

Mirko Dohnal

List of Publications by Year in descending order

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88
papers

850
citations

623734

14
h-index

580821

25
g-index

89
all docs

89
docs citations

89
times ranked

486
citing authors

#	ARTICLE	IF	CITATIONS
1	A practitioners guide to time-series methods for tourism demand forecasting – a case study of Durban, South Africa. <i>Tourism Management</i> , 2001, 22, 403-409.	9.8	183
2	A methodology for common-sense model development. <i>Computers in Industry</i> , 1991, 16, 141-158.	9.9	40
3	Predicting recycling behaviour: Comparison of a linear regression model and a fuzzy logic model. <i>Waste Management</i> , 2016, 49, 530-536.	7.4	30
4	THE COVID-19 DISEASE AND POLICY RESPONSE TO MITIGATE THE ECONOMIC IMPACT IN THE EU. <i>Technological and Economic Development of Economy</i> , 2021, 27, 742-762.	4.6	30
5	Fuzzy bioengineering models. <i>Biotechnology and Bioengineering</i> , 1985, 27, 1146-1151.	3.3	28
6	Qualitative identification of chaotic systems behaviours. <i>Chaos, Solitons and Fractals</i> , 2008, 38, 70-78.	5.1	26
7	Linguistics and fuzzy models. <i>Computers in Industry</i> , 1983, 4, 341-345.	9.9	25
8	Evaluations of corporate sustainability indicators based on fuzzy similarity graphs. <i>Ecological Indicators</i> , 2017, 78, 108-114.	6.3	25
9	Air filtration performance of symmetric polypropylene hollow-fibre membranes for nanoparticle removal. <i>Separation and Purification Technology</i> , 2018, 197, 122-128.	7.9	25
10	Fuzzy simulation of industrial problems. <i>Computers in Industry</i> , 1983, 4, 347-352.	9.9	20
11	Applications of a universal expert system in industry. <i>Computers in Industry</i> , 1985, 6, 115-121.	9.9	20
12	THE TIMING OF INITIAL PUBLIC OFFERINGS – A NON-NUMERICAL MODEL BASED ON QUALITATIVE TRENDS. <i>Journal of Business Economics and Management</i> , 2018, 19, 63-79.	2.4	18
13	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. <i>Journal of Membrane Science</i> , 2019, 592, 117393.	8.2	16
14	FUZZY MODELS OF UNIT OPERATIONS. <i>Chemical Engineering Communications</i> , 1982, 19, 129-139.	2.6	15
15	Naive models as active expert system in bioengineering and chemical engineering. <i>Collection of Czechoslovak Chemical Communications</i> , 1988, 53, 1476-1499.	1.0	14
16	Fuzzy modelling in biotechnology: Sucrose inversion. <i>The Chemical Engineering Journal</i> , 1985, 30, B51-B60.	0.3	13
17	Qualitative, semiquantitative and interval algebras, and their application to engineering problems. <i>Engineering Applications of Artificial Intelligence</i> , 1992, 5, 553-559.	8.1	13
18	Fuzzy food engineering. <i>Journal of Food Engineering</i> , 1993, 19, 171-201.	5.2	13

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19	A rough set approach to reasoning under uncertainty. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 1995, 7, 175-193.	2.8	13
20	Multilevel failure detection system. <i>Computers in Industry</i> , 1985, 6, 253-263.	9.9	12
21	The qualitative and semiquantitative analysis of environmental problems. <i>Environmental Software</i> , 1995, 10, 75-85.	0.3	12
22	Fuzzy approach to factorial cost estimation of chemical plants. <i>Engineering Costs and Production Economics</i> , 1984, 7, 279-292.	0.2	11
23	Fuzzy description of ball-bearing wear. <i>Wear</i> , 1986, 110, 35-47.	3.1	11
24	Holistic tourism-crime modelling. <i>Tourism Management</i> , 1999, 20, 115-122.	9.8	11
25	Aerosol filtration using hollow-fiber membranes: Effect of permeate velocity and dust amount on separation of submicron TiO ₂ particles. <i>Powder Technology</i> , 2018, 340, 344-353.	4.2	11
26	Fuzzy strategy for failure detection and safety control of complex processes. <i>Microelectronics Reliability</i> , 1985, 25, 369-381.	1.7	10
27	Qualitative feature extractions of chaotic systems. <i>Chaos, Solitons and Fractals</i> , 2008, 38, 364-373.	5.1	10
28	Ignorance and uncertainty in reliability reasoning. <i>Microelectronics Reliability</i> , 1992, 32, 1157-1170.	1.7	9
29	Rough sets in reliability engineering. <i>Microelectronics Reliability</i> , 1992, 32, 539-543.	1.7	9
30	RUMOURS RELATED TO POLITICAL INSTABILITY AND THEIR IMPACT ON IPOs. THE USE OF QUALITATIVE MODELLING WITH INCOMPLETE KNOWLEDGE. <i>Polish Journal of Management Studies</i> , 2017, 16, 171-187.	0.9	9
31	Failure diagnosis of complex systems by a network of expert bases. <i>Reliability Engineering</i> , 1986, 16, 237-251.	0.3	8
32	Common-Sense Analysis for Tourism: A Theoretical Discussion. <i>Tourism Economics</i> , 1997, 3, 379-397.	4.1	8
33	Fuzzy flowsheeting. <i>The Chemical Engineering Journal</i> , 1985, 30, 71-79.	0.3	7
34	Practical uncertainty assessment of reasoning paths (fault trees) under total uncertainty ignorance. <i>Journal of Loss Prevention in the Process Industries</i> , 1992, 5, 125-131.	3.3	7
35	ASEMIQUANTITATIVE APPROACH TO REASONING IN PROBABILISTIC NETWORKS. <i>Applied Artificial Intelligence</i> , 1993, 7, 223-235.	3.2	7
36	A fuzzy knowledge base of ball bearing wear and its practical applications. <i>Wear</i> , 1992, 156, 239-250.	3.1	6

