Jos Carlos R Alcantud

List of Publications by Citations

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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.

197 papers	4,591 citations	40 h-index	59 g-index
204 ext. papers	5,636 ext. citations	4 avg, IF	7.3 L-index

#	Paper	IF	Citations
197	A survey of decision making methods based on certain hybrid soft set models. *Artificial Intelligence Review*, **2017**, 47, 507-530	9.7	152
196	On a novel uncertain soft set model: Z-soft fuzzy rough set model and corresponding decision making methods. *Applied Soft Computing Journal*, **2017**, 56, 446-457	7.5	150
195	A novel soft rough set: Soft rough hemirings and corresponding multicriteria group decision making. *Applied Soft Computing Journal*, **2017**, 54, 393-402	7.5	149
194	Covering based multigranulation(I,T)-fuzzy rough set models and applications in multi-attribute group decision-making. *Information Sciences*, **2019**, 476, 290-318	7.7	142
193	Covering-based generalized IF rough sets with applications to multi-attribute decision-making. *Information Sciences*, **2019**, 478, 275-302	7.7	111
192	A novel type of soft rough covering and its application to multicriteria group decision making. *Artificial Intelligence Review*, **2019**, 52, 2381-2410	9.7	106
191	A novel soft rough fuzzy set: Z-soft rough fuzzy ideals of hemirings and corresponding decision making. *Soft Computing*, **2017**, 21, 1923-1936	3.5	102
190	N-soft sets and their decision making algorithms. *Soft Computing*, **2018**, 22, 3829-3842	3.5	99
189	A survey of decision making methods based on two classes of hybrid soft set models. *Artificial Intelligence Review*, **2018**, 49, 511-529	9.7	97
188	A new rough set theory: rough soft hemirings. *Journal of Intelligent and Fuzzy Systems*, **2015**, 28, 1687-1697	1.6	95
187	Covering-Based Variable Precision $(mathcal {I},mathcal {T})$-Fuzzy Rough Sets With Applications to Multiattribute Decision-Making. *IEEE Transactions on Fuzzy Systems*, **2019**, 27, 1558-1572	8.3	92
186	Group decision-making methods based on hesitant N-soft sets. *Expert Systems With Applications*, **2019**, 115, 95-105	7.8	86
185	A novel algorithm for fuzzy soft set based decision making from multiobserver input parameter data set. *Information Fusion*, **2016**, 29, 142-148	16.7	85
184	Decomposition theorems and extension principles for hesitant fuzzy sets. *Information Fusion*, **2018**, 41, 48-56	16.7	80
183	A survey of parameter reduction of soft sets and corresponding algorithms. *Artificial Intelligence Review*, **2019**, 52, 1839-1872	9.7	77
182	Fuzzy covering based (I,T)-fuzzy rough set models and applications to multi-attribute decision-making. *Computers and Industrial Engineering*, **2019**, 128, 605-621	6.4	76
181	Two types of coverings based multigranulation rough fuzzy sets and applications to decision making. *Artificial Intelligence Review*, **2020**, 53, 167-198	9.7	72

