Bernard De Baets

List of Publications by Citations

703 papers	14,969 citations	58 h-index	94 g-index
751 ext. papers	17,340 ext. citations	4.2 avg, IF	6.95 L-index

#	Paper	IF	Citations
703	Genome analysis of the smallest free-living eukaryote Ostreococcus tauri unveils many unique features. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 11647-52	11.5	669
702	Present limitations and future prospects of stable isotope methods for nitrate source identification in surface- and groundwater. *Water Research*, **2009**, 43, 1159-70	12.5	484
701	A Historical Account of Types of Fuzzy Sets and Their Relationships. *IEEE Transactions on Fuzzy Systems*, **2016**, 24, 179-194	8.3	285
700	The functional equations of Frank and Alsina for uninorms and nullnorms. *Fuzzy Sets and Systems*, **2001**, 120, 385-394	3.7	249
699	Random forests as a tool for ecohydrological distribution modelling. *Ecological Modelling*, **2007**, 207, 304-318	3	241
698	Fuzzy rule-based models for decision support in ecosystem management. *Science of the Total Environment*, **2004**, 319, 1-12	10.2	209
697	Idempotent uninorms. *European Journal of Operational Research*, **1999**, 118, 631-642	5.6	178
696	Triangular norms on product lattices. *Fuzzy Sets and Systems*, **1999**, 104, 61-75	3.7	177
695	A sub-pixel mapping algorithm based on sub-pixel/pixel spatial attraction models. *International Journal of Remote Sensing*, **2006**, 27, 3293-3310	3.1	175
694	Multivariate return periods in hydrology: a critical and practical review focusing on synthetic design hydrograph estimation. *Hydrology and Earth System Sciences*, **2013**, 17, 1281-1296	5.5	174
693	Use of a Bayesian isotope mixing model to estimate proportional contributions of multiple nitrate sources in surface water. *Environmental Pollution*, **2012**, 161, 43-9	9.3	160
692	Fast and accurate center of gravity defuzzification of fuzzy system outputs defined on trapezoidal fuzzy partitions. *Fuzzy Sets and Systems*, **2006**, 157, 904-918	3.7	154
691	Bacterial species identification from MALDI-TOF mass spectra through data analysis and machine learning. *Systematic and Applied Microbiology*, **2011**, 34, 20-9	4.2	139
690	Residual operators of uninorms. *Soft Computing*, **1999**, 3, 89-100	3.5	139
689	Cyclic Evaluation of Transitivity of Reciprocal Relations. *Social Choice and Welfare*, **2006**, 26, 217-238	0.7	133
688	Mobile monitoring for mapping spatial variation in urban air quality: Development and validation of a methodology based on an extensive dataset. *Atmospheric Environment*, **2015**, 105, 148-161	5.3	117
687	A comparative study of similarity measures. *Fuzzy Sets and Systems*, **1995**, 73, 259-268	3.7	115

