

# Gert de Cooman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2619046/publications.pdf>

Version: 2024-02-01

88  
papers

1,666  
citations

257357

24  
h-index

315616

38  
g-index

98  
all docs

98  
docs citations

98  
times ranked

383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Randomness is inherently imprecise. <i>International Journal of Approximate Reasoning</i> , 2022, 141, 28-68.	1.9	4
2	Imprecise Discrete-Time Markov Chains. <i>SpringerBriefs in Statistics</i> , 2022, , 51-65.	0.3	0
3	A particular upper expectation as global belief model for discrete-time finite-state uncertain processes. <i>International Journal of Approximate Reasoning</i> , 2021, 131, 30-55.	1.9	7
4	Game-theoretic upper expectations for discrete-time finite-state uncertain processes. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 504, 125399.	0.5	1
5	Coherent and Archimedean choice in general Banach spaces. <i>International Journal of Approximate Reasoning</i> , 2021, 140, 255-255.	1.9	2
6	A Robust Dynamic Classifier Selection Approach for Hyperspectral Images with Imprecise Label Information. <i>Sensors</i> , 2020, 20, 5262.	2.1	15
7	Inference with Choice Functions Made Practical. <i>Lecture Notes in Computer Science</i> , 2020, , 113-127.	1.0	1
8	Coherent and Archimedean Choice in General Banach Spaces. <i>Communications in Computer and Information Science</i> , 2020, , 180-194.	0.4	0
9	Optimal control of a linear system subject to partially specified input noise. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 3892-3914.	2.1	3
10	Coherent choice functions, desirability and indifference. <i>Fuzzy Sets and Systems</i> , 2018, 341, 1-36.	1.6	10
11	A behavioural justification for using sensitivity analysis in imprecise multinomial processes. <i>Journal of Mathematical Analysis and Applications</i> , 2018, 468, 513-546.	0.5	1
12	Exchangeable choice functions. <i>International Journal of Approximate Reasoning</i> , 2018, 100, 85-104.	1.9	5
13	Lexicographic choice functions. <i>International Journal of Approximate Reasoning</i> , 2018, 92, 97-119.	1.9	9
14	Natural Extension of Choice Functions. <i>Communications in Computer and Information Science</i> , 2018, , 201-213.	0.4	1
15	Computing lower and upper expected first-passage and return times in imprecise birth-death chains. <i>International Journal of Approximate Reasoning</i> , 2017, 80, 137-173.	1.9	1
16	Lexicographic Choice Functions Without Archimedeanicity. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 479-486.	0.5	1
17	Imprecise stochastic processes in discrete time: global models, imprecise Markov chains, and ergodic theorems. <i>International Journal of Approximate Reasoning</i> , 2016, 76, 18-46.	1.9	21
18	Robust queueing theory: an initial study using imprecise probabilities. <i>Queueing Systems</i> , 2016, 82, 75-101.	0.6	7

#	ARTICLE	IF	CITATIONS
19	Representation theorems for partially exchangeable random variables. Fuzzy Sets and Systems, 2016, 284, 1-30.	1.6	6
20	Accept & reject statement-based uncertainty models. International Journal of Approximate Reasoning, 2015, 57, 69-102.	1.9	15
21	Conditioning, updating and lower probability zero. International Journal of Approximate Reasoning, 2015, 67, 1-36.	1.9	9
22	Credal networks under epistemic irrelevance: The sets of desirable gambles approach. International Journal of Approximate Reasoning, 2015, 56, 178-207.	1.9	16
23	Extreme lower previsions. Journal of Mathematical Analysis and Applications, 2015, 421, 1042-1080.	0.5	4
24	Predictive Inference Under Exchangeability, and the Imprecise Dirichlet Multinomial Model. Springer Proceedings in Mathematics and Statistics, 2015, , 13-33.	0.1	0
25	Lower previsions induced by filter maps. Journal of Mathematical Analysis and Applications, 2014, 410, 101-116.	0.5	4
26	Extreme Lower Previsions and Minkowski Indecomposability. Lecture Notes in Computer Science, 2013, , 157-168.	1.0	1
27	Constrained optimization problems under uncertainty with coherent lower previsions. Fuzzy Sets and Systems, 2012, 206, 74-88.	1.6	10
28	Conglomerable natural extension. International Journal of Approximate Reasoning, 2012, 53, 1200-1227.	1.9	25
29	Exchangeability and sets of desirable gambles. International Journal of Approximate Reasoning, 2012, 53, 363-395.	1.9	35
30	Characterisation of ergodic upper transition operators. International Journal of Approximate Reasoning, 2012, 53, 573-583.	1.9	12
31	Maximin and Maximal Solutions for Linear Programming Problems with Possibilistic Uncertainty. Communications in Computer and Information Science, 2012, , 430-439.	0.4	5
32	A New Method for Learning Imprecise Hidden Markov Models. Communications in Computer and Information Science, 2012, , 460-469.	0.4	4
33	Lower Previsions Induced by Filter Maps. Communications in Computer and Information Science, 2012, , 440-449.	0.4	0
34	Imprecise Bernoulli Processes. Communications in Computer and Information Science, 2012, , 400-409.	0.4	1
35	Independent natural extension. Artificial Intelligence, 2011, 175, 1911-1950.	3.9	36
36	Epistemic irrelevance in credal nets: The case of imprecise Markov trees. International Journal of Approximate Reasoning, 2010, 51, 1029-1052.	1.9	35

