Joan Torrens

List of Publications by Year
in descending order

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140 papers	3,803 citations	117453 34 h-index	143772 57 g-index
141 all docs	141 docs citations	141 times ranked	669 citing authors

#	Article	IF	Citations
1	A Survey on Fuzzy Implication Functions. IEEE Transactions on Fuzzy Systems, 2007, 15, 1107-1121.	6.5	321
2	tâ€“OPERATORS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 1999, 07, 31-50.	0.9	166
3	A new linguistic computational model based on discrete fuzzy numbers for computing with words. Information Sciences, 2014, 258, 277-290.	4.0	165
4	The distributivity condition for uninorms and t-operators. Fuzzy Sets and Systems, 2002, 128, 209-225.	1.6	141
5	Distributivity and conditional distributivity of a uninorm and a continuous t-conorm. IEEE Transactions on Fuzzy Systems, 2006, 14, 180-190.	6.5	113
6	On locally internal monotonic operations. Fuzzy Sets and Systems, 2003, 137, 27-42.	1.6	112
7	On a class of operators for expert systems. International Journal of Intelligent Systems, 1993, 8, 771-778.	3.3	109
8	The modularity condition for uninorms and t-operators. Fuzzy Sets and Systems, 2002, 126, 207-218.	1.6	86
9	t-Operators and uninorms on a finite totally ordered set. International Journal of Intelligent Systems, 1999, 14, 909-922.	3.3	84
10	Distributivity of residual implications over conjunctive and disjunctive uninorms. Fuzzy Sets and Systems, 2007, 158, 23-37.	1.6	84
11	Two types of implications derived from uninorms. Fuzzy Sets and Systems, 2007, 158, 2612-2626.	1.6	82
12	A survey on the existing classes of uninorms. Journal of Intelligent and Fuzzy Systems, 2015, 29, 1021-1037.	0.8	81
13	On a new class of fuzzy implications: h-Implications and generalizations. Information Sciences, 2011, 181, 2111-2127.	4.0	71
14	Migrative uninorms and nullnorms over t-norms and t-conorms. Fuzzy Sets and Systems, 2015, 261, 20-32.	1.6	68
15	A characterization of residual implications derived from left-continuous uninorms. Information Sciences, 2010, 180, 3992-4005.	4.0	66
16	A characterization of a class of uninorms with continuous underlying operators. Fuzzy Sets and Systems, 2016, 287, 137-153.	1.6	64
17	IDEMPOTENT UNINORMS ON FINITE ORDINAL SCALES. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2009, 17, 1-14.	0.9	61
18	Triangular norms on discrete settings. , 2005, , 189-230.		60

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19	The law of importation versus the exchange principle on fuzzy implications. Fuzzy Sets and Systems, 2011, 168, 47-69.	1.6	60
20	S- and R-implications from uninorms continuous in and their distributivity over uninorms. Fuzzy Sets and Systems, 2009, 160, 832-852.	1.6	59
21	On the representation of fuzzy rules. International Journal of Approximate Reasoning, 2008, 48, 583-597.	1.9	58
22	Some interesting properties of the fuzzy linguistic model based on discrete fuzzy numbers to manage hesitant fuzzy linguistic information. Applied Soft Computing Journal, 2015, 36, 383-391.	4.1	58
23	Aggregation operators with annihilator. International Journal of General Systems, 2005, 34, 17-38.	1.2	54
24	A characterization of (U,N), RU, QL and D-implications derived from uninorms satisfying the law of importation. Fuzzy Sets and Systems, 2010, 161, 1369-1387.	1.6	53
25	DISTRIBUTIVE IDEMPOTENT UNINORMS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2003, 11, 413-428.	0.9	50
26	Copula-like operations on finite settings. IEEE Transactions on Fuzzy Systems, 2005, 13, 468-477.	6.5	49
27	Threshold generation method of construction of a new implication from two given ones. Fuzzy Sets and Systems, 2012, 205, 50-75.	1.6	48
28	Aggregation of subjective evaluations based on discrete fuzzy numbers. Fuzzy Sets and Systems, 2012, 191, 21-40.	1.6	48
29	Fuzzy Implications: Past, Present, and Future. , 2015, , 183-202.		44
30	The law of importation for discrete implications. Information Sciences, 2009, 179, 4208-4218.	4.0	43
31	An extension of the migrative property for uninorms. Information Sciences, 2013, 246, 191-198.	4.0	42
32	On the characterization of Yagerâ€™s implications. Information Sciences, 2012, 201, 1-18.	4.0	39
33	GENERATION OF WEIGHTING TRIANGLES ASSOCIATED WITH AGGREGATION FUNCTIONS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2000, 08, 417-451.	0.9	38
34	On the distributivity property for uninorms. Fuzzy Sets and Systems, 2016, 287, 184-202.	1.6	38
35	Some Remarks on the Characterization of Idempotent Uninorms. Lecture Notes in Computer Science, 2010, , 425-434.	1.0	38
36	On left and right uninorms on a finite chain. Fuzzy Sets and Systems, 2004, 146, 3-17.	1.6	37

