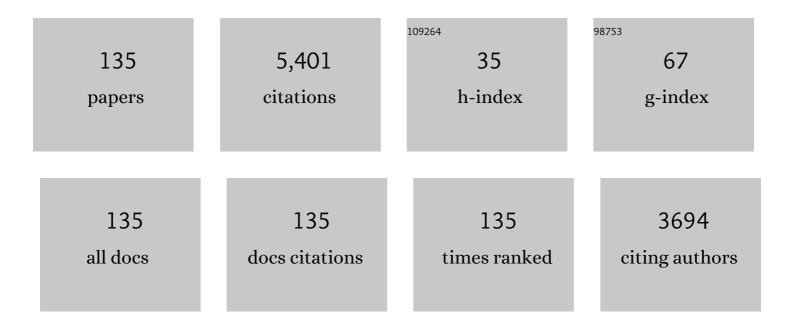
Min-Yuan Cheng

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Symbiotic Organisms Search: A new metaheuristic optimization algorithm. Computers and Structures, 2014, 139, 98-112.	2.4	1,200
2	Accurately predicting building energy performance using evolutionary multivariate adaptive regression splines. Applied Soft Computing Journal, 2014, 22, 178-188.	4.1	159
3	BIM integrated smart monitoring technique for building fire prevention and disaster relief. Automation in Construction, 2017, 84, 14-30.	4.8	138
4	A novel Multiple Objective Symbiotic Organisms Search (MOSOS) for time–cost–labor utilization tradeoff problem. Knowledge-Based Systems, 2016, 94, 132-145.	4.0	128
5	A Hybrid Harmony Search algorithm for discrete sizing optimization of truss structure. Automation in Construction, 2016, 69, 21-33.	4.8	119
6	High-performance Concrete Compressive Strength Prediction using Time-Weighted Evolutionary Fuzzy Support Vector Machines Inference Model. Automation in Construction, 2012, 28, 106-115.	4.8	111
7	Text mining-based construction site accident classification using hybrid supervised machine learning. Automation in Construction, 2020, 118, 103265.	4.8	102
8	Conceptual cost estimates using evolutionary fuzzy hybrid neural network for projects in construction industry. Expert Systems With Applications, 2010, 37, 4224-4231.	4.4	97
9	High-performance concrete compressive strength prediction using Genetic Weighted Pyramid Operation Tree (GWPOT). Engineering Applications of Artificial Intelligence, 2014, 29, 104-113.	4.3	90
10	Integrating barcode and GIS for monitoring construction progress. Automation in Construction, 2002, 11, 23-33.	4.8	87
11	Web-based conceptual cost estimates for construction projects using Evolutionary Fuzzy Neural Inference Model. Automation in Construction, 2009, 18, 164-172.	4.8	84
12	Optimizing Multiple-Resources Leveling in Multiple Projects Using Discrete Symbiotic Organisms Search. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	81
13	A hybrid swarm intelligence based particle-bee algorithm for construction site layout optimization. Expert Systems With Applications, 2012, 39, 9642-9650.	4.4	78
14	Particle bee algorithm for tower crane layout with material quantity supply and demand optimization. Automation in Construction, 2014, 45, 25-32.	4.8	75
15	Evolutionary fuzzy decision model for cash flow prediction using time-dependent support vector machines. International Journal of Project Management, 2011, 29, 56-65.	2.7	72
16	Using a fuzzy clustering chaotic-based differential evolution with serial method to solve resource-constrained project scheduling problems. Automation in Construction, 2014, 37, 88-97.	4.8	69
17	Optimizing parameters of support vector machine using fast messy genetic algorithm for dispute classification. Expert Systems With Applications, 2014, 41, 3955-3964.	4.4	67
18	Hybrid multiple objective artificial bee colony with differential evolution for the time–cost–quality tradeoff problem. Knowledge-Based Systems, 2015, 74, 176-186.	4.0	66

#	Article	IF	CITATIONS
19	Novel Genetic Algorithm-Based Evolutionary Support Vector Machine for Optimizing High-Performance Concrete Mixture. Journal of Computing in Civil Engineering, 2014, 28, .	2.5	63
20	Evolutionary support vector machine inference system for construction management. Automation in Construction, 2009, 18, 597-604.	4.8	59
21	Estimate at Completion for construction projects using Evolutionary Support Vector Machine Inference Model. Automation in Construction, 2010, 19, 619-629.	4.8	58
22	Hybrid intelligence approach based on LS-SVM and Differential Evolution for construction cost index estimation: A Taiwan case study. Automation in Construction, 2013, 35, 306-313.	4.8	55