#	ARTICLE	IF	CITATIONS
37	Infinite Exchangeability for Sets of Desirable Gambles. Communications in Computer and Information Science, 2010, , 60-69.	0.4	2
38	Factorisation Properties of the Strong Product. Advances in Intelligent and Soft Computing, 2010, , 139-147.	0.2	1
39	A CONSTRAINED OPTIMIZATION PROBLEM UNDER UNCERTAINTY. , 2010, , .		0
40	IMPRECISE MARKOV CHAINS AND THEIR LIMIT BEHAVIOR. Probability in the Engineering and Informational Sciences, 2009, 23, 597-635.	0.6	64
41	Representation insensitivity in immediate prediction under exchangeability. International Journal of Approximate Reasoning, 2009, 50, 204-216.	1.9	14
42	Learning in games using the imprecise Dirichlet model. International Journal of Approximate Reasoning, 2009, 50, 243-256.	1.9	2
43	Forward irrelevance. Journal of Statistical Planning and Inference, 2009, 139, 256-276.	0.4	11
44	Exchangeable lower previsions. Bernoulli, 2009, 15, .	0.7	12
45	Weak and strong laws of large numbers for coherent lower previsions. Journal of Statistical Planning and Inference, 2008, 138, 2409-2432.	0.4	38
46	A unifying approach to integration for bounded positive charges. Journal of Mathematical Analysis and Applications, 2008, 340, 982-999.	0.5	7
47	n-Monotone exact functionals. Journal of Mathematical Analysis and Applications, 2008, 347, 143-156.	0.5	37
48	Imprecise probability trees: Bridging two theories of imprecise probability. Artificial Intelligence, 2008, 172, 1400-1427.	3.9	51
49	Extreme lower probabilities. Fuzzy Sets and Systems, 2008, 159, 2163-2175.	1.6	14
50	Finitely additive extensions of distribution functions and moment sequences: The coherent lower prevision approach. International Journal of Approximate Reasoning, 2008, 48, 132-155.	1.9	10
51	The F.ÂRiesz Representation Theorem and Finite Additivity. Advances in Soft Computing, 2008, , 243-252.	0.4	3
52	Relating Epistemic Irrelevance to Event Trees. Advances in Soft Computing, 2008, , 66-73.	0.4	3
53	Marginal extension in the theory of coherent lower previsions. International Journal of Approximate Reasoning, 2007, 46, 188-225.	1.9	32
54	The Hausdorff Moment Problem under Finite Additivity. Journal of Theoretical Probability, 2007, 20, 663-693.	0.4	6

