Engineering</i> , <b>2013</b> , 1, 6	3	47
47	Effects of Workers' Social Learning: Focusing on Absence Behavior. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2013</b> , 139, 1015-1025	1.5	29
46	Generating construction schedules through automatic data extraction using open BIM (building information modeling) technology. <i>Automation in Construction</i> , <b>2013</b> , 35, 285-295	4	103
45	A vision-based motion capture and recognition framework for behavior-based safety management. <i>Automation in Construction</i> , <b>2013</b> , 35, 131-141	4	186
44	Dynamic Feasibility Analysis of the Housing Supply Strategies in a Recession: Korean Housing Market. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2013</b> , 139, 148-160	1.5	5
43	Grand Challenges in Simulation for the Architecture, Engineering, Construction, and Facility Management Industries <b>2013</b> ,		9
42	Accelerometer-Based Measurement of Construction Equipment Operating Efficiency for Monitoring Environmental Performance <b>2013</b> ,		11
41	Vision-Based Detection of Unsafe Actions of a Construction Worker: Case Study of Ladder Climbing. <i>Journal of Computing in Civil Engineering</i> , <b>2013</b> , 27, 635-644	2.5	89
40	Importance of Operational Efficiency to Achieve Energy Efficiency and Exhaust Emission Reduction of Construction Operations. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2013</b> , 139, 404-413	1.5	37
39	Modeling occupant energy use interventions in evolving social networks <b>2013</b> ,		3
38	Integrated evaluation of cost, schedule and emission performance on rock-filled concrete dam construction operation using discrete event simulation <b>2013</b> ,		1
37	<b>2013</b> ,		2
36	Consideration of the Environmental Cost in Construction Contracting for Public Works: A+C and A+B+C Bidding Methods. <i>Journal of Management in Engineering - ASCE</i> , <b>2013</b> , 29, 86-94	1.7	13
35	Vision-Based Motion Detection for Safety Behavior Analysis in Construction <b>2012</b> ,		12

34	Applying Basic Control Theory Principles to Project Control: Case Study of Off-Site Construction Shops. <i>Journal of Computing in Civil Engineering</i> , <b>2012</b> , 26, 681-690	2.5	7
33	RFID-Based Real-Time Locating System for Construction Safety Management. <i>Journal of Computing in Civil Engineering</i> , <b>2012</b> , 26, 366-377	2.5	117
32	Exploring Absenteeism Control Policies with Awareness of the Effect of Group Norms on Absence Behavior, Using Agent-Based Modeling <b>2012</b> ,		2
31	Dynamics of Working Hours in Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2012</b> , 138, 66-77	1.5	28
30	Effect of social network type on building occupant energy use <b>2012</b> ,		8
29	Dynamics of workforce skill evolution in construction projects <sup>1</sup> This paper is one of a selection of papers in this Special Issue on Construction Engineering and Management.. <i>Canadian Journal of Civil Engineering</i> , <b>2012</b> , 39, 1005-1017	0.4	15
28	Identification and Quantification of Non-Value-Adding Effort from Errors and Changes in Design and Construction Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2012</b> , 138, 98-109 <sup>1.5</sup>	1.5	38
27	Off-Site Construction Planning Using Discrete Event Simulation. <i>Journal of Architectural Engineering</i> , <b>2012</b> , 18, 114-122	0.5	30
26	Monitoring System for Operational Efficiency and Environmental Performance of Construction Operations Using Vibration Signal Analysis <b>2012</b> ,		13
25	Development of model of workers' mental processes related to absence norm as behavior rule in agent-based simulation <b>2011</b> ,		1
24	Application of Dimension Reduction Techniques for Motion Recognition: Construction Worker Behavior Monitoring <b>2011</b> ,		12
23	Modeling Framework and Architecture of Hybrid System Dynamics and Discrete Event Simulation for Construction. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2011</b> , 26, 77-91	3.1	59
22	Understanding construction workforce absenteeism in industrial construction. <i>Canadian Journal of Civil Engineering</i> , <b>2011</b> , 38, 849-858	0.4	8
21	A framework for an automated and integrated project monitoring and control system for steel fabrication projects. <i>Automation in Construction</i> , <b>2011</b> , 20, 88-97	4	41
20	<b>2011</b> ,		4
19	Computer Vision Techniques for Worker Motion Analysis to Reduce Musculoskeletal Disorders in Construction <b>2011</b> ,		10
18	Toward Environmentally Sustainable Construction Processes: The U.S. and Canada's Perspective on Energy Consumption and GHG/CAP Emissions. <i>Sustainability</i> , <b>2010</b> , 2, 354-370	1.4	29
17	Exploring the Effects of Context Level Factors on the Structural Steel Fabrication Shop Operation <b>2010</b> ,		1



16	<b>2010,</b>			5
15	Carbon Footprints Analysis for Tunnel Construction Processes in the Preplanning Phase Using Collaborative Simulation <b>2010,</b>			10
14	Resource Performance Indicators in Controlling Industrial Steel Projects <b>2010,</b>			1
13	Understanding Withdrawal Behavior in the Construction Industry <b>2010,</b>			1
12	System Dynamics Modeling of a Safety Culture Based on Resilience Engineering <b>2010,</b>			4
11	Meaningful Level of Change in hybrid simulation for construction analysis <b>2009,</b>			1
10	Visualization of Construction Progress Monitoring with 4D Simulation Model Overlaid on Time-Lapsed Photographs. <i>Journal of Computing in Civil Engineering</i> , <b>2009</b> , 23, 391-404	2.5		158
9	Integrating Construction Operation and Context in Large-Scale Construction Using Hybrid Computer Simulation. <i>Journal of Computing in Civil Engineering</i> , <b>2009</b> , 23, 75-83	2.5		31
8	Strategic-Operational Construction Management: Hybrid System Dynamics and Discrete Event Approach. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2008</b> , 134, 701-710	1.5		69
7	Hybrid System Dynamics and Discrete Event Simulation for Construction Management <b>2007,</b>			12
6	Understanding and managing iterative error and change cycles in construction. <i>System Dynamics Review</i> , <b>2007</b> , 23, 35-60	1.6		27
5	Modeling and representation of non-value adding activities due to errors and changes in design and construction projects <b>2007,</b>			1
4	Reliability and Stability Buffering Approach: Focusing on the Issues of Errors and Changes in Concurrent Design and Construction Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2006</b> , 132, 452-464	1.5		36
3	Web-Enabled System Dynamics Model for Error and Change Management on Concurrent Design and Construction Projects. <i>Journal of Computing in Civil Engineering</i> , <b>2006</b> , 20, 290-300	2.5		26
2	Quality and Change Management Model for Large Scale Concurrent Design and Construction Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2005</b> , 131, 890-902	1.5		68
1	Quality and Change Management Framework for Concurrent Design and Construction <b>2003, 1</b>			5