686	Accurate particle size distribution determination by nanoparticle tracking analysis based on 2-D Brownian dynamics simulation. *Journal of Colloid and Interface Science*, **2010**, 352, 593-600	9.3	108
685	Quantitative error measures for edge detection. *Pattern Recognition*, **2013**, 46, 1125-1139	7.7	105
684	Transitivity frameworks for reciprocal relations: cycle-transitivity versus -transitivity. *Fuzzy Sets and Systems*, **2005**, 152, 249-270	3.7	104
683	Comparison of data-driven Takagi–Sugeno models of rainfall–discharge dynamics. *Journal of Hydrology*, **2005**, 302, 173-186	6	103
682	T-partitions. *Fuzzy Sets and Systems*, **1998**, 97, 211-223	3.7	97
681	Ecological relevance of performance criteria for species distribution models. *Ecological Modelling*, **2010**, 221, 1995-2002	3	95
680	Habitat prediction and knowledge extraction for spawning European grayling (Thymallus thymallus L.) using a broad range of species distribution models. *Environmental Modelling and Software*, **2013**, 47, 1-6	5.2	91
679	Knowledge-based versus data-driven fuzzy habitat suitability models for river management. *Environmental Modelling and Software*, **2009**, 24, 982-993	5.2	89
678	THE FUNDAMENTALS OF FUZZY MATHEMATICAL MORPHOLOGY PART 1: BASIC CONCEPTS. *International Journal of General Systems*, **1995**, 23, 155-171	2.1	88
677	Effect of granule size on autotrophic nitrogen removal in a granular sludge reactor. *Environmental Technology (United Kingdom)*, **2010**, 31, 1271-80	2.6	87
676	Dietary species richness as a measure of food biodiversity and nutritional quality of diets. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 127-132	11.5	86
675	A comparative copula-based bivariate frequency analysis of observed and simulated storm events: A case study on Bartlett-Lewis modeled rainfall. *Water Resources Research*, **2011**, 47,	5.4	86
674	Characterizable fuzzy preference structures. *Annals of Operations Research*, **1998**, 80, 105-136	3.2	82
673	Metrics and T-Equalities. *Journal of Mathematical Analysis and Applications*, **2002**, 267, 531-547	1.1	82
672	Fitting bivariate copulas to the dependence structure between storm characteristics: A detailed analysis based on 105 year 10 min rainfall. *Water Resources Research*, **2010**, 46,	5.4	80
671	An experimental comparison of cross-validation techniques for estimating the area under the ROC curve. *Computational Statistics and Data Analysis*, **2011**, 55, 1828-1844	1.6	80
670	Analytical Solution Methods for Fuzzy Relational Equations. *The Handbooks of Fuzzy Sets Series*, **2000**, 291-340		80
669	Construction of Interval-Valued Fuzzy Relations With Application to the Generation of Fuzzy Edge Images. *IEEE Transactions on Fuzzy Systems*, **2011**, 19, 819-830	8.3	79

668	Random Forests as a tool for estimating uncertainty at pixel-level in SAR image classification. *International Journal of Applied Earth Observation and Geoinformation*, **2012**, 19, 173-184	7.3	78
667	Data-driven fuzzy habitat suitability models for brown trout in Spanish Mediterranean rivers. *Environmental Modelling and Software*, **2011**, 26, 615-622	5.2	78
666	Ecological Diversity: Measuring the Unmeasurable. *Mathematics*, **2018**, 6, 119	2.3	78
665	ROC analysis in ordinal regression learning. *Pattern Recognition Letters*, **2008**, 29, 1-9	4.7	77
664	Feature subset selection for splice site prediction. *Bioinformatics*, **2002**, 18 Suppl 2, S75-83	7.2	77
663	The granule size distribution in an anammox-based granular sludge reactor affects the conversion--implications for modeling. *Biotechnology and Bioengineering*, **2012**, 109, 1629-36	4.9	76
662	SpliceMachine: predicting splice sites from high-dimensional local context representations. *Bioinformatics*, **2005**, 21, 1332-8	7.2	76
661	A single-point characterization of representable uninorms. *Fuzzy Sets and Systems*, **2012**, 202, 89-99	3.7	75
660	. *IEEE Transactions on Geoscience and Remote Sensing*, **2012**, 50, 4185-4200	8.1	72
659	A gravitational approach to edge detection based on triangular norms. *Pattern Recognition*, **2010**, 43, 3730-3741	7.7	71
658	Fuzzy rule-based macroinvertebrate habitat suitability models for running waters. *Ecological Modelling*, **2006**, 198, 71-84	3	71
657	The potential of multitemporal Aqua and Terra MODIS apparent thermal inertia as a soil moisture indicator. *International Journal of Applied Earth Observation and Geoinformation*, **2011**, 13, 934-941	7.3	70
656	Transitivity Bounds in Additive Fuzzy Preference Structures. *IEEE Transactions on Fuzzy Systems*, **2007**, 15, 275-286	8.3	70
655	Only Smooth Rule Bases Can Generate Monotone Mamdani Assilian Models Under Center-of-Gravity Defuzzification. *IEEE Transactions on Fuzzy Systems*, **2009**, 17, 1157-1174	8.3	69
654	Fuzzy transforms of monotone functions with application to image compression. *Information Sciences*, **2010**, 180, 3304-3315	7.7	69
653	Van Melle's combining function in MYCIN is a representable uninorm: An alternative proof. *Fuzzy Sets and Systems*, **1999**, 104, 133-136	3.7	69
652	EQ-algebras. *Fuzzy Sets and Systems*, **2009**, 160, 2956-2978	3.7	68
651	Cyclist exposure to UFP and BC on urban routes in Antwerp, Belgium. *Atmospheric Environment*, **2014**, 92, 31-43	5.3	65