180	Fuzzy soft (beta)-covering based fuzzy rough sets and corresponding decision-making applications. *International Journal of Machine Learning and Cybernetics*, **2019**, 10, 1487-1502	3.8	70
179	Some formal relationships among soft sets, fuzzy sets, and their extensions. *International Journal of Approximate Reasoning*, **2016**, 68, 45-53	3.6	67
178	Novel classes of fuzzy soft (beta)-coverings-based fuzzy rough sets with applications to multi-criteria fuzzy group decision making. *Soft Computing*, **2019**, 23, 5327-5351	3.5	60
177	Fuzzy N-soft sets: A novel model with applications. *Journal of Intelligent and Fuzzy Systems*, **2018**, 35, 4757-4771	1.6	60
176	Necessary and possible hesitant fuzzy sets: A novel model for group decision making. *Information Fusion*, **2019**, 46, 63-76	16.7	56
175	A New Criterion for Soft Set Based Decision Making Problems under Incomplete Information. *International Journal of Computational Intelligence Systems*, **2017**, 10, 394	3.4	56
174	New decision-making hybrid model: intuitionistic fuzzy N-soft rough sets. *Soft Computing*, **2019**, 23, 9853-9868	3.5	53
173	Aggregation of infinite chains of intuitionistic fuzzy sets and their application to choices with temporal intuitionistic fuzzy information. *Information Sciences*, **2020**, 514, 106-117	7.7	53
172	Covering-based general multigranulation intuitionistic fuzzy rough sets and corresponding applications to multi-attribute group decision-making. *Information Sciences*, **2019**, 494, 114-140	7.7	52
171	Dis&approval voting: a characterization. *Social Choice and Welfare*, **2014**, 43, 1-10	0.7	52
170	TOPSIS method based on a fuzzy covering approximation space: An application to biological nano-materials selection. *Information Sciences*, **2019**, 502, 297-329	7.7	51
169	An N-Soft Set Approach to Rough Sets. *IEEE Transactions on Fuzzy Systems*, **2020**, 28, 2996-3007	8.3	50
168	Intuitionistic fuzzy TOPSIS method based on CVPIFRS models: An application to biomedical problems. *Information Sciences*, **2020**, 517, 315-339	7.7	48
167	Risk evaluation in failure modes and effects analysis: hybrid TOPSIS and ELECTRE I solutions with Pythagorean fuzzy information. *Neural Computing and Applications*, **2021**, 33, 5675-5703	4.8	48
166	Reviews on decision making methods based on (fuzzy) soft sets and rough soft sets. *Journal of Intelligent and Fuzzy Systems*, **2015**, 29, 1169-1176	1.6	47
165	Covering-based variable precision fuzzy rough sets with PROMETHEE-EDAS methods. *Information Sciences*, **2020**, 538, 314-336	7.7	46
164	Certain types of soft coverings based rough sets with applications. *International Journal of Machine Learning and Cybernetics*, **2019**, 10, 1065-1076	3.8	45
163	On Multicriteria Decision-Making Method Based on a Fuzzy Rough Set Model With Fuzzy $alpha$-Neighborhoods. *IEEE Transactions on Fuzzy Systems*, **2020**, 1-1	8.3	44

162	Probabilistic soft sets and dual probabilistic soft sets in decision-making. *Neural Computing and Applications*, **2019**, 31, 397-407	4.8	44
161	A novel fuzzy rough set model with fuzzy neighborhood operators. *Information Sciences*, **2021**, 544, 266-297	7.7	44
160	A novel decision-making approach based on three-way decisions in fuzzy information systems. *Information Sciences*, **2020**, 541, 362-390	7.7	43
159	Group Decision-Making Based on the VIKOR Method with Trapezoidal Bipolar Fuzzy Information. *Symmetry*, **2019**, 11, 1313	2.7	42
158	Hesitant Fuzzy Worth: An innovative ranking methodology for hesitant fuzzy subsets. *Applied Soft Computing Journal*, **2016**, 38, 232-243	7.5	40
157	Separable fuzzy soft sets and decision making with positive and negative attributes. *Applied Soft Computing Journal*, **2017**, 59, 586-595	7.5	39
156	Group decision-making framework using complex Pythagorean fuzzy information. *Neural Computing and Applications*, **2021**, 33, 2085-2105	4.8	39
155	Hesitant fuzzy N-soft sets: A new model with applications in decision-making. *Journal of Intelligent and Fuzzy Systems*, **2019**, 36, 6113-6127	1.6	38
154	PF-TOPSIS method based on CPFRS models: An application to unconventional emergency events. *Computers and Industrial Engineering*, **2020**, 139, 106192	6.4	37
153	TOPSIS-WAA method based on a covering-based fuzzy rough set: An application to rating problem. *Information Sciences*, **2020**, 539, 397-421	7.7	35
152	A Study on Hypergraph Representations of Complex Fuzzy Information. *Symmetry*, **2019**, 11, 1381	2.7	35
151	Covering based multigranulation fuzzy rough sets and corresponding applications. *Artificial Intelligence Review*, **2020**, 53, 1093-1126	9.7	32
150	Soft Open Bases and a Novel Construction of Soft Topologies from Bases for Topologies. *Mathematics*, **2020**, 8, 672	2.3	31
149	Novel decision-making method based on bipolar neutrosophic information. *Soft Computing*, **2019**, 23, 9955-9977	3.5	31
148	Covering-based intuitionistic fuzzy rough sets and applications in multi-attribute decision-making. *Artificial Intelligence Review*, **2020**, 53, 671-701	9.7	31
147	Multi-Attribute Decision-Making Based on m-Polar Fuzzy Hamacher Aggregation Operators. *Symmetry*, **2019**, 11, 1498	2.7	30
146	An MADM approach to covering-based variable precision fuzzy rough sets: an application to medical diagnosis. *International Journal of Machine Learning and Cybernetics*, **2020**, 11, 2181-2207	3.8	29
145	Valuation Fuzzy Soft Sets: A Flexible Fuzzy Soft Set Based Decision Making Procedure for the Valuation of Assets. *Symmetry*, **2017**, 9, 253	2.7	28

