Mirko Dohnal

List of Publications by Year
in descending order

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88	850	623734	580821
papers	citations	14 h-index	25 g-index

89	89	89	486
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fuzzy confrontations of models of ESG investing versus non-ESG investing based on artificial intelligence algorithms. Journal of Sustainable Finance and Investment, 2023, 13, 763-775.	6.8	4
2	THE COVID-19 DISEASE AND POLICY RESPONSE TO MITIGATE THE ECONOMIC IMPACT IN THE EU. Technological and Economic Development of Economy, 2021, 27, 742-762.	4.6	30
3	A Dynamic Knowledge Model of Project Time-Cost Analysis Based on Trend Modelling. Periodica Polytechnica, Social and Management Sciences, 2020, 28, 18-28.	0.7	1
4	Fine/ultrafine particle air filtration and aerosol loading of hollow-fiber membranes: A comparison of mathematical models for the most penetrating particle size and dimensionless permeability with experimental data. Journal of Membrane Science, 2019, 592, 117393.	8.2	16
5	Trend prey predator model - Analysis of gause model. Global Ecology and Conservation, 2019, 18, e00634.	2.1	1
6	Financial impact analysis of going public at the Warsaw Stock Exchange: Using Fuzzy Set Theory to understand behaviours of mature companies. Management and Marketing, 2019, 14, 59-79.	1.7	0
7	Air filtration performance of symmetric polypropylene hollow-fibre membranes for nanoparticle removal. Separation and Purification Technology, 2018, 197, 122-128.	7.9	25
8	Qualitative equationless macroeconomic models as generators of all possible forecasts based on three trend valuesâ€"Increasing, constant, decreasing. Structural Change and Economic Dynamics, 2018, 45, 30-36.	4.5	4
9	Aerosol filtration using hollow-fiber membranes: Effect of permeate velocity and dust amount on separation of submicron TiO2 particles. Powder Technology, 2018, 340, 344-353.	4.2	11
10	Analysis of Sustainability Decision Trees Generated by Qualitative Models Based on Equationless Heuristics. Sustainability, 2018, 10, 2505.	3.2	1
11	THE TIMING OF INITIAL PUBLIC OFFERINGS â€“ NON-NUMERICAL MODEL BASED ON QUALITATIVE TRENDS. Journal of Business Economics and Management, 2018, 19, 63-79.	2.4	18
12	Evaluations of corporate sustainability indicators based on fuzzy similarity graphs. Ecological Indicators, 2017, 78, 108-114.	6.3	25
13	RUMOURS RELATED TO POLITICAL INSTABILITY AND THEIR IMPACT ON IPOs. THE USE OF QUALITATIVE MODELLING WITH INCOMPLETE KNOWLEDGE. Polish Journal of Management Studies, 2017, 16, 171-187.	0.9	9
14	Equationless and equation-based trend models of prohibitively complex technological and related forecasts. Technological Forecasting and Social Change, 2016, 111, 297-304.	11.6	6
15	Complex biofuels related scenarios generated by qualitative reasoning under severe information shortages: A review. Renewable and Sustainable Energy Reviews, 2016, 65, 676-684.	16.4	5
16	Qualitative models of complex sustainability systems using integrations of equations and equationless knowledge items generated by several experts. Ecological Indicators, 2016, 62, 201-211.	6.3	5
17	Predicting recycling behaviour: Comparison of a linear regression model and a fuzzy logic model. Waste Management, 2016, 49, 530-536.	7.4	30
18	Formalized qualitative modeling of online trust: introduction of the method and a detailed example. E A M: Ekonomie A Management, 2016, 19, 201-213.	1.0	4

