

# Ian Spence

## List of Publications by Year in descending order

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88  
papers

3,849  
citations

172457

29  
h-index

128289

60  
g-index

89  
all docs

89  
docs citations

89  
times ranked

3007  
citing authors

#	ARTICLE	IF	CITATIONS
1	Playing an Action Video Game Reduces Gender Differences in Spatial Cognition. <i>Psychological Science</i> , 2007, 18, 850-855.	3.3	870
2	Video Games and Spatial Cognition. <i>Review of General Psychology</i> , 2010, 14, 92-104.	3.2	360
3	A TABLE OF EXPECTED STRESS VALUES FOR RANDOM RANKINGS IN NONMETRIC MULTIDIMENSIONAL SCALING. <i>Multivariate Behavioral Research</i> , 1973, 8, 511-517.	3.1	148
4	Visual psychophysics of simple graphical elements.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1990, 16, 683-692.	0.9	139
5	Displaying proportions and percentages. <i>Applied Cognitive Psychology</i> , 1991, 5, 61-77.	1.6	134
6	Playing a First-person Shooter Video Game Induces Neuroplastic Change. <i>Journal of Cognitive Neuroscience</i> , 2012, 24, 1286-1293.	2.3	108
7	Playing shooter and driving videogames improves top-down guidance in visual search. <i>Attention, Perception, and Psychophysics</i> , 2013, 75, 673-686.	1.3	96
8	The essence of software engineering. <i>Communications of the ACM</i> , 2012, 55, 42-49.	4.5	95
9	Women match men when learning a spatial skill.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2009, 35, 1097-1103.	0.9	88
10	Single subject incomplete designs for nonmetric multidimensional scaling. <i>Psychometrika</i> , 1974, 39, 469-490.	2.1	86
11	Postmortem serotonergic correlates of cognitive decline in Alzheimer??s disease. <i>NeuroReport</i> , 2002, 13, 1175-1178.	1.2	84
12	How Color Enhances Visual Memory for Natural Scenes. <i>Psychological Science</i> , 2006, 17, 1-6.	3.3	84
13	Implicit measures of lostness and success in web navigation. <i>Interacting With Computers</i> , 2007, 19, 357-369.	1.5	79
14	The Perception of Statistical Graphs. <i>Sociological Methods and Research</i> , 1989, 18, 200-242.	6.8	74
15	Judgments of Change and Proportion in Graphical Perception. <i>Human Factors</i> , 1992, 34, 313-334.	3.5	73
16	No Humble Pie: The Origins and Usage of a Statistical Chart. <i>Journal of Educational and Behavioral Statistics</i> , 2005, 30, 353-368.	1.7	72
17	Discriminating Strata in Scatterplots. <i>Journal of the American Statistical Association</i> , 1989, 84, 682-688.	3.1	71
18	What Can Searching Behavior Tell Us About the Difficulty of Information Tasks? A Study of Web Navigation. <i>Proceedings of the American Society for Information Science and Technology</i> , 2006, 43, 1-22.	0.2	67

#	ARTICLE	IF	CITATIONS
19	Enough of Processes - Lets do Practices.. Journal of Object Technology, 2007, 6, 41.	0.9	66
20	THE DETERMINATION OF THE UNDERLYING DIMENSIONALITY OF AN EMPIRICALLY OBTAINED MATRIX OF PROXIMITIES. Multivariate Behavioral Research, 1974, 9, 331-341.	3.1	63
21	A monte carlo evaluation of three nonmetric multidimensional scaling algorithms. Psychometrika, 1972, 37, 461-486.	2.1	57
22	Judging proportion with graphs: the summation model. Applied Cognitive Psychology, 1998, 12, 173-190.	1.6	56
23	Actions of robustoxin, a neurotoxic polypeptide from the venom of the male funnel-web spider (Atrax) Tj ETQq1 1 0,784314 rgBT /Over	1.6	42
24	Profiling information technology users: en route to dynamic personalization. Computers in Human Behavior, 2004, 20, 55-65.	8.5	39
25	A serotonergic basis for hyperphagic eating changes in Alzheimer's disease. Journal of the Neurological Sciences, 2010, 288, 151-155.	0.6	38
26	Robust multidimensional scaling. Psychometrika, 1989, 54, 501-513.	2.1	36
27	The Essence of Software Engineering: The SEMAT Kernel. Queue, 2012, 10, 40-51.	1.1	33
28	An assessment of the Coulter counter model S. Journal of Clinical Pathology, 1970, 23, 68-76.	2.0	32
29	A Simple Approximation For Random Rankings Stress Values. Multivariate Behavioral Research, 1979, 14, 355-365.	3.1	31
30	Using color to code quantity in spatial displays.. Journal of Experimental Psychology: Applied, 1999, 5, 393-412.	1.2	30
31	Systematics of Cuscuta chinensis species complex (subgenus Grammica, Convolvulaceae): evidence for long-distance dispersal and one new species. Organisms Diversity and Evolution, 2011, 11, 373-386.	1.6	29
32	Attention and Visuospatial Working Memory Share the Same Processing Resources. Frontiers in Psychology, 2012, 3, 103.	2.1	29
33	Monte Carlo Simulation Studies. Applied Psychological Measurement, 1983, 7, 405-425.	1.0	27
34	Use-case 2.0. Communications of the ACM, 2016, 59, 61-69.	4.5	27
35	Acute Antioxidant Supplementation Improves Endurance Performance in Trained Athletes. Research in Sports Medicine, 2012, 20, 1-12.	1.3	26
36	Children's Perception of Proportion in Graphs. Child Development, 1994, 65, 1193.	3.0	25