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37	Continuous R-implications generated from representable aggregation functions. Fuzzy Sets and Systems, 2010, 161, 2276-2289.	1.6	33
38	An axiomatic approach to fuzzy cardinalities of finite fuzzy sets. Fuzzy Sets and Systems, 2003, 133, 193-209.	1.6	32
39	Fuzzy implication functions based on powers of continuous t-norms. International Journal of Approximate Reasoning, 2017, 83, 265-279.	1.9	32
40	ON LEFT AND RIGHT UNINORMS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2001, 09, 491-507.	0.9	30
41	On the vertical threshold generation method of fuzzy implication and its properties. Fuzzy Sets and Systems, 2013, 226, 32-52.	1.6	29
42	An Overview of Construction Methods of Fuzzy Implications. Studies in Fuzziness and Soft Computing, 2013, , 1-30.	0.6	29
43	Kernel aggregation functions on finite scales. Constructions from their marginals. Fuzzy Sets and Systems, 2014, 241, 27-40.	1.6	27
44	Characterization of Fuzzy Implication Functions With a Continuous Natural Negation Satisfying the Law of Importation With a Fixed t-Norm. IEEE Transactions on Fuzzy Systems, 2017, 25, 100-113.	6.5	26
45	Residual implications on the set of discrete fuzzy numbers. Information Sciences, 2013, 247, 131-143.	4.0	24
46	A model based on subjective linguistic preference relations for group decision making problems. Information Sciences, 2016, 355-356, 249-264.	4.0	24
47	A characterization of a class of aggregation functions. Fuzzy Sets and Systems, 1993, 53, 33-38.	1.6	23
48	On two types of discrete implications. International Journal of Approximate Reasoning, 2005, 40, 262-279.	1.9	23
49	Modus ponens and modus tollens in discrete implications. International Journal of Approximate Reasoning, 2008, 49, 422-435.	1.9	22
50	Intersection of Yagerâ€™s implications with QL and D-implications. International Journal of Approximate Reasoning, 2012, 53, 467-479.	1.9	22
51	On a family of t-norms. Fuzzy Sets and Systems, 1991, 41, 161-166.	1.6	21
52	Corrigendum to â€œThe distributivity condition for uninorms and t-operatorsâ€•[Fuzzy Sets and Systems, 128 (2002) 209â€“225]. Fuzzy Sets and Systems, 2005, 153, 297-299.	1.6	21
53	Aggregation functions on the set of discrete fuzzy numbers defined from a pair of discrete aggregations. Fuzzy Sets and Systems, 2014, 241, 76-93.	1.6	21
54	A characterization of discrete uninorms having smooth underlying operators. Fuzzy Sets and Systems, 2015, 268, 44-58.	1.6	21

