

# Erich Peter Klement

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3379324/publications.pdf>

Version: 2024-02-01

131  
papers

5,526  
citations

117453

34  
h-index

82410

72  
g-index

144  
all docs

144  
docs citations

144  
times ranked

1776  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ordinal sums: From triangular norms to bi- and multivariate copulas. Fuzzy Sets and Systems, 2022, 451, 28-64.	1.6	5
2	The impact on the properties of the EFGM copulas when extending this family. Fuzzy Sets and Systems, 2021, 415, 1-26.	1.6	9
3	Generalizing expected values to the case of $L^*$ -fuzzy events. International Journal of General Systems, 2021, 50, 36-62.	1.2	1
4	Polynomial bivariate copulas of degree five: characterization and some particular inequalities. Dependence Modeling, 2021, 9, 13-42.	0.2	6
5	New results on perturbation-based copulas. Dependence Modeling, 2021, 9, 347-373.	0.2	3
6	The key role of convexity in some copula constructions. European Journal of Mathematics, 2020, 6, 533-560.	0.2	7
7	Intervals and More: Aggregation Functions for Picture Fuzzy Sets. Studies in Computational Intelligence, 2020, , 179-194.	0.7	0
8	Extremal Lipschitz continuous aggregation functions with a given diagonal section. Fuzzy Sets and Systems, 2018, 346, 147-167.	1.6	6
9	A note on a generalized Frank functional equation. Fuzzy Sets and Systems, 2018, 335, 48-54.	1.6	1
10	L-Fuzzy Sets and Isomorphic Lattices: Are All the "New" Results Really New? Mathematics, 2018, 6, 146.	1.1	13
11	Picture fuzzy sets and 3-fuzzy sets. , 2018, , .		7
12	Characterizations of bivariate conic, extreme value, and Archimax copulas. Dependence Modeling, 2017, 5, 45-58.	0.2	3
13	Ordinal sums of binary conjunctive operations based on the product. Publicationes Mathematicae, 2017, 91, 63-80.	0.1	6
14	On the role of ultramodularity and Schur concavity in the construction of binary copulas. Journal of Mathematical Inequalities, 2017, , 361-381.	0.5	8
15	On the role of ultramodularity and Schur concavity in the construction of binary copulas. Journal of Mathematical Inequalities, 2017, , 361-381.	0.5	3
16	Siegfried Gottwald (1943–2015) Obituary. Fuzzy Sets and Systems, 2016, 298, 251-253.	1.6	0
17	Fault detection in reciprocating compressor valves under varying load conditions. Mechanical Systems and Signal Processing, 2016, 70-71, 104-119.	4.4	67
18	On the Expected Value of Fuzzy Events. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2015, 23, 57-74.	0.9	8

#	ARTICLE	IF	CITATIONS
19	Detecting cracks in reciprocating compressor valves using pattern recognition in the pV diagram. Pattern Analysis and Applications, 2015, 18, 461-472.	3.1	18
20	Convergence theorems for monotone measures. Fuzzy Sets and Systems, 2015, 281, 103-127.	1.6	45
21	Integrals based on monotone set functions. Fuzzy Sets and Systems, 2015, 281, 88-102.	1.6	61
22	Performance comparison of generational and steady-state asynchronous multi-objective evolutionary algorithms for computationally-intensive problems. Knowledge-Based Systems, 2015, 87, 47-60.	4.0	30
23	DECMO2: a robust hybrid and adaptive multi-objective evolutionary algorithm. Soft Computing, 2015, 19, 3551-3569.	2.1	48
24	Ultramodularity and copulas. Rocky Mountain Journal of Mathematics, 2014, 44, .	0.2	15
25	On the robustness of fault detection in reciprocating compressor valves. , 2014, , .		1
26	Universal integrals based on copulas. Fuzzy Optimization and Decision Making, 2014, 13, 273-286.	3.4	51
27	An Effective Ensemble-Based Method for Creating On-the-Fly Surrogate Fitness Functions for Multi-objective Evolutionary Algorithms. , 2013, , .		5
28	Machine learning based analysis of gender differences in visual inspection decision making. Information Sciences, 2013, 224, 62-76.	4.0	22
29	Hybridization of multi-objective evolutionary algorithms and artificial neural networks for optimizing the performance of electrical drives. Engineering Applications of Artificial Intelligence, 2013, 26, 1781-1794.	4.3	74
30	Decision theory: Qualitative and quantitative approaches. Fuzzy Sets and Systems, 2013, 216, 1-2.	1.6	0
31	A generalization of universal integrals by means of level dependent capacities. Knowledge-Based Systems, 2013, 38, 14-18.	4.0	10
32	Detecting Broken Reciprocating Compressor Valves in pV Diagrams of Different Valve Types. , 2013, , .		2
33	Copula-based universal integrals. , 2013, , .		0
34	Detecting broken reciprocating compressor valves in the pV diagram. , 2013, , .		11
35	A Hybrid Soft Computing Approach for Optimizing Design Parameters of Electrical Drives. Advances in Intelligent Systems and Computing, 2013, , 347-358.	0.5	17
36	On the Performance of Master-Slave Parallelization Methods for Multi-Objective Evolutionary Algorithms. Lecture Notes in Computer Science, 2013, , 122-134.	1.0	15

