Wim J Van Der Linden

List of Publications by Year
in descending order

125 papers	4,264 citations	159585 30 h-index	155660 55 g-index
138 all docs	138 docs citations	138 times ranked	1108 citing authors

#	Article	IF	Citations
1	A Hierarchical Framework for Modeling Speed and Accuracy on Test Items. Psychometrika, 2007, 72, 287-308.	2.1	349
2	A Lognormal Model for Response Times on Test Items. Journal of Educational and Behavioral Statistics, 2006, 31, 181-204.	1.7	259
3	Conceptual Issues in Response–Time Modeling. Journal of Educational Measurement, 2009, 46, 247-272.	1.2	154
4	Bayesian Procedures for Identifying Aberrant Response-Time Patterns in Adaptive Testing. Psychometrika, 2008, 73, 365-384.	2.1	123
5	Bayesian item selection criteria for adaptive testing. Psychometrika, 1998, 63, 201-216.	2.1	120
6	Optimal Assembly of Psychological and Educational Tests. Applied Psychological Measurement, 1998, 22, 195-211.	1.0	98
7	A Model for Optimal Constrained Adaptive Testing. Applied Psychological Measurement, 1998, 22, 259-270.	1.0	94
8	Multidimensional Adaptive Testing with Optimal Design Criteria for Item Selection. Psychometrika, 2009, 74, 273-296.	2.1	94
9	Multidimensional adaptive testing with constraints on test content. Psychometrika, 2002, 67, 575-588.	2.1	93
10	Using Response Times for Item Selection in Adaptive Testing. Journal of Educational and Behavioral Statistics, 2008, 33, 5-20.	1.7	92
11	Using Response-Time Constraints to Control for Differential Speededness in Computerized Adaptive Testing. Applied Psychological Measurement, 1999, 23, 195-210.	1.0	90
12	Item Response Theory: Brief History, Common Models, and Extensions. , 1997, , 1-28.		89
13	Using response times to detect aberrant responses in computerized adaptive testing. Psychometrika, 2003, 68, 251-265.	2.1	76
14	Constraining Item Exposure in Computerized Adaptive Testing With Shadow Tests. Journal of Educational and Behavioral Statistics, 2004, 29, 273-291.	1.7	71
15	Optimal Cutting Scores Using A Linear Loss Function. Applied Psychological Measurement, 1977, 1, 593-599.	1.0	64
16	Multidimensional Adaptive Testing with a Minimum Error-Variance Criterion. Journal of Educational and Behavioral Statistics, 1999, 24, 398-412.	1.7	59
17	Statistical Tests of Conditional Independence Between Responses and/or Response Times on Test Items. Psychometrika, 2010, 75, 120-139.	2.1	58
18	Constrained Adaptive Testing with Shadow Tests. , 2000, , 27-52.		58

#	ARTICLE	IF	CITATIONS
19	A LATENT TRAIT METHOD FOR DETERMINING INTRAJUDGE INCONSISTENCY IN THE ANGOFF AND NEDELSKY TECHNIQUES OF STANDARD SETTING. Journal of Educational Measurement, 1982, 19, 295-308.	1.2	57
20	Detecting Differential Speededness in Multistage Testing. Journal of Educational Measurement, 2007, 44, 117-130.	1.2	51
21	Detecting Answer Copying When the Regular Response Process Follows a Known Response Model. Journal of Educational and Behavioral Statistics, 2006, 31, 283-304.	1.7	49
22	Capitalization on Item Calibration Error in Adaptive Testing. Applied Measurement in Education, 2000, 13, 35-53.	1.1	47
23	Automated Test Assembly Using lp_Solve Version 5.5 in R. Applied Psychological Measurement, 2011, 35, 398-409.	1.0	46
24	Decision Models for Use with Criterion-Referenced Tests. Applied Psychological Measurement, 1980, 4, 469-492.	1.0	41
25	Simultaneous Assembly of Multiple Test Forms. Journal of Educational Measurement, 1998, 35, 185-198.	1.2	41
26	Empirical Initialization of the Trait Estimator in Adaptive Testing. Applied Psychological Measurement, 1999, 23, 21-29.	1.0	40
27	Item Selection and Ability Estimation in Adaptive Testing. , 2000, , 1-25.		40
28	Conditional Item-Exposure Control in Adaptive Testing Using Item-Ineligibility Probabilities. Journal of Educational and Behavioral Statistics, 2007, 32, 398-418.	1.7	38
29	Handbook of Item Response Theory, Three Volume Set. , 0, , .		37
30	Modeling Rule-Based Item Generation. Psychometrika, 2011, 76, 337-359.	2.1	36
31	Achievement test construction using 0â€"1 linear programming. European Journal of Operational Research, 1991, 55, 103-111.	5.7	35
32	A test-theoretic approach to observed-score equating. Psychometrika, 2000, 65, 437-456.	2.1	34
33	A Zero-One Programming Approach to Guiliksen's Matched Random Subtests Method. Applied Psychological Measurement, 1988, 12, 201-209.	1.0	33
34	Marginal likelihood inference for a model for item responses and response times. British Journal of Mathematical and Statistical Psychology, 2010, 63, 603-626.	1.4	31
35	A Comparison of Item-Selection Methods for Adaptive Tests with Content Constraints. Journal of Educational Measurement, 2005, 42, 283-302.	1.2	30
36	On Compensation in Multidimensional Response Modeling. Psychometrika, 2012, 77, 21-30.	2.1	30