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55	The distributivity equation for uninorms revisited. Fuzzy Sets and Systems, 2018, 334, 1-23.	1.6	21
56	A new approach to Zadehâ€™s Z-numbers: Mixed-discrete Z-numbers. Information Fusion, 2020, 53, 35-42.	11.7	21
57	ON DISTRIBUTIVITY AND MODULARITY IN DE MORGAN TRIPLETS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 1996, 04, 351-368.	0.9	20
58	New types of contrapositivisation of fuzzy implications with respect to fuzzy negations. Information Sciences, 2015, 322, 223-236.	4.0	20
59	RU and (U,N)-implications satisfying Modus Ponens. International Journal of Approximate Reasoning, 2016, 73, 123-137.	1.9	20
60	Sklar's Theorem in Finite Settings. IEEE Transactions on Fuzzy Systems, 2007, 15, 410-416.	6.5	18
61	Matrix representation of discrete quasi-copulas. Fuzzy Sets and Systems, 2008, 159, 1658-1672.	1.6	18
62	On fuzzy implications: An axiomatic approach. International Journal of Approximate Reasoning, 2013, 54, 1471-1482.	1.9	18
63	Using discrete fuzzy numbers in the aggregation of incomplete qualitative information. Fuzzy Sets and Systems, 2015, 264, 121-137.	1.6	18
64	The modularity condition for uninorms revisited. Fuzzy Sets and Systems, 2019, 357, 27-46.	1.6	18
65	On bisymmetric operators on a finite chain. IEEE Transactions on Fuzzy Systems, 2003, 11, 647-651.	6.5	17
66	SCALAR CARDINALITIES OF FINITE FUZZY SETS FOR t-NORMS AND t-CONORMS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2003, 11, 599-614.	0.9	17
67	On some properties of threshold generated implications. Fuzzy Sets and Systems, 2012, 205, 30-49.	1.6	17
68	Characterization of a Class of Fuzzy Implication Functions Satisfying the Law of Importation With Respect to a Fixed Uninormâ€”Part I. IEEE Transactions on Fuzzy Systems, 2018, 26, 1983-1994.	6.5	17
69	Some characterizations of T-power based implications. Fuzzy Sets and Systems, 2019, 359, 42-62.	1.6	15
70	The migrativity equation for uninorms revisited. Fuzzy Sets and Systems, 2017, 323, 56-78.	1.6	13
71	Characterization of a Class of Fuzzy Implication Functions Satisfying the Law of Importation With Respect to a Fixed Uninormâ€”Part II. IEEE Transactions on Fuzzy Systems, 2018, 26, 1995-2003.	6.5	13
72	Duality for a class of binary operations on [0, 1]. Fuzzy Sets and Systems, 1992, 47, 77-80.	1.6	12

