

# Norman E Fenton

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8581166/publications.pdf>

Version: 2024-02-01

154  
papers

7,664  
citations

93792

39  
h-index

81351

76  
g-index

171  
all docs

171  
docs citations

171  
times ranked

4671  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lawmaps: enabling legal AI development through visualisation of the implicit structure of legislation and lawyerly process. <i>Artificial Intelligence and Law</i> , 2023, 31, 169-194.	3.0	3
2	mHealth apps for gestational diabetes mellitus that provide clinical decision support or artificial intelligence: A scoping review. <i>Diabetic Medicine</i> , 2022, 39, e14735.	1.2	17
3	A causal Bayesian network approach for consumer product safety and risk assessment. <i>Journal of Safety Research</i> , 2022, 80, 198-214.	1.7	4
4	Causality, the critical but often ignored component guiding us through a world of uncertainties in risk assessment. <i>Journal of Risk Research</i> , 2021, 24, 617-621.	1.4	4
5	A Study of Using Bethe/Kikuchi Approximation for Learning Directed Graphic Models. <i>IEEE Access</i> , 2021, 9, 125428-125438.	2.6	1
6	Current review and next steps for artificial intelligence in multiple sclerosis risk research. <i>Computers in Biology and Medicine</i> , 2021, 132, 104337.	3.9	10
7	Bayesian networks in healthcare: What is preventing their adoption?. <i>Artificial Intelligence in Medicine</i> , 2021, 116, 102079.	3.8	16
8	A comprehensive scoping review of Bayesian networks in healthcare: Past, present and future. <i>Artificial Intelligence in Medicine</i> , 2021, 117, 102108.	3.8	34
9	Bayesian Hypothesis Testing and Hierarchical Modeling of Ivermectin Effectiveness. <i>American Journal of Therapeutics</i> , 2021, 28, e576-e579.	0.5	6
10	Analyzing the Simonshaven Case Using Bayesian Networks. <i>Topics in Cognitive Science</i> , 2020, 12, 1092-1114.	1.1	9
11	A Bayesian network approach for cybersecurity risk assessment implementing and extending the FAIR model. <i>Computers and Security</i> , 2020, 89, 101659.	4.0	44
12	Learning from Behavioural Changes That Fail. <i>Trends in Cognitive Sciences</i> , 2020, 24, 969-980.	4.0	36
13	Bayesian networks in healthcare: Distribution by medical condition. <i>Artificial Intelligence in Medicine</i> , 2020, 107, 101912.	3.8	87
14	Towards standardisation of evidence-based clinical care process specifications. <i>Health Informatics Journal</i> , 2020, 26, 2512-2537.	1.1	13
15	Bayesian network analysis of Covid-19 data reveals higher infection prevalence rates and lower fatality rates than widely reported. <i>Journal of Risk Research</i> , 2020, 23, 866-879.	1.4	18
16	Dependencies in evidential reports: The case for informational advantages. <i>Cognition</i> , 2020, 204, 104343.	1.1	10
17	Medical idioms for clinical Bayesian network development. <i>Journal of Biomedical Informatics</i> , 2020, 108, 103495.	2.5	25
18	COVID-19 infection and death rates: the need to incorporate causal explanations for the data and avoid bias in testing. <i>Journal of Risk Research</i> , 2020, 23, 862-865.	1.4	37