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37	A fuzzy upgrading of integrated vague managerial and engineering knowledge. <i>International Journal of Production Economics</i> , 1993, 32, 209-228.	8.9	6
38	Qualitative decision support system for cold box operation. <i>Computers and Chemical Engineering</i> , 1994, 18, S541-S545.	3.8	6
39	Reconciliation of Decision-Making Heuristics Based on Decision Trees Topologies and Incomplete Fuzzy Probabilities Sets. <i>PLoS ONE</i> , 2015, 10, e0131590.	2.5	6
40	Equationless and equation-based trend models of prohibitively complex technological and related forecasts. <i>Technological Forecasting and Social Change</i> , 2016, 111, 297-304.	11.6	6
41	Equationless qualitative models of science parks: part I, individual scenarios as models solutions. <i>International Journal of Technology Intelligence and Planning</i> , 2012, 8, 295.	0.3	5
42	Complex biofuels related scenarios generated by qualitative reasoning under severe information shortages: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 65, 676-684.	16.4	5
43	Qualitative models of complex sustainability systems using integrations of equations and equationless knowledge items generated by several experts. <i>Ecological Indicators</i> , 2016, 62, 201-211.	6.3	5
44	A versatile expert system Seneca in chemical and system engineering. <i>Collection of Czechoslovak Chemical Communications</i> , 1986, 51, 1027-1039.	1.0	5
45	Large qualitative models of complex chemical and bioengineering processes. <i>Collection of Czechoslovak Chemical Communications</i> , 1991, 56, 2107-2141.	1.0	5
46	Accidental release. <i>Journal of Loss Prevention in the Process Industries</i> , 1991, 4, 317-331.	3.3	4
47	Integration of semiquantitative and qualitative safety models. <i>Reliability Engineering and System Safety</i> , 1992, 37, 33-38.	8.9	4
48	Reliability knowledge and fractal evaluation of chaos. <i>Microelectronics Reliability</i> , 1992, 32, 867-874.	1.7	4
49	A fractal analysis of symbolic and fuzzy knowledge and its engineering applications. <i>Engineering Applications of Artificial Intelligence</i> , 1993, 6, 49-56.	8.1	4
50	Qualitative phase portrait of modified Black-Scholes model. <i>Expert Systems With Applications</i> , 2010, 37, 3823-3826.	7.6	4
51	Qualitative equationless macroeconomic models as generators of all possible forecasts based on three trend values—Increasing, constant, decreasing. <i>Structural Change and Economic Dynamics</i> , 2018, 45, 30-36.	4.5	4
52	Fuzzy model of relationship among economic performance, competitiveness and business ethics of small and medium-sized enterprises. <i>Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis</i> , 2013, 60, 71-78.	0.4	4
53	Formalized qualitative modeling of online trust: introduction of the method and a detailed example. <i>E A M: Economie A Management</i> , 2016, 19, 201-213.	1.0	4
54	Fuzzy confrontations of models of ESG investing versus non-ESG investing based on artificial intelligence algorithms. <i>Journal of Sustainable Finance and Investment</i> , 2023, 13, 763-775.	6.8	4