650	Multiscale edge detection based on Gaussian smoothing and edge tracking. *Knowledge-Based Systems*, **2013**, 44, 101-111	7.3	63
649	Fuzzy preference structures without incomparability. *Fuzzy Sets and Systems*, **1995**, 76, 333-348	3.7	62
648	A compendium of fuzzy weak orders: Representations and constructions. *Fuzzy Sets and Systems*, **2007**, 158, 811-829	3.7	61
647	On the Cycle-Transitivity of the Dice Model. *Theory and Decision*, **2003**, 54, 261-285	0.8	61
646	Error in Radar-Derived Soil Moisture due to Roughness Parameterization: An Analysis Based on Synthetical Surface Profiles. *Sensors*, **2009**, 9, 1067-93	3.8	59
645	Microbiological, chemical and sensory spoilage analysis of raw Atlantic cod (Gadus morhua) stored under modified atmospheres. *Food Microbiology*, **2018**, 70, 232-244	6	58
644	Effective roughness modelling as a tool for soil moisture retrieval from C- and L-band SAR. *Hydrology and Earth System Sciences*, **2011**, 15, 151-162	5.5	57
643	Multi-criteria analysis of wastewater treatment plant design and control scenarios under uncertainty. *Environmental Modelling and Software*, **2010**, 25, 616-621	5.2	57
642	Modelling the degradation kinetics of vitamin C in fruit juice in relation to the initial headspace oxygen concentration. *Food Chemistry*, **2012**, 134, 207-214	8.5	56
641	Copula-based downscaling of spatial rainfall: a proof of concept. *Hydrology and Earth System Sciences*, **2011**, 15, 1445-1457	5.5	56
640	Fuzzy relational compositions. *Fuzzy Sets and Systems*, **1993**, 60, 109-120	3.7	55
639	A review of the relationships between implication, negation and aggregation functions from the point of view of material implication. *Information Sciences*, **2016**, 329, 357-380	7.7	54
638	Influence of sampling strategies on the estimated nitrous oxide emission from wastewater treatment plants. *Water Research*, **2013**, 47, 3120-30	12.5	54
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635	Identifiability analysis and improvement of a tree water flow and storage model. *Mathematical Biosciences*, **2008**, 211, 314-32	3.9	52
634	Effect of lactation stage on the odd- and branched-chain milk fatty acids of dairy cattle under grazing and indoor conditions. *Journal of Dairy Science*, **2008**, 91, 2662-77	4	52
633	Support vector machine regression for the prediction of maize hybrid performance. *Theoretical and Applied Genetics*, **2007**, 115, 1003-13	6	52