#	ARTICLE	IF	CITATIONS
37	Efficient Multi-Objective Optimization Using 2-Population Cooperative Coevolution. Lecture Notes in Computer Science, 2013, , 251-258.	1.0	8
38	Evaluation of structural change and local strain distribution in polymers comparatively imaged by FFSA and OCT techniques. EXPRESS Polymer Letters, 2012, 6, 249-256.	1.1	9
39	A concept of universal fuzzy integrals. , 2012, , .		1
40	Detecting Cracks in Reciprocating Compressor Valves Using Pattern Recognition in Frequency Space. , 2012, , .		1
41	Discrete Integrals and Axiomatically Defined Functionals. Axioms, 2012, 1, 9-20.	0.9	17
42	Cross-migrative triangular norms. International Journal of Intelligent Systems, 2012, 27, 411-428.	3.3	17
43	On the axiomatization of some classes of discrete universal integrals. Knowledge-Based Systems, 2012, 28, 13-18.	4.0	11
44	Copula-Based Integration of Vector-Valued Functions. Communications in Computer and Information Science, 2012, , 559-564.	0.4	0
45	Ultramodular aggregation functions. Information Sciences, 2011, 181, 4101-4111.	4.0	29
46	Identifying static and dynamic prediction models for NOx emissions with evolving fuzzy systems. Applied Soft Computing Journal, 2011, 11, 2487-2500.	4.1	53
47	Decision Tree-based Analysis Suggests Structural Gender Differences in Visual Inspection. , 2011, , .		0
48	Integral-Based Modifications of OWA-Operators. Advances in Intelligent and Soft Computing, 2011, , 325-331.	0.2	0
49	Measures of non-exchangeability for bivariate random vectors. Statistical Papers, 2010, 51, 687-699.	0.7	37
50	Fuzzy logics with an additional involutive negation. Fuzzy Sets and Systems, 2010, 161, 390-411.	1.6	32
51	Selected papers from FSTA 2008, the Ninth International Conference on Fuzzy Setsâ€™ Theory and Applications. Fuzzy Sets and Systems, 2010, 161, 147-148.	1.6	0
52	LIPSCHITZ CONTINUITY OF DISCRETE UNIVERSAL INTEGRALS BASED ON COPULAS. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2010, 18, 39-52.	0.9	10
53	A Nonlinear Integral Which Generalizes Both the Choquet and the Sugeno Integral. Advances in Intelligent and Soft Computing, 2010, , 39-52.	0.2	0
54	Data-Driven Design of Takagi-Sugeno Fuzzy Systems for Predicting NOx Emissions. Communications in Computer and Information Science, 2010, , 1-10.	0.4	5

#	ARTICLE	IF	CITATIONS
55	A Universal Integral as Common Frame for Choquet and Sugeno Integral. IEEE Transactions on Fuzzy Systems, 2010, 18, 178-187.	6.5	296
56	Microarray Analysis at Single-Molecule Resolution. IEEE Transactions on Nanobioscience, 2010, 9, 51-58.	2.2	11
57	Classifier-based analysis of visual inspection: Gender differences in decision-making. , 2010, , .		1
58	Data-Driven and Knowledge-Based Modeling. , 2010, , 237-279.		0
59	A concept of universal integral based on measures of level sets. , 2009, , .		3
60	On extensions of triangular norms on bounded lattices. Indagationes Mathematicae, 2008, 19, 135-150.	0.2	61
61	Bounds for Trivariate Copulas with Given Bivariate Marginals. Journal of Inequalities and Applications, 2008, 2008, 161537.	0.5	15
62	Copulas Constructed from Horizontal Sections. Communications in Statistics - Theory and Methods, 2007, 36, 2901-2911.	0.6	37
63	Conjunctors and their Residual Implicators: Characterizations and Construction Methods. Mediterranean Journal of Mathematics, 2007, 4, 343-356.	0.4	120
64	Intervals of 1-Lipschitz aggregation operators, quasi-copulas, and copulas with given affine section. Monatshefte Fur Mathematik, 2007, 152, 151-167.	0.5	30
65	Tracking fluorescent spots in wide-field microscopy images. , 2006, , .		0
66	Residuated logics based on strict triangular norms with an involutive negation. Mathematical Logic Quarterly, 2006, 52, 269-282.	0.2	23
67	Separated Antecedent and Consequent Learning for Takagi-Sugeno Fuzzy Systems. , 2006, , .		8
68	Aggregation of Fuzzy Relations and Preservation of Transitivity. Lecture Notes in Computer Science, 2006, , 185-206.	1.0	0
69	Quantitative analysis of microarray images. , 2005, , .		1
70	Archimedean components of triangular norms. Journal of the Australian Mathematical Society, 2005, 78, 239-255.	0.3	13
71	Archimax copulas and invariance under transformations. Comptes Rendus Mathematique, 2005, 340, 755-758.	0.1	30
72	DIC image reconstruction on large cell scans. Microscopy Research and Technique, 2005, 66, 312-320.	1.2	38