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73	On the reversibility of uninorms and t-operators. Fuzzy Sets and Systems, 2002, 131, 303-314.	1.6	12
74	Matrix representation of copulas and quasi-copulas defined on non-square grids of the unit square. Fuzzy Sets and Systems, 2010, 161, 254-268.	1.6	12
75	Smooth t-subnorms on finite scales. Fuzzy Sets and Systems, 2011, 167, 82-91.	1.6	12
76	Uninorm based residual implications satisfying the Modus Ponens property with respect to a uninorm. Fuzzy Sets and Systems, 2019, 359, 22-41.	1.6	11
77	On Migrative t-Conorms and Uninorms. Communications in Computer and Information Science, 2012, , 286-295.	0.4	11
78	Algebraic transformation of unary partial algebras I. double-pushout approach. Theoretical Computer Science, 1997, 184, 145-193.	0.5	10
79	A construction method of semicopulas from fuzzy negations. Fuzzy Sets and Systems, 2013, 226, 99-114.	1.6	10
80	Polynomial constructions of fuzzy implication functions: The quadratic case. Information Sciences, 2019, 494, 60-79.	4.0	10
81	De Rham systems and the solution of a class of functional equations. Aequationes Mathematicae, 1994, 47, 43-49.	0.4	9
82	Discrete t-norms in a fuzzy mathematical morphology: Algebraic properties and experimental results. , 2010, , .		8
83	From three to one: Equivalence and characterization of material implications derived from co-copulas, probabilistic S -implications and survival S -implications. Fuzzy Sets and Systems, 2017, 323, 103-116.	1.6	8
84	On two construction methods of copulas from fuzzy implication functions. Progress in Artificial Intelligence, 2016, 5, 1-14.	1.5	7
85	The non-contradiction principle related to natural negations of fuzzy implication functions. Fuzzy Sets and Systems, 2019, 359, 3-21.	1.6	7
86	Dual Representable Aggregation Functions and Their Derived S-Implications. Lecture Notes in Computer Science, 2010, , 408-417.	1.0	7
87	WHEN IS A CATEGORY OF MANY-SORTED PARTIAL ALGEBRAS CARTESIAN-CLOSED?. International Journal of Foundations of Computer Science, 1995, 06, 51-66.	0.8	6
88	Corrigendum to â€œFuzzy implication functions based on powers of continuous t-normsâ€•[Int. J. Approx. Reason. 83 (2017) 265â€“279]. International Journal of Approximate Reasoning, 2019, 104, 144-147.	1.9	6
89	Some Remarks on the Fuzzy Linguistic Model Based on Discrete Fuzzy Numbers. Advances in Intelligent Systems and Computing, 2015, , 319-330.	0.5	6
90	Conjecturing from consequences. International Journal of General Systems, 2009, 38, 567-578.	1.2	5

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91	Migrativity of Uninorms over T-norms and T-conorms. Advances in Intelligent Systems and Computing, 2013, , 155-166.	0.5	5
92	On theN *-metric completion of regular rings. Archiv Der Mathematik, 1986, 47, 529-534.	0.3	4
93	A New Look on Fuzzy Implication Functions: FNI-implications. Communications in Computer and Information Science, 2016, , 375-386.	0.4	4
94	Fuzzy implications defined on the set of discrete fuzzy numbers. , 2011, , .		4
95	Smooth Aggregation Functions on Finite Scales. Lecture Notes in Computer Science, 2010, , 398-407.	1.0	4
96	A new method of generating fuzzy implications from given ones. , 2011, , .		4
97	On Some Classes of Idempotent Operators. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 1997, 05, 401-410.	0.9	3
98	BALANCED DISCRETE FUZZY MEASURES. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2000, 08, 665-676.	0.9	3
99	Relevancy transformation operators: Construction methods. International Journal of Intelligent Systems, 2006, 21, 155-171.	3.3	3
100	An overview of fuzzy logic connectives on the unit interval. Fuzzy Sets and Systems, 2015, 281, 183-187.	1.6	3
101	Equivalence and characterization of probabilistic and survival implications. Fuzzy Sets and Systems, 2019, 359, 63-79.	1.6	3
102	On a Generalization of the Modus Ponens: U-conditionality. Communications in Computer and Information Science, 2016, , 387-398.	0.4	3
103	Using Uninorms and Nullnorms to Modify Fuzzy Implication Functions. Advances in Intelligent Systems and Computing, 2018, , 106-117.	0.5	3
104	On a Generalization of Yagerâ€™s Implications. Communications in Computer and Information Science, 2012, , 315-324.	0.4	3
105	Residual implications derived from uninorms satisfying Modus Ponens. , 0, , .		3
106	Hypergraph Rewriting Using Conformisms. Electronic Notes in Theoretical Computer Science, 1995, 2, 207-214.	0.9	2
107	Associative operators based on t-norms and t-conorms. , 2003, , 393-404.		2
108	A consensus model for group decision-making problems with subjective linguistic preference relations. , 2015, , .		2