#	ARTICLE	IF	CITATIONS
19	Propensities and Second Order Uncertainty: A Modified Taxi Cab Problem. <i>Frontiers in Psychology</i> , 2020, 11, 503233.	1.1	5
20	Standardising Clinical Caremaps: Model, Method and Graphical Notation for Caremap Specification. <i>Communications in Computer and Information Science</i> , 2020, , 429-452.	0.4	0
21	Explaining Away, Augmentation, and the Assumption of Independence. <i>Frontiers in Psychology</i> , 2020, 11, 502751.	1.1	2
22	Real-time Online Probabilistic Medical Computation using Bayesian Networks. , 2020, , .		6
23	Managing Knowledge in Computational Models for Global Food, Nutrition and Health Technologies. , 2020, , .		0
24	Data Visualisation in Midwifery: The Challenge of Seeing what Datasets Hide. <i>Studies in Health Technology and Informatics</i> , 2020, 270, 1239-1240.	0.2	0
25	A framework for analysing learning health systems: Are we removing the most impactful barriers?. <i>Learning Health Systems</i> , 2019, 3, e10189.	1.1	26
26	An Extension to the <i>Noisy-OR</i> Function to Resolve the "Explaining Away"™ Deficiency for Practical Bayesian Network Problems. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2019, 31, 2441-2445.	4.0	16
27	Resolving the so-called "probabilistic paradoxes in legal reasoning" with Bayesian networks. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2019, 59, 367-379.	1.3	12
28	Modelling competing legal arguments using Bayesian model comparison and averaging. <i>Artificial Intelligence and Law</i> , 2019, 27, 403-430.	3.0	18
29	LAGOS: learning health systems and how they can integrate with patient care. <i>BMJ Health and Care Informatics</i> , 2019, 26, e100037.	1.4	9
30	Assessment of the methodological quality of local clinical practice guidelines on the identification and management of gestational diabetes. <i>BMJ Open</i> , 2019, 9, e027285.	0.8	12
31	The Zero-Sum Fallacy in Evidence Evaluation. <i>Psychological Science</i> , 2019, 30, 250-260.	1.8	21
32	Addressing the Practical Limitations of Noisy-OR Using Conditional Inter-Causal Anti-Correlation with Ranked Nodes. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2019, 31, 813-817.	4.0	6
33	Clinical Caremap Development: How Can Caremaps Standardise Care When They Are Not Standardised?. , 2019, , .		7
34	Realistic Synthetic Data Generation: The ATEN Framework. <i>Communications in Computer and Information Science</i> , 2019, , 497-523.	0.4	6
35	Things to know about Bayesian Networks: Decisions under Uncertainty, Part 2. <i>Significance</i> , 2018, 15, 19-23.	0.3	17
36	An improved method for solving Hybrid Influence Diagrams. <i>International Journal of Approximate Reasoning</i> , 2018, 95, 93-112.	1.9	7

#	ARTICLE	IF	CITATIONS
37	Lawnmowers versus terrorists. Significance, 2018, 15, 12-13.	0.3	1
38	Expected Value of Partial Perfect Information in Hybrid Models Using Dynamic Discretization. IEEE Access, 2018, 6, 7802-7817.	2.6	8
39	Learning health systems: the research community awareness challenge. BMJ Health and Care Informatics, 2018, 25, 38-40.	1.4	7
40	The Heimdall framework for supporting characterisation of learning health systems. BMJ Health and Care Informatics, 2018, 25, 77-87.	1.4	34
41	Whom Do We Trust on Social Policy Interventions?. Basic and Applied Social Psychology, 2018, 40, 249-268.	1.2	22
42	Learning from Data in Bayesian Networks. , 2018, , 553-572.		4
43	Defining the Structure of Bayesian Networks. , 2018, , 201-245.		0
44	The Role of Bayes in Forensic and Legal Evidence Presentation. , 2018, , 493-521.		0
45	Towards smart-data: Improving predictive accuracy in long-term football team performance. Knowledge-Based Systems, 2017, 124, 93-104.	4.0	39
46	The opportunity prior. , 2017, , .		4
47	The future of the London Buy-To-Let property market: Simulation with temporal Bayesian Networks. PLoS ONE, 2017, 12, e0179297.	1.1	6
48	Using Bayesian networks to guide the assessment of new evidence in an appeal case. Crime Science, 2016, 5, 9.	1.4	14
49	Integrating expert knowledge with data in Bayesian networks: Preserving data-driven expectations when the expert variables remain unobserved. Expert Systems With Applications, 2016, 56, 197-208.	4.4	69
50	When and where to transfer for Bayesian network parameter learning. Expert Systems With Applications, 2016, 55, 361-373.	4.4	28
51	A Bayesian network framework for project cost, benefit and risk analysis with an agricultural development case study. Expert Systems With Applications, 2016, 60, 141-155.	4.4	90
52	How to model mutually exclusive events based on independent causal pathways in Bayesian network models. Knowledge-Based Systems, 2016, 113, 39-50.	4.0	23
53	An empirical study of Bayesian network parameter learning with monotonic influence constraints. Decision Support Systems, 2016, 87, 69-79.	3.5	37
54	From complex questionnaire and interviewing data to intelligent Bayesian network models for medical decision support. Artificial Intelligence in Medicine, 2016, 67, 75-93.	3.8	119