23	Artificial intelligence approaches to achieve strategic control over project cash flows. Automation in Construction, 2009, 18, 386-393.	4.8	54
24	GIS-Based Cost Estimates Integrating with Material Layout Planning. Journal of Construction Engineering and Management - ASCE, 2001, 127, 291-299.	2.0	53
25	Hybrid Artificial Intelligence–Based PBA for Benchmark Functions and Facility Layout Design Optimization. Journal of Computing in Civil Engineering, 2012, 26, 612-624.	2.5	53
26	Evolutionary multivariate adaptive regression splines for estimating shear strength in reinforced-concrete deep beams. Engineering Applications of Artificial Intelligence, 2014, 28, 86-96.	4.3	52
27	Two-Phase Differential Evolution for the Multiobjective Optimization of Time–Cost Tradeoffs in Resource-Constrained Construction Projects. IEEE Transactions on Engineering Management, 2014, 61, 450-461.	2.4	48
28	Prediction of permanent deformation in asphalt pavements using a novel symbiotic organisms search–least squares support vector regression. Neural Computing and Applications, 2019, 31, 6261-6273.	3.2	45
29	Fuzzy case-based reasoning for coping with construction disputes. Expert Systems With Applications, 2009, 36, 4106-4113.	4.4	44
30	A novel fuzzy adaptive teaching–learning-based optimization (FATLBO) for solving structural optimization problems. Engineering With Computers, 2017, 33, 55-69.	3.5	44
31	Dynamic Prediction of Project Success Using Artificial Intelligence. Journal of Construction Engineering and Management - ASCE, 2007, 133, 316-324.	2.0	42
32	Improving classification accuracy of project dispute resolution using hybrid artificial intelligence and support vector machine models. Expert Systems With Applications, 2013, 40, 2263-2274.	4.4	39
33	Experimental study of reinforced concrete and hybrid coupled shear wall systems. Engineering Structures, 2015, 82, 214-225.	2.6	39
34	Evolutionary fuzzy decision model for construction management using support vector machine. Expert Systems With Applications, 2010, 37, 6061-6069.	4.4	38
35	Slope Collapse Prediction Using Bayesian Framework with K-Nearest Neighbor Density Estimation: Case Study in Taiwan. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	38
36	PREDICTING PRODUCTIVITY LOSS CAUSED BY CHANGE ORDERS USING THE EVOLUTIONARY FUZZY SUPPORT VECTOR MACHINE INFERENCE MODEL. Journal of Civil Engineering and Management, 2015, 21, 881-892.	1.9	37

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37	Evaluating sub-contractors performance using EFNIM. Automation in Construction, 2007, 16, 525-530.	4.8	36
38	Automating utility route design and planning through GIS. Automation in Construction, 2001, 10, 507-516.	4.8	35
39	Computer-aided DSS for safety monitoring of geotechnical construction. Automation in Construction, 2002, 11, 375-390.	4.8	35
40	Evolutionary Fuzzy Neural Inference System for Decision Making in Geotechnical Engineering. Journal of Computing in Civil Engineering, 2008, 22, 272-280.	2.5	35
41	Differential Big Bang - Big Crunch algorithm for construction-engineering design optimization. Automation in Construction, 2018, 85, 290-304.	4.8	35
42	Project success prediction using an evolutionary support vector machine inference model. Automation in Construction, 2010, 19, 302-307.	4.8	34
43	INTERVAL ESTIMATION OF CONSTRUCTION COST AT COMPLETION USING LEAST SQUARES SUPPORT VECTOR MACHINE. Journal of Civil Engineering and Management, 2014, 20, 223-236.	1.9	34
44	Typhoon-induced slope collapse assessment using a novel bee colony optimized support vector classifier. Natural Hazards, 2015, 78, 1961-1978.	1.6	33
45	Optimization model for construction project resource leveling using a novel modified symbiotic organisms search. Asian Journal of Civil Engineering, 2018, 19, 625-638.	0.8	33