632	A class of rational cardinality-based similarity measures. *Journal of Computational and Applied Mathematics*, **2001**, 132, 51-69	2.4	52
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629	Orthogonal Grid Constructions of Copulas. *IEEE Transactions on Fuzzy Systems*, **2007**, 15, 1053-1062	8.3	51
628	Cycle-transitive comparison of independent random variables. *Journal of Multivariate Analysis*, **2005**, 96, 352-373	1.4	51
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626	A probabilistic framework for the design of instance-based supervised ranking algorithms in an ordinal setting. *Annals of Operations Research*, **2008**, 163, 115-142	3.2	50
625	Prediction of specialty coffee cup quality based on near infrared spectra of green coffee beans. *Talanta*, **2016**, 150, 367-74	6.2	47
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623	On the transitivity of a parametric family of cardinality-based similarity measures. *International Journal of Approximate Reasoning*, **2009**, 50, 104-116	3.6	47
622	A class of aggregation functions encompassing two-dimensional OWA operators. *Information Sciences*, **2010**, 180, 1977-1989	7.7	47
621	On the existence and construction of T-transitive closures. *Information Sciences*, **2003**, 152, 167-179	7.7	47
620	Effect of induction of subacute ruminal acidosis on milk fat profile and rumen parameters. *Journal of Dairy Science*, **2010**, 93, 4759-73	4	46
619	Bell-type inequalities for quasi-copulas. *Fuzzy Sets and Systems*, **2004**, 148, 263-278	3.7	46
618	A stochastic design rainfall generator based on copulas and mass curves. *Hydrology and Earth System Sciences*, **2010**, 14, 2429-2442	5.5	45
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611	On the cycle-transitive comparison of artificially coupled random variables. *International Journal of Approximate Reasoning*, **2008**, 47, 306-322	3.6	43
610	Accounting for image uncertainty in SAR-based flood mapping. *International Journal of Applied Earth Observation and Geoinformation*, **2015**, 34, 70-77	7.3	42
609	Supervised distance metric learning through maximization of the Jeffrey divergence. *Pattern Recognition*, **2017**, 64, 215-225	7.7	42
608	Analytical and numerical solutions of fuzzy differential equations. *Information Sciences*, **2013**, 236, 156-167	7.7	42
607	Effect of model formulation on the optimization of a genetic Takagi–Sugeno fuzzy system for fish habitat suitability evaluation. *Ecological Modelling*, **2011**, 222, 1401-1413	3	42
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603	THE FUNDAMENTALS OF FUZZY MATHEMATICAL MORPHOLOGY PART 2: IDEMPOTENCE, CONVEXITY AND DECOMPOSITION. *International Journal of General Systems*, **1995**, 23, 307-322	2.1	41
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601	Prevalence-adjusted optimisation of fuzzy models for species distribution. *Ecological Modelling*, **2009**, 220, 1776-1786	3	40
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599	Opportunistic mobile air pollution monitoring: A case study with city wardens in Antwerp. *Atmospheric Environment*, **2016**, 141, 408-421	5.3	39
598	Linear optimization with bipolar max–min constraints. *Information Sciences*, **2013**, 234, 3-15	7.7	39
597	A continuous rainfall model based on vine copulas. *Hydrology and Earth System Sciences*, **2015**, 19, 2685-2699	3.9	39

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592	On the structure of left-continuous t-norms that have a continuous contour line. *Fuzzy Sets and Systems*, **2007**, 158, 843-860	3.7	36
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583	Meta-theorems on inequalities for scalar fuzzy set cardinalities. *Fuzzy Sets and Systems*, **2006**, 157, 1463-1476	3.7	34
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581	Transitivity-preserving fuzzification schemes for cardinality-based similarity measures. *European Journal of Operational Research*, **2005**, 160, 726-740	5.6	34
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579	Modelling the electro-osmotically enhanced pressure dewatering of activated sludge. *Chemical Engineering Science*, **2007**, 62, 2267-2276	4.4	33

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571	Classification of Nitrate Polluting Activities through Clustering of Isotope Mixing Model Outputs. *Journal of Environmental Quality*, **2013**, 42, 1486-97	3.4	30
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564	On the impact of anisotropic diffusion on edge detection. *Pattern Recognition*, **2014**, 47, 270-281	7.7	28
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558	Phenomenological study of irregular cellular automata based on Lyapunov exponents and Jacobians. *Chaos*, **2010**, 20, 033112	3.3	27
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556	Prediction of maize single-cross hybrid performance: support vector machine regression versus best linear prediction. *Theoretical and Applied Genetics*, **2010**, 120, 415-27	6	27
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