#	ARTICLE	IF	CITATIONS
55	Bayes and the Law. Annual Review of Statistics and Its Application, 2016, 3, 51-77.	4.1	48
56	Value of information analysis for interventional and counterfactual Bayesian networks in forensic medical sciences. Artificial Intelligence in Medicine, 2016, 66, 41-52.	3.8	17
57	Improving risk management for violence in mental health services: a multimethods approach. Programme Grants for Applied Research, 2016, 4, 1-408.	0.4	16
58	Policy: Development goals should enable decision-making. Nature, 2015, 523, 152-154.	13.7	44
59	Risk assessment and risk management of violent reoffending among prisoners. Expert Systems With Applications, 2015, 42, 7511-7529.	4.4	36
60	Modelling crime linkage with Bayesian networks. Science and Justice - Journal of the Forensic Science Society, 2015, 55, 209-217.	1.3	20
61	Causal analysis for attributing responsibility in legal cases. , 2015, , .		9
62	Assessing evidence and testing appropriate hypotheses. Science and Justice - Journal of the Forensic Science Society, 2014, 54, 502-504.	1.3	6
63	Risk aggregation in the presence of discrete causally connected random variables. Annals of Actuarial Science, 2014, 8, 298-319.	1.0	8
64	Not just data: A method for improving prediction with knowledge. Journal of Biomedical Informatics, 2014, 48, 28-37.	2.5	49
65	Bayesian network approach to multinomial parameter learning using data and expert judgments. International Journal of Approximate Reasoning, 2014, 55, 1252-1268.	1.9	68
66	Calculating and understanding the value of any type of match evidence when there are potential testing errors. Artificial Intelligence and Law, 2014, 22, 1-28.	3.0	18
67	Decision Support Software for Probabilistic Risk Assessment Using Bayesian Networks. IEEE Software, 2014, 31, 21-26.	2.1	26
68	Response to "On the use of the likelihood ratio for forensic evaluation: Response to Fenton et al." Science and Justice - Journal of the Forensic Science Society, 2014, 54, 319-320.	1.3	6
69	When "neutral"™ evidence still has probative value (with implications from the Barry George Case). Science and Justice - Journal of the Forensic Science Society, 2014, 54, 274-287.	1.3	27
70	Bayesian networks for unbiased assessment of referee bias in Association Football. Psychology of Sport and Exercise, 2014, 15, 538-547.	1.1	18
71	An Extended MPL-C Model for Bayesian Network Parameter Learning with Exterior Constraints. Lecture Notes in Computer Science, 2014, , 581-596.	1.0	3
72	Profiting from an inefficient association football gambling market: Prediction, risk and uncertainty using Bayesian networks. Knowledge-Based Systems, 2013, 50, 60-86.	4.0	38

#	ARTICLE	IF	CITATIONS
73	Determining the level of ability of football teams by dynamic ratings based on the relative discrepancies in scores between adversaries. <i>Journal of Quantitative Analysis in Sports</i> , 2013, 9, 37-50.	0.5	37
74	A General Structure for Legal Arguments About Evidence Using Bayesian Networks. <i>Cognitive Science</i> , 2013, 37, 61-102.	0.8	112
75	Legal idioms: a framework for evidential reasoning. <i>Argument and Computation</i> , 2013, 4, 46-63.	0.7	46
76	Profiting from arbitrage and odds biases of the European football gambling market. <i>The Journal of Gambling Business and Economics</i> , 2013, 7, 41-70.	0.2	21
77	Optimizing the Calculation of Conditional Probability Tables in Hybrid Bayesian Networks Using Binary Factorization. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2012, 24, 1306-1312.	4.0	18
78	pi-football: A Bayesian network model for forecasting Association Football match outcomes. <i>Knowledge-Based Systems</i> , 2012, 36, 322-339.	4.0	94
79	Solving the Problem of Inadequate Scoring Rules for Assessing Probabilistic Football Forecast Models. <i>Journal of Quantitative Analysis in Sports</i> , 2012, 8, .	0.5	37
80	Improve statistics in court. <i>Nature</i> , 2011, 479, 36-37.	13.7	27
81	Extending Support Vector Machines to Discover Temporal Periodic Patterns. , 2010, , .		0
82	Comparing risks of alternative medical diagnosis using Bayesian arguments. <i>Journal of Biomedical Informatics</i> , 2010, 43, 485-495.	2.5	32
83	Improved reliability modeling using Bayesian networks and dynamic discretization. <i>Reliability Engineering and System Safety</i> , 2010, 95, 412-425.	5.1	111
84	Software Project and Quality Modelling Using Bayesian Networks. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2010, , 1-25.	0.4	8
85	Modelling Project Trade-Off Using Bayesian Networks. , 2009, , .		6
86	Predicting Project Velocity in XP Using a Learning Dynamic Bayesian Network Model. <i>IEEE Transactions on Software Engineering</i> , 2009, 35, 124-137.	4.3	49
87	On the effectiveness of early life cycle defect prediction with Bayesian Nets. <i>Empirical Software Engineering</i> , 2008, 13, 499-537.	3.0	112
88	Modelling dependable systems using hybrid Bayesian networks. <i>Reliability Engineering and System Safety</i> , 2008, 93, 933-939.	5.1	51
89	Using Bayesian networks to predict software defects and reliability. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2008, 222, 701-712.	0.6	48
90	Solving dynamic fault trees using a new Hybrid Bayesian Network inference algorithm. , 2008, , .		16