46	A novel time-depended evolutionary fuzzy SVM inference model for estimating construction project at completion. Engineering Applications of Artificial Intelligence, 2012, 25, 744-752.	4.3	32
47	Risk Score Inference for Bridge Maintenance Project Using Evolutionary Fuzzy Least Squares Support Vector Machine. Journal of Computing in Civil Engineering, 2014, 28, .	2.5	32
48	Evaluating Contractor Financial Status Using a Hybrid Fuzzy Instance Based Classifier: Case Study in the Construction Industry. IEEE Transactions on Engineering Management, 2015, 62, 184-192.	2.4	32
49	Dynamic construction material layout planning optimization model by integrating 4D BIM. Engineering With Computers, 2019, 35, 703-720.	3.5	32
50	SIMULATION-ENHANCED APPROACH FOR RANKING MAJOR TRANSPORT PROJECTS. Journal of Civil Engineering and Management, 2006, 12, 285-291.	1.9	32
51	Novel Approach to Estimating Schedule to Completion in Construction Projects Using Sequence and Nonsequence Learning. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	31
52	Combining machine learning models via adaptive ensemble weighting for prediction of shear capacity of reinforced-concrete deep beams. Engineering With Computers, 2020, 36, 1135.	3.5	31
53	Hybrid use of AI techniques in developing construction management tools. Automation in Construction, 2003, 12, 271-281.	4.8	30
54	A Swarm-Optimized Fuzzy Instance-based Learning approach for predicting slope collapses in mountain roads. Knowledge-Based Systems, 2015, 76, 256-263.	4.0	30

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55	Object-Oriented Evolutionary Fuzzy Neural Inference System for Construction Management. Journal of Construction Engineering and Management - ASCE, 2003, 129, 461-469.	2.0	29
56	Construction management process reengineering: Organizational human resource planning for multiple projects. Automation in Construction, 2006, 15, 785-799.	4.8	29
57	Evolutionary risk preference inference model using fuzzy support vector machine for road slope collapse prediction. Expert Systems With Applications, 2012, 39, 1737-1746.	4.4	29
58	A hybrid fuzzy inference model based on RBFNN and artificial bee colony for predicting the uplift capacity of suction caissons. Automation in Construction, 2014, 41, 60-69.	4.8	28
59	Hybrid Computational Model for Forecasting Taiwan Construction Cost Index. Journal of Construction Engineering and Management - ASCE, 2015, 141, .	2.0	28
60	Evolutionary fuzzy hybrid neural network for project cash flow control. Engineering Applications of Artificial Intelligence, 2010, 23, 604-613.	4.3	27
61	Evolutionary fuzzy hybrid neural network for dynamic project success assessment in construction industry. Automation in Construction, 2012, 21, 46-51.	4.8	27
62	Optimal Project Organizational Structure for Construction Management. Journal of Construction Engineering and Management - ASCE, 2003, 129, 70-79.	2.0	26
63	Supporting international entry decisions for construction firms using fuzzy preference relations and cumulative prospect theory. Expert Systems With Applications, 2011, 38, 15151-15158.	4.4	25
64	Evaluating subcontractor performance using evolutionary fuzzy hybrid neural network. International Journal of Project Management, 2011, 29, 349-356.	2.7	25
65	K-means particle swarm optimization with embedded chaotic search for solving multidimensional problems. Applied Mathematics and Computation, 2012, 219, 3091-3099.	1.4	25
66	ESTIMATING STRENGTH OF RUBBERIZED CONCRETE USING EVOLUTIONARY MULTIVARIATE ADAPTIVE REGRESSION SPLINES. Journal of Civil Engineering and Management, 2016, 22, 711-720.	1.9	25
67	Emergency shelter capacity estimation by earthquake damage analysis. Natural Hazards, 2013, 65, 2031-2061.	1.6	24
68	A novel hybrid intelligent approach for contractor default status prediction. Knowledge-Based Systems, 2014, 71, 314-321.	4.0	23