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37	Commemorating William Playfair's 250th birthday. <i>Computational Statistics</i> , 2009, 24, 551-566.	1.5	24
38	Using distance information in the design of large multidimensional scaling experiments.. <i>Psychological Bulletin</i> , 1979, 86, 60-66.	6.1	22
39	The discrimination of graphical elements. <i>Applied Cognitive Psychology</i> , 2001, 15, 413-431.	1.6	21
40	Chronic Cerebral Hypoperfusion Inhibits Calcium-Induced Long-term Potentiation in Rats. <i>Stroke</i> , 1997, 28, 1043-1048.	2.0	21
41	Is there a single method for the internet of things?. <i>Communications of the ACM</i> , 2017, 60, 46-53.	4.5	20
42	Serotonin transporters are preserved in the neocortex of anxious Alzheimer's disease patients. <i>NeuroReport</i> , 2003, 14, 1297-1300.	1.2	19
43	Agile and SEMAT. <i>Communications of the ACM</i> , 2013, 56, 53-59.	4.5	18
44	Upper Visual Field Advantage in Localizing a Target among Distractors. <i>I-Perception</i> , 2014, 5, 97-100.	1.4	18
45	Children's Perception of Proportion in Graphs. <i>Child Development</i> , 1994, 65, 1193-1213.	3.0	17
46	The Apparent and Effective Dimensionality of Representations of Objects. <i>Human Factors</i> , 2004, 46, 738-747.	3.5	17
47	Combining machine learning models of in vitro and in vivo bioassays improves rat carcinogenicity prediction. <i>Regulatory Toxicology and Pharmacology</i> , 2018, 94, 8-15.	2.7	17
48	Monte Carlo studies in nonmetric scaling. <i>Psychometrika</i> , 1978, 43, 115-117.	2.1	15
49	A Remarkable Scatterplot. <i>American Statistician</i> , 1993, 47, 12-19.	1.6	15
50	A Remarkable Scatterplot. <i>American Statistician</i> , 1993, 47, 12.	1.6	14
51	William Playfair: A Daring Worthless Fellow. <i>Chance</i> , 1997, 10, 31-34.	0.2	14
52	Effects of Lead Salts on the Uptake, Release, and Binding of $\gamma$ -Aminobutyric Acid: The Importance of Buffer Composition. <i>Journal of Neurochemistry</i> , 1989, 52, 433-440.	3.9	12
53	Is There a Single Method for the Internet of Things?. <i>Queue</i> , 2017, 15, 25-51.	1.1	12
54	Evolution, Ecology, and Zoonotic Transmission of Betacoronaviruses: A Review. <i>Frontiers in Veterinary Science</i> , 2021, 8, 644414.	2.2	10