144	Digraph and matrix approach for risk evaluations under Pythagorean fuzzy information. *Expert Systems With Applications*, **2021**, 170, 114518	7.8	28
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142	Fuzzy politics I: The genesis of parties. *Fuzzy Sets and Systems*, **2018**, 349, 71-98	3.7	25
141	Fuzzy parameterized fuzzy soft sets and decision making. *International Journal of Machine Learning and Cybernetics*, **2016**, 7, 1207-1212	3.8	25
140	Revealed Indifference and Models of Choice Behavior. *Journal of Mathematical Psychology*, **2002**, 46, 418-430	1.2	25
139	Best concept selection in design process: An application of generalized intuitionistic fuzzy soft sets. *Journal of Intelligent and Fuzzy Systems*, **2018**, 35, 5707-5720	1.6	24
138	An optimization study based on Dijkstra algorithm for a network with trapezoidal picture fuzzy numbers. *Neural Computing and Applications*, **2021**, 33, 1329-1342	4.8	23
137	Three-way multi-attribute decision making under hesitant fuzzy environments. *Information Sciences* , **2021**, 552, 328-351	7.7	23
136	Characterization of the existence of maximal elements of acyclic relations. *Economic Theory*, **2002**, 19, 407-416	1.2	21
135	The problem of collective identity in a fuzzy environment. *Fuzzy Sets and Systems*, **2017**, 315, 57-75	3.7	20
134	Parameter Reductions of Bipolar Fuzzy Soft Sets with Their Decision-Making Algorithms. *Symmetry*, **2019**, 11, 949	2.7	20
133	Glaucoma Diagnosis: A Soft Set Based Decision Making Procedure. *Lecture Notes in Computer Science*, **2015**, 49-60	0.9	19
132	Attributes reductions of bipolar fuzzy relation decision systems. *Neural Computing and Applications*, **2020**, 32, 10051-10071	4.8	19
131	Novel MCGDM analysis under m-polar fuzzy soft expert sets. *Neural Computing and Applications*, **2021**, 33, 12051-12071	4.8	19
130	Analysis of survival for lung cancer resections cases with fuzzy and soft set theory in surgical decision making. *PLoS ONE*, **2019**, 14, e0218283	3.7	18
129	Multi-Criteria Group Decision-Making Using an m-Polar Hesitant Fuzzy TOPSIS Approach. *Symmetry*, **2019**, 11, 795	2.7	18
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127	A kind of new rough set: Rough soft sets and rough soft rings. *Journal of Intelligent and Fuzzy Systems*, **2015**, 30, 475-483	1.6	17

126	Three-way decisions based multi-attribute decision making with probabilistic dominance relations. *Information Sciences*, **2021**, 559, 75-96	7.7	17
125	A multimodal adaptive approach on soft set based diagnostic risk prediction system. *Journal of Intelligent and Fuzzy Systems*, **2018**, 34, 1609-1618	1.6	16
124	A new consensus ranking approach for correlated ordinal information based on Mahalanobis distance. *Information Sciences*, **2016**, 372, 546-564	7.7	16
123	The multi-fuzzy N-soft set and its applications to decision-making. *Neural Computing and Applications*, **2021**, 33, 11437	4.8	16
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119	Inequality averse criteria for evaluating infinite utility streams: The impossibility of Weak Pareto. *Journal of Economic Theory*, **2012**, 147, 353-363	1.4	15
118	Evaluations of Infinite Utility Streams: Pareto Efficient and Egalitarian Axiomatics. *Metroeconomica*, **2013**, 64, 432-447	0.9	15
117	A hybrid decision-making framework under complex spherical fuzzy prioritized weighted aggregation operators. *Expert Systems*, **2021**, 38, e12712	2.1	15
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115	Hesitant fuzzy N-soft ELECTRE-II model: a new framework for decision-making. *Neural Computing and Applications*, **2021**, 33, 7505-7520	4.8	15
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111	Paretian evaluation of infinite utility streams: An egalitarian criterion. *Economics Letters*, **2010**, 106, 209-211	2.1	14
110	Hybrid Decision-Making Frameworks under Complex Spherical Fuzzy N -Soft Sets. *Journal of Mathematics*, **2021**, 2021, 1-46	1.2	14
109	Multi-attribute decision-making with q-rung picture fuzzy information. *Granular Computing*,1	5.4	13