69	Optimizing mixture properties of biodiesel production using genetic algorithm-based evolutionary support vector machine. International Journal of Green Energy, 2016, 13, 1599-1607.	2.1	23
70	Fuzzy Bayesian schedule risk network for offshore wind turbine installation. Ocean Engineering, 2019, 188, 106238.	1.9	23
71	Fuzzy adaptive teaching–learning-based optimization for global numerical optimization. Neural Computing and Applications, 2018, 29, 309-327.	3.2	22
72	Groutability Estimation of Grouting Processes with Microfine Cements Using an Evolutionary Instance-Based Learning Approach. Journal of Computing in Civil Engineering, 2014, 28, 04014014.	2.5	21

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73	Dynamic feature selection for accurately predicting construction productivity using symbiotic organisms search-optimized least square support vector machine. Journal of Building Engineering, 2021, 35, 101973.	1.6	21
74	Reengineering of Construction Management Process. Journal of Construction Engineering and Management - ASCE, 2003, 129, 105-114.	2.0	20
75	GROUTABILITY PREDICTION OF MICROFINE CEMENT BASED SOIL IMPROVEMENT USING EVOLUTIONARY LS-SVM INFERENCE MODEL. Journal of Civil Engineering and Management, 2014, 20, 839-848.	1.9	20
76	An efficient hybrid differential evolution based serial method for multimode resource-constrained project scheduling. KSCE Journal of Civil Engineering, 2016, 20, 90-100.	0.9	20
77	Solving Resource-Constrained Project Scheduling Problems Using Hybrid Artificial Bee Colony with Differential Evolution. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	19
78	Site layout of construction temporary facilities using an enhanced-geographic information system (GIS). Automation in Construction, 1994, 3, 11-19.	4.8	18
79	A hybrid Al-based particle bee algorithm for facility layout optimization. Engineering With Computers, 2012, 28, 57-69.	3.5	18
80	Opposition-Based Multiple-Objective Differential Evolution to Solve the Time–Cost–Environment Impact Trade-Off Problem in Construction Projects. Journal of Computing in Civil Engineering, 2015, 29, .	2.5	18
81	Predicting high-tech equipment fabrication cost with a novel evolutionary SVM inference model. Expert Systems With Applications, 2011, 38, 8571-8579.	4.4	17
82	Seismic assessment of school buildings in Taiwan using the evolutionary support vector machine inference system. Expert Systems With Applications, 2012, 39, 4102-4110.	4.4	17
83	Opposition-based Multiple Objective Differential Evolution (OMODE) for optimizing work shift schedules. Automation in Construction, 2015, 55, 1-14.	4.8	17
84	Estimating construction duration of diaphragm wall using firefly-tuned least squares support vector machine. Neural Computing and Applications, 2018, 30, 2489-2497.	3.2	17
85	Integrated fuzzy preference relations with decision utilities for construction contractor selection. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2012, 35, 1051-1063.	0.6	16
86	Construction management process reengineering performance measurements. Automation in Construction, 2009, 18, 183-193.	4.8	15
87	CASH FLOW PREDICTION FOR CONSTRUCTION PROJECT USING A NOVEL ADAPTIVE TIME-DEPENDENT LEAST SQUARES SUPPORT VECTOR MACHINE INFERENCE MODEL. Journal of Civil Engineering and Management, 2015, 21, 679-688.	1.9	15
88	Economic and energy consumption analysis of smart building – MEGA house. Building and Environment, 2016, 100, 215-226.	3.0	15
89	Construction Schedule Risk Assessment and Management Strategy for Foreign General Contractors Working in the Ethiopian Construction Industry. Sustainability, 2021, 13, 7830.	1.6	15