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19	SUSTAINABILITY PROJECT: RISK ANALYSIS BASED ON DECISION TREES UNDER CONDITIONS OF TOTAL AND PARTIAL IGNORANCE. Journal of Security and Sustainability Issues, 2016, 5, 391-402.	0.4	1
20	Reconciliation as a tool for decision making within decision tree related to insolvency problems. Trendy Ekonomiky A Managementu, 2016, 10, 33.	0.2	0
21	Qualitative Upper and Lower Approximations of Complex Nonlinear Chaotic and Nonchaotic Models. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550173.	1.7	2
22	Reconciliation of Decision-Making Heuristics Based on Decision Trees Topologies and Incomplete Fuzzy Probabilities Sets. PLoS ONE, 2015, 10, e0131590.	2.5	6
23	Environmental Consequences of Wildlife Tourism: The Use of Formalised Qualitative Models. Ekologia, 2015, 34, 260-267.	0.8	2
24	Decision-making on Implementation of IPO Under Topological Uncertainty. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2015, 63, 193-200.	0.4	1
25	Qualitative decision-making model of investment into start-up companies. International Journal of Technology Intelligence and Planning, 2013, 9, 165.	0.3	1
26	Fuzzy model of relationship among economic performance, competitiveness and business ethics of small and medium-sized enterprises. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2013, 60, 71-78.	0.4	4
27	Decision making in goverment tenders: A formalized qualitative model. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2013, 60, 397-406.	0.4	1
28	Selection of scenarios in qualitative models: The case of a government tenders model. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2013, 61, 2923-2929.	0.4	0
29	Equationless qualitative models of science parks: part I, individual scenarios as models solutions. International Journal of Technology Intelligence and Planning, 2012, 8, 295.	0.3	5
30	Low cost membrane contactors based on hollow fibres. EPJ Web of Conferences, 2012, 25, 01009.	0.3	3
31	Equationless qualitative models of science parks: part II, optimisation by time sequences of scenarios. International Journal of Technology Intelligence and Planning, 2012, 8, 307.	0.3	3
32	Observing Ethical Principles In Business: A Competitive Advantage?. International Business and Economics Research Journal, 2011, 2, .	0.4	1
33	Qualitative phase portrait of modified Blackâ€“Scholes model. Expert Systems With Applications, 2010, 37, 3823-3826.	7.6	4
34	Common sense synthesis of equation less bankruptcy qualitative models. , 2010, , .		0
35	Qualitative identification of chaotic patterns in multidimensional time series. , 2010, , .		1
36	Qualitative feature extractions of chaotic systems. Chaos, Solitons and Fractals, 2008, 38, 364-373.	5.1	10

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37	Qualitative identification of chaotic systems behaviours. Chaos, Solitons and Fractals, 2008, 38, 70-78.	5.1	26
38	A practitioners guide to time-series methods for tourism demand forecasting â€" a case study of Durban, South Africa. Tourism Management, 2001, 22, 403-409.	9.8	183
39	Holistic tourism-crime modelling. Tourism Management, 1999, 20, 115-122.	9.8	11
40	Synthesis of qualitative models by using intelligent feedback. Computers and Chemical Engineering, 1998, 22, S1009-S1012.	3.8	1
41	Common-Sense Analysis for Tourism: A Theoretical Discussion. Tourism Economics, 1997, 3, 379-397.	4.1	8
42	A fuzzy interpolation of multidimensional experimental results of 80 Ni-20 Cr alloy. International Journal of Pressure Vessels and Piping, 1997, 71, 225-230.	2.6	0
43	A fuzzy pooling of investment cost knowledge. International Journal of Production Economics, 1996, 43, 91-106.	8.9	3
44	The qualitative and semiqualitative analysis of environmental problems. Environmental Software, 1995, 10, 75-85.	0.3	12
45	A SEMIQUALITATIVE REASONING AND ITS REALISTIC APPLICATIONS. Chemical Engineering Communications, 1995, 134, 33-50.	2.6	0
46	A rough set approach to reasoning under uncertainty. Journal of Experimental and Theoretical Artificial Intelligence, 1995, 7, 175-193.	2.8	13
47	Food engineering and information non-intensive calculi. Journal of Food Engineering, 1994, 21, 41-60.	5.2	2
48	Qualitative decision support system for cold box operation. Computers and Chemical Engineering, 1994, 18, S541-S545.	3.8	6
49	Fuzzy evaluation of large suspension mixing tanks. Chemical Engineering and Technology, 1993, 16, 125-129.	1.5	1
50	A chaos based revitalization of large reliability knowledge bases. Microelectronics Reliability, 1993, 33, 259-265.	1.7	1
51	A fuzzy upgrading of integrated vague managerial and engineering knowledge. International Journal of Production Economics, 1993, 32, 209-228.	8.9	6
52	A fractal analysis of symbolic and fuzzy knowledge and its engineering applications. Engineering Applications of Artificial Intelligence, 1993, 6, 49-56.	8.1	4
53	Fuzzy food engineering. Journal of Food Engineering, 1993, 19, 171-201.	5.2	13
54	Bestimmung des Foulingfaktors an WÃrmeÃ¼bertragungsflÃchen mit Hilfe einer Fuzzy-Wissensbasis. Forschung Im Ingenieurwesen/Engineering Research, 1993, 59, 97-101.	1.6	1