#	ARTICLE	IF	CITATIONS
73	Sufficient triangular norms in many-valued logics with standard negation. <i>Archive for Mathematical Logic</i> , 2005, 44, 829-849.	0.2	5
74	Triangular norms: Basic notions and properties. , 2005, , 17-60.		29
75	DIFFERENT TYPES OF CONTINUITY OF TRIANGULAR NORMS REVISITED. <i>New Mathematics and Natural Computation</i> , 2005, 01, 195-211.	0.4	9
76	Semigroups and triangular norms. , 2005, , 63-93.		7
77	Fault Detection in Engine Measurement Systems by a Model-Based Approach. , 2004, ,		2
78	Triangular norms. Position paper I: basic analytical and algebraic properties. <i>Fuzzy Sets and Systems</i> , 2004, 143, 5-26.	1.6	268
79	Problems on triangular norms and related operators. <i>Fuzzy Sets and Systems</i> , 2004, 145, 471-479.	1.6	34
80	Triangular norms. Position paper III: continuous t-norms. <i>Fuzzy Sets and Systems</i> , 2004, 145, 439-454.	1.6	80
81	Triangular norms. Position paper II: general constructions and parameterized families. <i>Fuzzy Sets and Systems</i> , 2004, 145, 411-438.	1.6	120
82	Measure-based aggregation operators. <i>Fuzzy Sets and Systems</i> , 2004, 142, 3-14.	1.6	57
83	Transformations of Copulas and Quasi-Copulas. , 2004, , 181-188.		2
84	1-Lipschitz Aggregation Operators, Quasi-Copulas and Copulas with Given Diagonals. , 2004, , 205-211.		7
85	A Comparison of Variable Selection Methods with the Main Focus on Orthogonalization. , 2004, , 479-486.		6
86	FS-FOIL: an inductive learning method for extracting interpretable fuzzy descriptions. <i>International Journal of Approximate Reasoning</i> , 2003, 32, 131-152.	1.9	37
87	Triangular Norm-Based Measures. , 2002, , 947-1010.		6
88	Triangular norms as ordinal sums of semigroups in the sense of A. H. Clifford. <i>Semigroup Forum</i> , 2002, 65, 71-82.	0.3	36
89	On the order of triangular normsâ€”comments on â€œA triangular norm hierarchyâ€”by E. Cretu. <i>Fuzzy Sets and Systems</i> , 2002, 131, 409-413.	1.6	6
90	Uniform approximation of associative copulas by strict and non-strict copulas. <i>Illinois Journal of Mathematics</i> , 2001, 45, .	0.1	20