90	GIS-BASED RESTORATION SYSTEM FOR HISTORIC TIMBER BUILDINGS USING RFID TECHNOLOGY/GIS PAREMTA ISTORINIŲ RĄSTINIŲ PASTATŲ RESTAURAVIMO SISTEMA TAIKANT RFID TECHNOLOGIJĄ. Journal of Civil Engi and Management, 2008, 14, 227-234.	neering	14

#	Article	IF	CITATIONS
91	A novel groutability estimation model for ground improvement projects in sandy silt soil based on Bayesian framework. Tunnelling and Underground Space Technology, 2014, 43, 453-458.	3.0	14
92	Hybrid intelligent inference model for enhancing prediction accuracy of scour depth around bridge piers. Structure and Infrastructure Engineering, 2015, 11, 1178-1189.	2.0	14
93	FUZZY CLUSTERING CHAOTIC-BASED DIFFERENTIAL EVOLUTION FOR RESOURCE LEVELING IN CONSTRUCTION PROJECTS. Journal of Civil Engineering and Management, 2016, 23, 113-124.	1.9	14
94	Symbiotic organisms search-optimized deep learning technique for mapping construction cash flow considering complexity of project. Chaos, Solitons and Fractals, 2020, 138, 109869.	2.5	14
95	A genetic-fuzzy-neuro model encodes FNNs using SWRM and BRM. Engineering Applications of Artificial Intelligence, 2006, 19, 891-903.	4.3	13
96	Risk Preference Based Support Vector Machine Inference Model for Slope Collapse Prediction. Automation in Construction, 2012, 22, 175-181.	4.8	13
97	A self-tuning least squares support vector machine for estimating the pavement rutting behavior of asphalt mixtures. Soft Computing, 2019, 23, 7755-7768.	2.1	13
98	Computer-aided decision support system for hillside safety monitoring. Automation in Construction, 2002, 11, 453-466.	4.8	12
99	Cross-organization process integration in design–build team. Automation in Construction, 2008, 17, 151-162.	4.8	12
100	Multi-agent-based data exchange platform for bridge disaster prevention: a case study in Taiwan. Natural Hazards, 2013, 69, 311-326.	1.6	12
101	Risk-based maintenance strategy for deteriorating bridges using a hybrid computational intelligence technique: a case study. Structure and Infrastructure Engineering, 2019, 15, 334-350.	2.0	12
102	Automated Safety Monitoring and Diagnosis System for Unstable Slopes. Computer-Aided Civil and Infrastructure Engineering, 2003, 18, 64-77.	6.3	11
103	Benchmarking-based process reengineering for construction management. Automation in Construction, 2009, 18, 605-623.	4.8	11
104	Dynamic guiding particle swarm optimization with embedded chaotic search for solving multidimensional problems. Optimization Letters, 2012, 6, 719-729.	0.9	11
105	KM-oriented business process reengineering for construction firms. Automation in Construction, 2012, 21, 32-45.	4.8	11
106	A Self-Adaptive Fuzzy Inference Model Based on Least Squares SVM for Estimating Compressive Strength of Rubberized Concrete. International Journal of Information Technology and Decision Making, 2016, 15, 603-619.	2.3	10
107	Automated mobile vibration measurement and signal analysis for bridge scour prevention and warning. Automation in Construction, 2022, 134, 104063.	4.8	10
108	Identifying deflections of reinforced concrete beams under seismic loads by bioâ€inspired optimization of deep residual learning. Structural Control and Health Monitoring, 2022, 29, .	1.9	10

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109	Decision making for contractor insurance deductible using the evolutionary support vector machines inference model. Expert Systems With Applications, 2011, 38, 6547-6555.	4.4	9
110	Identification and assessment of heavy rainfall–induced disaster potentials in Taipei City. Natural Hazards, 2013, 66, 167-190.	1.6	9
111	PREDICTING PROJECT SUCCESS IN CONSTRUCTION USING AN EVOLUTIONARY GAUSSIAN PROCESS INFERENCE MODEL. Journal of Civil Engineering and Management, 2014, 19, S202-S211.	1.9	9
112	A Novel Hybrid Metaheuristic Algorithm for Optimization of Construction Management Site Layout Planning. Algorithms, 2020, 13, 117.	1.2	8