#	ARTICLE	IF	CITATIONS
55	Reasoning with Vague Probability Assessments. , 2006, , 5-6.		0
56	Extreme Lower Probabilities. , 2006, , 211-221.		0
57	Lower previsions induced by multi-valued mappings. Journal of Statistical Planning and Inference, 2005, 133, 173-197.	0.4	32
58	A behavioural model for vague probability assessments. Fuzzy Sets and Systems, 2005, 154, 305-358.	1.6	55
59	Further thoughts on possibilistic previsions: A rejoinder. Fuzzy Sets and Systems, 2005, 154, 375-385.	1.6	7
60	Dynamic programming for deterministic discrete-time systems with uncertain gain. International Journal of Approximate Reasoning, 2005, 39, 257-278.	1.9	12
61	Belief models: An order-theoretic investigation. Annals of Mathematics and Artificial Intelligence, 2005, 45, 5-34.	0.9	25
62	Editorial: Imprecise probability perspectives on artificial intelligence. Annals of Mathematics and Artificial Intelligence, 2005, 45, 1-4.	0.9	0
63	Coherent lower previsions in systems modelling: products and aggregation rules. Reliability Engineering and System Safety, 2004, 85, 113-134.	5.1	28
64	Updating beliefs with incomplete observations. Artificial Intelligence, 2004, 159, 75-125.	3.9	58
65	Practical implementation of possibilistic probability mass functions. Soft Computing, 2003, 7, 304-309.	2.1	6
66	Epistemic independence in numerical possibility theory. International Journal of Approximate Reasoning, 2003, 32, 23-42.	1.9	12
67	Extension of coherent lower previsions to unbounded random variables. , 2003, , 277-288.		4
68	Precisionâ€“imprecision equivalence in a broad class of imprecise hierarchical uncertainty models. Journal of Statistical Planning and Inference, 2002, 105, 175-198.	0.4	29
69	A possibilistic hierarchical model for behaviour under uncertainty. Theory and Decision, 2002, 52, 327-374.	0.5	32
70	Lower Previsions for Unbounded Random Variables. Advances in Intelligent and Soft Computing, 2002, , 146-155.	0.2	6
71	Possibility measures and possibility integrals defined on a complete lattice. Fuzzy Sets and Systems, 2001, 120, 459-467.	1.6	6
72	Ample fields as a basis for possibilistic processes. Fuzzy Sets and Systems, 2001, 120, 445-458.	1.6	5

#	ARTICLE	IF	CITATIONS
73	A behavioral model for linguistic uncertainty. <i>Information Sciences</i> , 2001, 134, 1-37.	4.0	78
74	Integration and Conditioning in Numerical Possibility Theory. <i>Annals of Mathematics and Artificial Intelligence</i> , 2001, 32, 87-123.	0.9	29
75	Imprecise probabilities. <i>Risk, Decision and Policy</i> , 2000, 5, 107-109.	0.1	6
76	COHERENCE OF DEMPSTER'S CONDITIONING RULE IN DISCRETE POSSIBILISTIC MARKOV MODELS. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2000, 08, 241-252.	0.9	1
77	A random set description of a possibility measure and its natural extension. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2000, 30, 124-130.	3.4	40
78	A Daniell-Kolmogorov theorem for supremum preserving upper probabilities. <i>Fuzzy Sets and Systems</i> , 1999, 102, 429-444.	1.6	7
79	Coherence of rules for defining conditional possibility. <i>International Journal of Approximate Reasoning</i> , 1999, 21, 63-107.	1.9	35
80	Supremum preserving upper probabilities. <i>Information Sciences</i> , 1999, 118, 173-212.	4.0	100
81	Confidence relations and ordinal information. <i>Information Sciences</i> , 1998, 104, 241-277.	4.0	4
82	The construction of possibility measures from samples on $\mathcal{P}$ -semi-partitions. <i>Information Sciences</i> , 1998, 106, 3-24.	4.0	8
83	POSSIBILITY THEORY I: THE MEASURE- AND INTEGRAL-THEORETIC GROUNDWORK. <i>International Journal of General Systems</i> , 1997, 25, 291-323.	1.2	195
84	POSSIBILITY THEORY II: CONDITIONAL POSSIBILITY. <i>International Journal of General Systems</i> , 1997, 25, 325-351.	1.2	67
85	POSSIBILITY THEORY III: POSSIBILISTIC INDEPENDENCE. <i>International Journal of General Systems</i> , 1997, 25, 353-371.	1.2	65
86	Possibility and necessity integrals. <i>Fuzzy Sets and Systems</i> , 1996, 77, 207-227.	1.6	19
87	Irrelevant and independent natural extension for sets of desirable gambles. <i>Journal of Artificial Intelligence Research</i> , 0, 45, 601-640.	7.0	17
88	Coherent Predictive Inference under Exchangeability with Imprecise Probabilities. <i>Journal of Artificial Intelligence Research</i> , 0, 52, 1-95.	7.0	5