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55	ASEMIQUAUTATIVE APPROACH TO REASONING IN PROBABILISTIC NETWORKS. Applied Artificial Intelligence, 1993, 7, 223-235.	3.2	7
56	A Fractal Oriented Upgrading of Reliability and Safety Knowledge of Realistic Chemical Engineering Problems. Collection of Czechoslovak Chemical Communications, 1993, 58, 806-838.	1.0	0
57	An Integration of Quantitative and Qualitative Knowledge in Process Engineering. Collection of Czechoslovak Chemical Communications, 1993, 58, 1861-1873.	1.0	0
58	A BRITTLE FRACTURE KNOWLEDGE BASE AND ITS PRACTICAL APPLICATIONS. Fatigue and Fracture of Engineering Materials and Structures, 1992, 15, 939-952.	3.4	3
59	Practical uncertainty assessment of reasoning paths (fault trees) under total uncertainty ignorance. Journal of Loss Prevention in the Process Industries, 1992, 5, 125-131.	3.3	7
60	Integration of semiqualitative and qualitative safety models. Reliability Engineering and System Safety, 1992, 37, 33-38.	8.9	4
61	Qualitative, semiqualitative and interval algebras, and their application to engineering problems. Engineering Applications of Artificial Intelligence, 1992, 5, 553-559.	8.1	13
62	Ignorance and uncertainty in reliability reasoning. Microelectronics Reliability, 1992, 32, 1157-1170.	1.7	9
63	Reliability knowledge and fractal evaluation of chaos. Microelectronics Reliability, 1992, 32, 867-874.	1.7	4
64	Revitalization of primary reliability knowledge. Microelectronics Reliability, 1992, 32, 1015-1028.	1.7	3
65	Rough sets in reliability engineering. Microelectronics Reliability, 1992, 32, 539-543.	1.7	9
66	A fuzzy knowledge base of ball bearing wear and its practical applications. Wear, 1992, 156, 239-250.	3.1	6
67	Accidental release. Journal of Loss Prevention in the Process Industries, 1991, 4, 317-331.	3.3	4
68	A methodology for common-sense model development. Computers in Industry, 1991, 16, 141-158.	9.9	40
69	Large qualitative models of complex chemical and bioengineering processes. Collection of Czechoslovak Chemical Communications, 1991, 56, 2107-2141.	1.0	5
70	An extended logic language for representing belief. Lecture Notes in Computer Science, 1991, , 63-69.	1.3	0
71	Transfer of knowledge in chemical equipment reliability. Collection of Czechoslovak Chemical Communications, 1989, 54, 2692-2710.	1.0	3
72	Naive models as active expert system in bioengineering and chemical engineering. Collection of Czechoslovak Chemical Communications, 1988, 53, 1476-1499.	1.0	14

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73	Failure diagnosis of complex systems by a network of expert bases. Reliability Engineering, 1986, 16, 237-251.	0.3	8
74	Fuzzy description of ball-bearing wear. Wear, 1986, 110, 35-47.	3.1	11
75	A versatile expert system Seneca in chemical and system engineering. Collection of Czechoslovak Chemical Communications, 1986, 51, 1027-1039.	1.0	5
76	Fuzzy flowsheeting. The Chemical Engineering Journal, 1985, 30, 71-79.	0.3	7
77	Fuzzy modelling in biotechnology: Sucrose inversion. The Chemical Engineering Journal, 1985, 30, B51-B60.	0.3	13
78	Fuzzy strategy for failure detection and safety control of complex processes. Microelectronics Reliability, 1985, 25, 369-381.	1.7	10
79	Applications of a universal expert system in industry. Computers in Industry, 1985, 6, 115-121.	9.9	20
80	Multilevel failure detection system. Computers in Industry, 1985, 6, 253-263.	9.9	12
81	Fuzzy bioengineering models. Biotechnology and Bioengineering, 1985, 27, 1146-1151.	3.3	28
82	Fuzzy approach to factorial cost estimation of chemical plants. Engineering Costs and Production Economics, 1984, 7, 279-292.	0.2	11
83	Linguistics and fuzzy models. Computers in Industry, 1983, 4, 341-345.	9.9	25
84	Fuzzy simulation of industrial problems. Computers in Industry, 1983, 4, 347-352.	9.9	20
85	Simulation of chemical processes with uncertain parameters. Collection of Czechoslovak Chemical Communications, 1983, 48, 1588-1596.	1.0	1
86	FUZZY MODELS OF UNIT OPERATIONS. Chemical Engineering Communications, 1982, 19, 129-139.	2.6	15
87	Existence of a solution of the balance simulation problem. Collection of Czechoslovak Chemical Communications, 1981, 46, 1083-1089.	1.0	2
88	Stop criterion and simulation algorithm. Collection of Czechoslovak Chemical Communications, 1979, 44, 3194-3200.	1.0	0