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55	A BRITTLE FRACTURE KNOWLEDGE BASE AND ITS PRACTICAL APPLICATIONS. Fatigue and Fracture of Engineering Materials and Structures, 1992, 15, 939-952.	3.4	3
56	Revitalization of primary reliability knowledge. Microelectronics Reliability, 1992, 32, 1015-1028.	1.7	3
57	A fuzzy pooling of investment cost knowledge. International Journal of Production Economics, 1996, 43, 91-106.	8.9	3
58	Low cost membrane contactors based on hollow fibres. EPJ Web of Conferences, 2012, 25, 01009.	0.3	3
59	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
60	Transfer of knowledge in chemical equipment reliability. Collection of Czechoslovak Chemical Communications, 1989, 54, 2692-2710.	1.0	3
61	Food engineering and information non-intensive calculi. Journal of Food Engineering, 1994, 21, 41-60.	5.2	2
62	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
63	Environmental Consequences of Wildlife Tourism: The Use of Formalised Qualitative Models. Ekologia, 2015, 34, 260-267.	0.8	2
64	Existence of a solution of the balance simulation problem. Collection of Czechoslovak Chemical Communications, 1981, 46, 1083-1089.	1.0	2
65	Fuzzy evaluation of large suspension mixing tanks. Chemical Engineering and Technology, 1993, 16, 125-129.	1.5	1
66	A chaos based revitalization of large reliability knowledge bases. Microelectronics Reliability, 1993, 33, 259-265.	1.7	1
67	Bestimmung des Foulingfaktors an Wärmeübertragungsflächen mit Hilfe einer Fuzzy-Wissensbasis. Forschung Im Ingenieurwesen/Engineering Research, 1993, 59, 97-101.	1.6	1
68	Synthesis of qualitative models by using intelligent feedback. Computers and Chemical Engineering, 1998, 22, S1009-S1012.	3.8	1
69	Qualitative identification of chaotic patterns in multidimensional time series. , 2010, , .		1
70	Qualitative decision-making model of investment into start-up companies. International Journal of Technology Intelligence and Planning, 2013, 9, 165.	0.3	1
71	Analysis of Sustainability Decision Trees Generated by Qualitative Models Based on Equationless Heuristics. Sustainability, 2018, 10, 2505.	3.2	1
72	Trend prey predator model - Analysis of gause model. Global Ecology and Conservation, 2019, 18, e00634.	2.1	1

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73	A Dynamic Knowledge Model of Project Time-Cost Analysis Based on Trend Modelling. <i>Periodica Polytechnica, Social and Management Sciences</i> , 2020, 28, 18-28.	0.7	1
74	Decision-making on Implementation of IPO Under Topological Uncertainty. <i>Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis</i> , 2015, 63, 193-200.	0.4	1
75	Simulation of chemical processes with uncertain parameters. <i>Collection of Czechoslovak Chemical Communications</i> , 1983, 48, 1588-1596.	1.0	1
76	Observing Ethical Principles In Business: A Competitive Advantage?. <i>International Business and Economics Research Journal</i> , 2011, 2, .	0.4	1
77	Decision making in government tenders: A formalized qualitative model. <i>Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis</i> , 2013, 60, 397-406.	0.4	1
78	SUSTAINABILITY PROJECT: RISK ANALYSIS BASED ON DECISION TREES UNDER CONDITIONS OF TOTAL AND PARTIAL IGNORANCE. <i>Journal of Security and Sustainability Issues</i> , 2016, 5, 391-402.	0.4	1
79	A SEMIQUALITATIVE REASONING AND ITS REALISTIC APPLICATIONS. <i>Chemical Engineering Communications</i> , 1995, 134, 33-50.	2.6	0
80	A fuzzy interpolation of multidimensional experimental results of 80 Ni-20 Cr alloy. <i>International Journal of Pressure Vessels and Piping</i> , 1997, 71, 225-230.	2.6	0
81	Common sense synthesis of equation less bankruptcy qualitative models. , 2010, , .		0
82	Selection of scenarios in qualitative models: The case of a government tenders model. <i>Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis</i> , 2013, 61, 2923-2929.	0.4	0
83	Stop criterion and simulation algorithm. <i>Collection of Czechoslovak Chemical Communications</i> , 1979, 44, 3194-3200.	1.0	0
84	An extended logic language for representing belief. <i>Lecture Notes in Computer Science</i> , 1991, , 63-69.	1.3	0
85	A Fractal Oriented Upgrading of Reliability and Safety Knowledge of Realistic Chemical Engineering Problems. <i>Collection of Czechoslovak Chemical Communications</i> , 1993, 58, 806-838.	1.0	0
86	An Integration of Quantitative and Qualitative Knowledge in Process Engineering. <i>Collection of Czechoslovak Chemical Communications</i> , 1993, 58, 1861-1873.	1.0	0
87	Reconciliation as a tool for decision making within decision tree related to insolvency problems. <i>Trendy Ekonomiky A Managementu</i> , 2016, 10, 33.	0.2	0
88	Financial impact analysis of going public at the Warsaw Stock Exchange: Using Fuzzy Set Theory to understand behaviours of mature companies. <i>Management and Marketing</i> , 2019, 14, 59-79.	1.7	0