#	ARTICLE	IF	CITATIONS
91	Using Ranked Nodes to Model Qualitative Judgments in Bayesian Networks. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 1420-1432.	4.0	170
92	Project Data Incorporating Qualitative Factors for Improved Software Defect Prediction. , 2007, , .		25
93	Project Scheduling: Improved Approach to Incorporate Uncertainty Using Bayesian Networks. Project Management Journal, 2007, 38, 39-49.	2.6	64
94	Predicting software defects in varying development lifecycles using Bayesian nets. Information and Software Technology, 2007, 49, 32-43.	3.0	151
95	Modeling dependable systems using hybrid Bayesian networks. , 2006, , .		18
96	Predicting football results using Bayesian nets and other machine learning techniques. Knowledge-Based Systems, 2006, 19, 544-553.	4.0	84
97	Risk and confidence analysis for fuzzy multicriteria decision making. Knowledge-Based Systems, 2006, 19, 430-437.	4.0	104
98	Improved Bayesian Networks for Software Project Risk Assessment Using Dynamic Discretisation. , 2006, , 139-148.		3
99	Comment: Expert Elicitation for Reliable System Design. Statistical Science, 2006, 21, .	1.6	3
100	Using Bayesian Networks to Model Expected and Unexpected Operational Losses. Risk Analysis, 2005, 25, 963-972.	1.5	119
101	Automated population of causal models for improved software risk assessment. , 2005, , .		3
102	Software Quality Prediction Using Bayesian Networks. , 2003, , 136-172.		11
103	Probabilistic modelling for software quality control. Journal of Applied Non-Classical Logics, 2002, 12, 173-188.	0.4	11
104	Software measurement: uncertainty and causal modeling. IEEE Software, 2002, 19, 116-122.	2.1	128
105	Making decisions: using Bayesian nets and MCDA. Knowledge-Based Systems, 2001, 14, 307-325.	4.0	99
106	Viewpoint Article: Conducting and Presenting Empirical Software Engineering. Empirical Software Engineering, 2001, 6, 195-200.	3.0	18
107	Probabilistic Modelling for Software Quality Control. Lecture Notes in Computer Science, 2001, , 444-453.	1.0	6
108	Using Bayesian belief networks to predict the reliability of military vehicles. Computing & Control Engineering Journal, 2001, 12, 11-20.	0.0	65

#	ARTICLE	IF	CITATIONS
109	Building large-scale Bayesian networks. Knowledge Engineering Review, 2000, 15, 257-284.	2.1	218
110	Quantitative analysis of faults and failures in a complex software system. IEEE Transactions on Software Engineering, 2000, 26, 797-814.	4.3	515
111	Software metrics. , 2000, , .		182
112	Software metrics: successes, failures and new directions. Journal of Systems and Software, 1999, 47, 149-157.	3.3	167
113	A critique of software defect prediction models. IEEE Transactions on Software Engineering, 1999, 25, 675-689.	4.3	745
114	Effects of structure on the comprehensibility of formal specifications. IET Software, 1999, 146, 193.	1.0	11
115	A strategy for improving safety related software engineering standards. IEEE Transactions on Software Engineering, 1998, 24, 1002-1013.	4.3	28
116	Implementing effective software metrics programs. IEEE Software, 1997, 14, 55-65.	2.1	115
117	Reply To: Comments On "towards A Framework Of Software Measurement Validation". IEEE Transactions on Software Engineering, 1997, 23, 189-189.	4.3	13
118	The Role of Measurement in Software Safety Assessment. , 1997, , 217-248.		2
119	How to Improve Safety Critical Systems Standards. , 1997, , 96-110.		1
120	Point counterpoint: do standards improve quality?. IEEE Software, 1996, 13, 22-24.	2.1	9
121	Evaluating the effectiveness of Z: The claims made about CICS and where we go from here. Journal of Systems and Software, 1996, 35, 209-216.	3.3	6
122	Software quality programmes: a snapshot of theory versus reality. Software Quality Journal, 1996, 5, 235-242.	1.4	3
123	Applying Bayesian Belief Networks to System Dependability Assessment. , 1996, , 71-94.		43
124	Towards a framework for software measurement validation. IEEE Transactions on Software Engineering, 1995, 21, 929-944.	4.3	371
125	Software Metrics: a Practitioner's Guide to Improved Product Development. Software Engineering Journal, 1994, 9, 40.	0.7	0
126	Implementing software metrics ? the critical success factors. Software Quality Journal, 1994, 3, 195-208.	1.4	10