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109	Aggregation functions given by polynomial functions. , 2017, , .		2
110	How to modify a fuzzy implication function to satisfy a desired property. International Journal of Approximate Reasoning, 2018, 103, 168-183.	1.9	2
111	Some Remarks on the Solutions to the Functional Equation I(x,y)â€‰=â€‰I(x,I(x,y)) for D-Operations. Communications in Computer and Information Science, 2010, , 666-675.	0.4	2
112	Implications Satisfying the Law of Importation with a Given Uninorm. Communications in Computer and Information Science, 2014, , 148-157.	0.4	2
113	On some new relations between copulas and fuzzy implication functions. , 2017, , .		1
114	Modus tollens with respect to uninorms: U-Modus Tollens. International Journal of Approximate Reasoning, 2020, 127, 54-69.	1.9	1
115	On Some Classes of RU-Implications Satisfying U-Modus Ponens. Advances in Intelligent Systems and Computing, 2018, , 71-82.	0.5	1
116	On Linear and Quadratic Constructions of Fuzzy Implication Functions. Communications in Computer and Information Science, 2018, , 623-635.	0.4	1
117	Constructing non-functionally expressible fuzzy implications. , 2013, , .		1
118	An extension of Yager's implications. , 2013, , .		1
119	On e-Vertical Generated Implications. Advances in Intelligent and Soft Computing, 2011, , 157-168.	0.2	1
120	Uninorms and nullnorms on the set of discrete fuzzy numbers. , 2011, , .		1
121	Coimplications on Finite Scales. Communications in Computer and Information Science, 2012, , 325-334.	0.4	1
122	Implications Satisfying the Law of Importation with a Given T-norm. Advances in Intelligent Systems and Computing, 2013, , 417-428.	0.5	1
123	Residual Implications from Discrete Uninorms. A Characterization. Studies in Fuzziness and Soft Computing, 2015, , 27-40.	0.6	1
124	Some brief considerations on the associativity degree of binary operators. , 0, , .		0
125	Implications generated from additive generators of representable uninorms: (h, e)-implications. , 2011, , .		0
126	Aggregation techniques and applications. Fuzzy Sets and Systems, 2011, 167, 1-2.	1.6	0

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127	A New Vision of Zadehâ€™s Z-numbers. Communications in Computer and Information Science, 2016, , 581-592.	0.4	0
128	On fuzzy implication functions defined using powers of continuous t-norms. , 2017, , .		0
129	On the T-power Inverse Invariance Property on Fuzzy Implication Functions. , 2018, , .		0
130	Generalized Modus Ponens for (U,ÂN)-implications. Communications in Computer and Information Science, 2018, , 649-660.	0.4	0
131	Some Remarks About Polynomial Aggregation Functions. Advances in Intelligent Systems and Computing, 2019, , 47-59.	0.5	0
132	A Construction Method of Aggregations Functions on the Set of Discrete Fuzzy Numbers. Advances in Intelligent and Soft Computing, 2011, , 113-124.	0.2	0
133	Discrete Kernel Aggregation Functions. Advances in Intelligent and Soft Computing, 2011, , 137-145.	0.2	0
134	Solutions of Equation I(x,y)â€‰=â€‰I(x,I(x,y)) for Implications Derived from Uninorms. Lecture Notes in Computer Science, 2011, , 1-8.	1.0	0
135	Defining Aggregation Functions from Negations. Advances in Intelligent and Soft Computing, 2011, , 125-135.	0.2	0
136	Discrete uninorms with smooth underlying operators. , 2013, , .		0
137	Aggregation of Incomplete Qualitative Information. Advances in Intelligent Systems and Computing, 2013, , 495-506.	0.5	0
138	Coimplications in the set of discrete fuzzy numbers. , 2013, , .		0
139	N-contrapositivisation of fuzzy implication functions. , 0, , .		0
140	On the Aggregation of Zadehâ€™s Z-Numbers Based on Discrete Fuzzy Numbers. Advances in Intelligent Systems and Computing, 2018, , 118-129.	0.5	0