#	ARTICLE	IF	CITATIONS
91	INTEGRATION WITH RESPECT TO DECOMPOSABLE MEASURES, BASED ON A CONDITIONALLY DISTRIBUTIVE SEMIRING ON THE UNIT INTERVAL. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2000, 08, 701-717.	0.9	50
92	Triangular Norms. Trends in Logic, 2000, , .	0.2	1,849
93	ARE FUZZY SYSTEMS UNIVERSAL APPROXIMATORS?. International Journal of General Systems, 1999, 28, 259-282.	1.2	61
94	A survey on different triangular norm-based fuzzy logics. Fuzzy Sets and Systems, 1999, 101, 241-251.	1.6	98
95	Quasi- and pseudo-inverses of monotone functions, and the construction of t-norms. Fuzzy Sets and Systems, 1999, 104, 3-13.	1.6	86
96	Convex combinations in terms of triangular norms: A characterization of idempotent, bisymmetrical and self-dual compensatory operators. Fuzzy Sets and Systems, 1999, 104, 97-108.	1.6	11
97	Propositional Fuzzy Logics Based on Frank T-Norms: A Comparison. Applied Logic Series, 1999, , 17-38.	0.3	10
98	<title>New approach for motion coordination of a mobile manipulator using fuzzy behavioral algorithms</title>. , 1998, , .		0
99	A characterization of tribes with respect to the $\dot{A}$ ukasiewicz t-norm. Czechoslovak Mathematical Journal, 1997, 47, 689-700.	0.3	18
100	On the redundancy of fuzzy partitions. Fuzzy Sets and Systems, 1997, 85, 195-201.	1.6	15
101	Some mathematical aspects of fuzzy sets: Triangular norms, fuzzy logics, and generalized measures. Fuzzy Sets and Systems, 1997, 90, 133-140.	1.6	20
102	A characterization of the ordering of continuous t-norms. Fuzzy Sets and Systems, 1997, 86, 189-195.	1.6	36
103	Core, value and equilibria for market games: On a problem of Aumann and Shapley. International Journal of Game Theory, 1996, 25, 149-160.	0.5	4
104	WAI'96: II Workshop on Computer Arithmetic, Interval and Symbolic Computation. Reliable Computing, 1996, 2, 391-401.	0.8	0
105	ON THE RELATIONSHIP OF ASSOCIATIVE COMPENSATORY OPERATORS TO TRIANGULAR NORMS AND CONORMS. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 1996, 04, 129-144.	0.9	141
106	On triangular norm-based propositional fuzzy logics. Fuzzy Sets and Systems, 1995, 69, 241-255.	1.6	48
107	An integral representation for decomposable measures of measurable functions. Aequationes Mathematicae, 1994, 47, 255-262.	0.4	8
108	Interpolation and Approximation of Real Input-Output Functions Using Fuzzy Rule Bases. , 1994, , 245-254.		4

#	ARTICLE	IF	CITATIONS
109	Triangular Norm-Based Measures and Games with Fuzzy Coalitions. Theory and Decision Library Series C, Game Theory, Mathematical Programming and Operations Research, 1993, , .	0.2	161
110	Triangular Norms and Some Applications to Measure and Game Theory. , 1992, , 89-105.		1
111	Triangular norm-based measures and their Markov kernel representation. Journal of Mathematical Analysis and Applications, 1991, 162, 111-143.	0.5	66
112	Categorical foundations, fuzzy topology, fuzzy measures, and mathematical applications of fuzzy sets. Fuzzy Sets and Systems, 1991, 42, 1-2.	1.6	2
113	Generalized measures. Fuzzy Sets and Systems, 1991, 40, 375-394.	1.6	58
114	Open letter to the readers of FFS. Fuzzy Sets and Systems, 1989, 29, 394-395.	1.6	1
115	A Radon-Nikodyn theorem for fuzzy-valued measures. Fuzzy Sets and Systems, 1988, 27, 45-51.	1.6	4
116	Tenth international seminar on fuzzy set theory. Fuzzy Sets and Systems, 1988, 27, 252.	1.6	0
117	Plausibility Measures " A General Framework for Possibility and Fuzzy Probability Measures. , 1984, , 31-50.		7
118	Nonlinearity of the fuzzy integral. Fuzzy Sets and Systems, 1983, 11, 309-315.	1.6	27
119	Fuzzy measures assuming their values in the set of fuzzy numbers. Journal of Mathematical Analysis and Applications, 1983, 93, 312-323.	0.5	17
120	Construction of Fuzzy $\tilde{L}f$ -algebras using triangular norms. Journal of Mathematical Analysis and Applications, 1982, 85, 543-565.	0.5	115
121	Some remarks on a paper by R. R. Yager. Information Sciences, 1982, 27, 211-220.	4.0	13
122	Operations on fuzzy sets"an axiomatic approach. Information Sciences, 1982, 27, 221-232.	4.0	36
123	Correspondence between fuzzy measures and classical measures. Fuzzy Sets and Systems, 1982, 7, 57-70.	1.6	16
124	Characterization of fuzzy measures constructed by means of triangular norms. Journal of Mathematical Analysis and Applications, 1982, 86, 345-358.	0.5	70
125	Fuzzy probability measures. Fuzzy Sets and Systems, 1981, 5, 21-30.	1.6	75
126	Characterization of finite fuzzy measures using Markoff-kernels. Journal of Mathematical Analysis and Applications, 1980, 75, 330-339.	0.5	46



#	ARTICLE	IF	CITATIONS
127	Fuzzy $\tilde{I}f$ -algebras and fuzzy measurable functions. Fuzzy Sets and Systems, 1980, 4, 83-93.	1.6	102
128	Premise parameter estimation and adaptation in fuzzy systems with open-loop clustering methods. , 0, , .		2
129	Two Approaches to Data-Driven Design of Evolving Fuzzy Systems: eTS and FLEXFIS. , 0, , .		12
130	Logical Connectives for Granular Computing. , 0, , 205-224.		2
131	Defects and transformations of quasi-copulas. Kybernetika, 0, , 848-865.	0.0	0