113	Hybrid artificial intelligence-based inference models for accurately predicting dam body displacements: A case study of the Fei Tsui dam. Structural Health Monitoring, 2022, 21, 1738-1756.	4.3	8
114	Predicting load on ground anchor using a metaheuristic optimized least squares support vector regression model: a Taiwan case study. Journal of Computational Design and Engineering, 2021, 8, 268-282.	1.5	8
115	Site Layout of Construction Temporary Facilities Using Enhanced-Geographic Information System (GIS). , 1993, , .		8
116	Modeling the Permanent Deformation Behavior of Asphalt Mixtures Using a Novel Hybrid Computational Intelligence. , 2016, , .		8
117	Multi-Criteria Decision Making of Contractor Selection in Mass Rapid Transit Station Development Using Bayesian Fuzzy Prospect Model. Sustainability, 2020, 12, 4606.	1.6	7
118	Auto-tuning SOS Algorithm for Two-Dimensional Orthogonal Cutting Optimization. KSCE Journal of Civil Engineering, 2021, 25, 3605-3619.	0.9	7
119	Seismic Assessment of Bridge Diagnostic in Taiwan Using the Evolutionary Support Vector Machine Inference Model (ESIM). Applied Artificial Intelligence, 2014, 28, 449-469.	2.0	6
120	PRELIMINARY PLANNING EFFICIENCY EVALUATION FOR SCHOOL BUILDINGS CONSIDERING THE TRADEOFFS OF MOOP AND PLANNING PREFERENCES. Journal of Civil Engineering and Management, 2014, 20, 211-222.	1.9	6
121	Preliminary bridge health evaluation using the pier vibration frequency. Construction and Building Materials, 2016, 102, 552-563.	3.2	6
122	ENHANCED TIME-DEPENDENT EVOLUTIONARY FUZZY SUPPORT VECTOR MACHINES INFERENCE MODEL FOR CASH FLOW PREDICTION AND ESTIMATE AT COMPLETION. International Journal of Information Technology and Decision Making, 2013, 12, 679-710.	2.3	5
123	Nature-inspired metaheuristic multivariate adaptive regression splines for predicting refrigeration system performance. Soft Computing, 2017, 21, 477-489.	2.1	5
124	Cyclic Test of Diagonally Reinforced Concrete Coupling Beam with Different Shear Demand. ACI Structural Journal, 2019, 116, .	0.3	5
125	Optimal planning model for school buildings considering the tradeoff of seismic resistance and cost effectiveness: a Taiwan case study. Structural and Multidisciplinary Optimization, 2011, 43, 863-879.	1.7	4
126	Symbiotic polyhedron operation tree (SPOT) for elastic modulus formulation of recycled aggregate concrete. Engineering With Computers, 2020, 37, 3205.	3.5	4

#	Article	IF	CITATIONS
127	Symbiotic organisms search with the feasibility-based rules for constrained engineering design optimization. , 2017, , .		3
128	SOS 2.0: an evolutionary approach for SOS algorithm. Evolutionary Intelligence, 2021, 14, 1965-1983.	2.3	3
129	Design and Maintenance Information Integration for Concrete Bridge Assessment and Disaster Prevention. Journal of Performance of Constructed Facilities, 2021, 35, .	1.0	3
130	OPTIMIZATION OF LIFE-CYCLE COST OF RETROFITTING SCHOOL BUILDINGS UNDER SEISMIC RISK USING EVOLUTIONARY SUPPORT VECTOR MACHINE. Technological and Economic Development of Economy, 2018, 24, 812-824.	2.3	3
131	IMPROVED CONSTRUCTION SUBCONTRACTOR EVALUATION PERFORMANCE USING ESIM. Applied Artificial Intelligence, 2012, 26, 261-273.	2.0	2
132	Investment Evaluation and Partnership Selection Model in the Offshore Wind Power Underwater Foundations Industry. Journal of Marine Science and Engineering, 2021, 9, 1371.	1.2	1
133	Estimate at completion for construction projects Using Evolutionary Gaussian Process Inference Model. , 2011, , .		Ο
134	Matrix Organization Process Reengineering for Construction Firms. Journal of Management in Engineering - ASCE, 2015, 31, 04014093.	2.6	0
135	Hybrid Gaussian Process Inference Model for Construction Management Decision Making. International Journal of Information Technology and Decision Making, 2020, 19, 1015-1036.	2.3	Ο