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55	On random rankings studies in nonmetric scaling. <i>Psychometrika</i> , 1974, 39, 267-268.	2.1	9
56	Class-Inclusion Reasoning: Patterns of Performance from Three to Eight Years. <i>Child Development</i> , 1982, 53, 780.	3.0	9
57	The Commingled Division of Visual Attention. <i>PLoS ONE</i> , 2015, 10, e0130611.	2.5	9
58	Short-term ECG recording for the identification of cardiac autonomic neuropathy in people with diabetes mellitus. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	8
59	Industrial-scale agile. <i>Communications of the ACM</i> , 2016, 59, 63-71.	4.5	8
60	Major-league SEMAT. <i>Communications of the ACM</i> , 2014, 57, 44-50.	4.5	7
61	Playing Action Video Games Boosts Visual Attention. , 2018, , 93-104.		7
62	Target detection in scientific visualization.. <i>Journal of Experimental Psychology: Applied</i> , 2001, 7, 13-26.	1.2	6
63	The technology profile inventory: Construction, validation, and application. <i>Computers in Human Behavior</i> , 2009, 25, 458-465.	8.5	6
64	Immunization with a synthetic robustoxin derivative lacking disulphide bridges protects against a potentially lethal challenge with funnel-web spider ( <i>Atrax robustus</i> ) venom. <i>Journal of Biosciences</i> , 2009, 34, 35-44.	1.1	6
65	The Effects of Spatial Endogenous Pre-cueing across Eccentricities. <i>Frontiers in Psychology</i> , 2017, 8, 888.	2.1	6
66	Depression and cardiac dysautonomia in eating disorders. <i>Eating and Weight Disorders</i> , 2018, 23, 369-374.	2.5	6
67	How Speech Modifies Visual Attention. <i>Applied Cognitive Psychology</i> , 2013, 27, 633-643.	1.6	5
68	QSAR ligand dataset for modelling mutagenicity, genotoxicity, and rodent carcinogenicity. <i>Data in Brief</i> , 2018, 17, 876-884.	1.0	5
69	A Mixture Distribution of Spatial Attention. <i>Experimental Psychology</i> , 2013, 60, 149-156.	0.7	5
70	Protection of monkeys against the lethal effects of male funnel-web spider ( <i>Atrax robustus</i> ) venom by immunization with a toxoid. <i>Toxicon</i> , 1991, 29, 603-611.	1.6	4
71	Effects of Cognitive Training on Individual Differences in Attention. <i>Lecture Notes in Computer Science</i> , 2007, , 279-287.	1.3	4
72	Discriminating Strata in Scatterplots. <i>Journal of the American Statistical Association</i> , 1989, 84, 682.	3.1	3

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73	Serotonin transporters are preserved in the neocortex of anxious Alzheimer's disease patients. <i>NeuroReport</i> , 2003, 14, 1297-1300.	1.2	2
74	Attending to large dynamic displays. , 2008, , .		2
75	Left or right?. , 2010, , .		2
76	Re-founding software engineering " SEMAT at the age of three (keynote abstract). , 2012, , .		2
77	Refounding software engineering: The Semat initiative (Invited presentation). , 2012, , .		2
78	Graphs and Psychophysics. <i>Visual Communication Quarterly</i> , 1995, 2, 8-11.	0.4	1
79	A Novel Methodology to Probe Endothelial Differential Gene Expression Profile Reveals Novel Genes. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2007, 14, 303-314.	1.7	1
80	Visual guidance in the exploration of large databases. , 2010, , .		1
81	Destination, Seen Unclearly: Relevance of Head-Up Display Information to Driving Is Unrelated to Its Processing. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2017, 61, 1899-1903.	0.3	1
82	Target detection in scientific visualization.. <i>Journal of Experimental Psychology: Applied</i> , 2001, 7, 13-26.	1.2	1
83	Searching for structure in counted data.. <i>Canadian Journal of Psychology</i> , 1982, 36, 117-120.	0.8	0
84	Dual scaling: An alternative approach to categorical data.. <i>Canadian Journal of Psychology</i> , 1983, 37, 313-317.	0.8	0
85	William Playfair and His Graphical Inventions: An Excerpt From the Introduction to the Republication of His <i>Atlas and Statistical Breviary</i> . <i>American Statistician</i> , 2005, 59, 224-229.	1.6	0
86	Major-league SEMAT: Why Should an Executive Care?. <i>Queue</i> , 2014, 12, 20-28.	1.1	0
87	Who is buried in Playfair's grave?. <i>Significance</i> , 2017, 14, 20-23.	0.4	0
88	Smart Group Interactions. <i>Lecture Notes in Computer Science</i> , 2010, , 88-102.	1.3	0