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107	An investigation on Wu-Leung multi-scale information systems and multi-expert group decision-making. *Expert Systems With Applications*, **2021**, 170, 114542	7.8	12
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105	A three-way decision methodology to multi-attribute decision-making in multi-scale decision information systems. *Information Sciences*, **2021**, 568, 175-198	7.7	12
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97	Characterization of the existence of semicontinuous weak utilities. *Journal of Mathematical Economics*, **1999**, 32, 503-509	0.6	10
96	A new outranking method for multicriteria decision making with complex Pythagorean fuzzy information. *Neural Computing and Applications*,1	4.8	10
95	Fuzzy soft set based decision making: a novel alternative approach		10
94	A three-way decision approach with probabilistic dominance relations under intuitionistic fuzzy information. *Information Sciences*, **2022**, 582, 114-145	7.7	10
93	A new soft union set: characterizations of hemirings. *International Journal of Machine Learning and Cybernetics*, **2017**, 8, 525-535	3.8	9
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91	Maximal association analysis using logical formulas over soft sets. *Expert Systems With Applications*, **2020**, 159, 113557	7.8	9

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89	Incomplete Soft Sets: New Solutions for Decision Making Problems. *Advances in Intelligent Systems and Computing*, **2016**, 9-17	0.4	9
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85	Continuous representation by a money-metric function. *Mathematical Social Sciences*, **2001**, 41, 365-373	0.7	9
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80	Non-binary choice in a non-deterministic model. *Economics Letters*, **2002**, 77, 117-123	1.3	8
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75	The relationship between soft sets and fuzzy sets and its application. *Journal of Intelligent and Fuzzy Systems*, **2019**, 36, 3751-3764	1.6	7
74	Improved generalized dissimilarity measure-based VIKOR method for Pythagorean fuzzy sets. *International Journal of Intelligent Systems*,	8.4	7
73	Minkowski Weighted Score Functions of Intuitionistic Fuzzy Values. *Mathematics*, **2020**, 8, 1143	2.3	7

72	An Operational Characterization of Soft Topologies by Crisp Topologies. *Mathematics*, **2021**, 9, 1656	2.3	7
71	An axiomatically supported divergence measures for q-rung orthopair fuzzy sets. *International Journal of Intelligent Systems*, **2021**, 36, 6133-6155	8.4	7
70	PROMETHEE II method based on variable precision fuzzy rough sets with fuzzy neighborhoods. *Artificial Intelligence Review*, **2021**, 54, 1281-1319	9.7	6
69	L-fuzzifying approximation operators derived from general L-fuzzifying neighborhood systems. *International Journal of Machine Learning and Cybernetics*, **2021**, 12, 1343-1367	3.8	6
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65	Expanded hesitant fuzzy sets and group decision making **2017**,		5
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63	An m-Polar Fuzzy PROMETHEE Approach for AHP-Assisted Group Decision-Making. *Mathematical and Computational Applications*, **2020**, 25, 26	1	5
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50	Maximality with or without binariness: Transfer-type characterizations. *Mathematical Social Sciences*, **2006**, 51, 182-191	0.7	4
49	Preference through indifference: a topological approach. *Journal of Mathematical Economics*, **1999**, 31, 543-551	0.6	4
48	The Relationship Between Fuzzy Soft and Soft Topologies. *International Journal of Fuzzy Systems*,1	3.6	4
47	Three-way decision based on canonical soft sets of hesitant fuzzy sets. *AIMS Mathematics*, **2021**, 7, 2061-2083	2.2	4
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45	Fuzzy soft matrices on fuzzy soft multiset and its applications in optimization problems. *Journal of Intelligent and Fuzzy Systems*, **2020**, 38, 2311-2322	1.6	4
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42	Incomplete three-way multi-attribute group decision making based on adjustable multigranulation Pythagorean fuzzy probabilistic rough sets. *International Journal of Approximate Reasoning*, **2022**, 147, 40-59	3.6	4
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34	Nash equilibria for non-binary choice rules. *International Journal of Game Theory*, **2007**, 35, 455-464	0.5	3
33	A STUDY ON Z-SOFT ROUGH FUZZY SEMIGROUPS AND ITS DECISION-MAKING **2018**, 8, 1-22		3
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31	An algorithm to compute the strength of competing interactions in the Bering Sea based on pythagorean fuzzy hypergraphs. *Neural Computing and Applications*,1	4.8	3
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29	Yet another characterization of the majority rule. *Economics Letters*, **2019**, 177, 52-55	1.3	2
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24	Independent collective identity functions as voting rules. *Theory and Decision*, **2020**, 89, 107-119	0.8	2
23	Consensus measures for various informational bases. Three new proposals and two case studies from political science. *Quality and Quantity*, **2017**, 51, 285-306	2.4	1
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1	An Advised Indirect-Utility Ranking of Opportunity Sets. *Symmetry*, **2021**, 13, 1404	2.7	