#	ARTICLE	IF	CITATIONS
127	Evaluating software engineering standards. <i>Computer</i> , 1994, 27, 71-79.	1.2	51
128	Science and substance: a challenge to software engineers. <i>IEEE Software</i> , 1994, 11, 86-95.	2.1	187
129	Software measurement: a necessary scientific basis. <i>IEEE Transactions on Software Engineering</i> , 1994, 20, 199-206.	4.3	360
130	How effective are software engineering methods?. <i>Journal of Systems and Software</i> , 1993, 22, 141-146.	3.3	36
131	Towards Operational Measures of Computer Security. <i>Journal of Computer Security</i> , 1993, 2, 211-229.	0.5	147
132	Software quality: Theory and management. Alan C. Gillies. Published by Chapman & Hall, London, U.K., 1992. ISBN 0 412 4513 0, 250 pages. Price: £19.95, Soft Cover. <i>Software Testing Verification and Reliability</i> , 1992, 2, 155-155.	1.7	1
133	Moving From Philosophy to Practice in Software Measurement. <i>Workshops in Computing</i> , 1992, , 38-59.	0.4	3
134	When a software measure is not a measure. <i>Software Engineering Journal</i> , 1992, 7, 357.	0.7	20
135	Software Measurement: Why a Formal Approach?. <i>Workshops in Computing</i> , 1992, , 3-27.	0.4	1
136	Validating software measures. <i>Software Testing Verification and Reliability</i> , 1991, 1, 27-42.	1.7	14
137	Program structures: Some new characterisations. <i>Journal of Computer and System Sciences</i> , 1991, 43, 467-483.	0.9	0
138	Deriving structurally based software measures. <i>Journal of Systems and Software</i> , 1990, 12, 177-187.	3.3	75
139	Software measurement: A conceptual framework. <i>Journal of Systems and Software</i> , 1990, 12, 223-231.	3.3	42
140	A philosophy for software measurement. <i>Journal of Systems and Software</i> , 1990, 12, 277-281.	3.3	71
141	Software metrics: theory, tools and validation. <i>Software Engineering Journal</i> , 1990, 5, 65.	0.7	15
142	A note on the use of Z to specify flowgraph decomposition. <i>Information and Software Technology</i> , 1988, 30, 432-437.	3.0	9
143	Metrics and software structure. <i>Information and Software Technology</i> , 1987, 29, 301-320.	3.0	48
144	Axiomatic approach to Software Metrication through Program Decomposition. <i>Computer Journal</i> , 1986, 29, 330-339.	1.5	58

#	ARTICLE	IF	CITATIONS
145	A generalised mathematical theory of structured programming. Theoretical Computer Science, 1985, 36, 145-171.	0.5	22
146	A rigorous approach to structural analysis and metrication of software. Software & Microsystems, 1985, 4, 2.	0.1	7
147	MATROID REPRESENTATIONS AN ALGEBRAIC TREATMENT. Quarterly Journal of Mathematics, 1984, 35, 263-280.	0.3	8
148	Matroid Representation of Projective Spaces. European Journal of Combinatorics, 1984, 5, 123-126.	0.5	0
149	CHARACTERIZATION OF ATOMIC MATROIDS. Quarterly Journal of Mathematics, 1983, 34, 49-60.	0.3	2
150	The opportunity prior: a proof-based prior for criminal cases. Law, Probability and Risk, 0, , .	1.2	1
151	Risk Assessment and Decision Analysis with Bayesian Networks. , 0, , .		92
152	Risk Assessment and Decision Analysis with Bayesian Networks. , 0, , .		165
153	Software Metrics. , 0, , .		203
154	Improved High Dimensional Discrete Bayesian Network Inference using Triplet Region Construction. Journal of Artificial Intelligence Research, 0, 69, 231-295.	7.0	7