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37	Assembling Tests for the Measurement of Multiple Traits. Applied Psychological Measurement, 1996, 20, 373-388.	1.0	28
38	Predictive Control of Speededness in Adaptive Testing. Applied Psychological Measurement, 2009, 33, 25-41.	1.0	28
39	Some Alternatives to Sympson-Hetter Item-Exposure Control in Computerized Adaptive Testing. Journal of Educational and Behavioral Statistics, 2003, 28, 249-265.	1.7	27
40	A Bivariate Lognormal Response-Time Model for the Detection of Collusion Between Test Takers. Journal of Educational and Behavioral Statistics, 2009, 34, 378-394.	1.7	27
41	Algorithms for Computerized Test Construction Using Classical Item Parameters. Journal of Educational Statistics, 1989, 14, 279.	0.9	26
42	Implementing Content Constraints in Alpha-Stratified Adaptive Testing Using a Shadow Test Approach. Applied Psychological Measurement, 2003, 27, 107-120.	1.0	26
43	Optimizing Balanced Incomplete Block Designs for Educational Assessments. Applied Psychological Measurement, 2004, 28, 317-331.	1.0	26
44	A Response to â€œSetting Reasonable and Useful Performance Standardsâ€•in the National Academy of Scienceâ€™Grading the Nations Report Card. Educational Measurement: Issues and Practice, 2005, 19, 5-14.	1.4	26
45	Modeling Answer Changes on Test Items. Journal of Educational and Behavioral Statistics, 2012, 37, 180-199.	1.7	26
46	Optimal Bayesian Adaptive Design for Test-Item Calibration. Psychometrika, 2015, 80, 263-288.	2.1	26
47	Assembling a Computerized Adaptive Testing Item Pool as a Set of Linear Tests. Journal of Educational and Behavioral Statistics, 2006, 31, 81-99.	1.7	25
48	Test Design and Speededness. Journal of Educational Measurement, 2011, 48, 44-60.	1.2	24
49	An Integer Programming Approach to Item Bank Design. Applied Psychological Measurement, 2000, 24, 139-150.	1.0	23
50	Binomial Test Models and Item Difficulty. Applied Psychological Measurement, 1979, 3, 401-411.	1.0	22
51	A compensatory approach to optimal selection with mastery scores. Psychometrika, 1996, 61, 155-172.	2.1	22
52	Observed-score equating as a test assembly problem. Psychometrika, 1998, 63, 401-418.	2.1	22
53	The linear utility model for optimal selection. Psychometrika, 1981, 46, 283-293.	2.1	21
54	Constructing Rotating Item Pools for Constrained Adaptive Testing. Journal of Educational Measurement, 2004, 41, 345-359.	1.2	21

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55	Equating Error in Observed-Score Equating. Applied Psychological Measurement, 2006, 30, 355-378.	1.0	21
56	Detecting Answer Copying Using the Kappa Statistic. Applied Psychological Measurement, 2006, 30, 412-431.	1.0	21
57	Bayesian Checks on Cheating on Tests. Psychometrika, 2015, 80, 689-706.	2.1	20
58	Linking Item Response Model Parameters. Psychometrika, 2016, 81, 650-673.	2.1	20
59	Using aptitude measurements for the optimal assignment of subjects to treatments with and without mastery scores. Psychometrika, 1981, 46, 257-274.	2.1	18
60	A Statistical Test for Detecting Answer Copying on Multiple-Choice Tests. Journal of Educational Measurement, 2004, 41, 361-377.	1.2	18
61	A Paradox in the Study of the Benefits of Test-Item Review. Journal of Educational Measurement, 2011, 48, 380-398.	1.2	18
62	Optimal Assembly of Tests with Item Sets. Applied Psychological Measurement, 2000, 24, 225-240.	1.0	17
63	Coefficients for Tests from a Decision Theoretic Point of View. Applied Psychological Measurement, 1978, 2, 119-134.	1.0	16
64	Algorithms for Computerized Test Construction Using Classical Item Parameters. Journal of Educational Statistics, 1989, 14, 279-290.	0.9	16
65	The Changing Conception of Measurement in Education and Psychology. Applied Psychological Measurement, 1986, 10, 325-332.	1.0	15
66	Local Observed–Score Kernel Equating. Journal of Educational Measurement, 2014, 51, 57-74.	1.2	15
67	Item Selection and Ability Estimation in Adaptive Testing. , 2009, , 3-30.		15
68	The Internal and External Optimality of Decisions Based on Tests. Applied Psychological Measurement, 1979, 3, 257-273.	1.0	14
69	A Latent Trait Look at Pretest-Posttest Validation of Criterion-referenced Test Items. Review of Educational Research, 1981, 51, 379-402.	7.5	13
70	An Empirical Bayesian Approach to Item Banking. Applied Psychological Measurement, 1986, 10, 345-354.	1.0	13
71	A Fast and Simple Algorithm for Bayesian Adaptive Testing. Journal of Educational and Behavioral Statistics, 2020, 45, 58-85.	1.7	13
72	Some New Developments in Adaptive Testing Technology. Zeitschrift Fuer Psychologie Mit Zeitschrift Fuer Angewandte Psychologie, 2008, 216, 3-11.	1.0	13

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73	Computerized Adaptive Testing with Equated Number-Correct Scoring. Applied Psychological Measurement, 2001, 25, 343-355.	1.0	12
74	Improving Item–Exposure Control in Adaptive Testing. Journal of Educational Measurement, 2020, 57, 405-422.	1.2	12
75	Multidimensional Adaptive Testing with Kullback–Leibler Information Item Selection. , 2009, , 77-101.		12
76	Forgetting, Guessing, and Mastery: The Macready and Dayton Models Revisited and Compared with a Latent Trait Approach. Journal of Educational Statistics, 1978, 3, 305.	0.9	11
77	Linking Response–Time Parameters onto a Common Scale. Journal of Educational Measurement, 2010, 47, 92-114.	1.2	11
78	Local Linear Observed-Score Equating. Journal of Educational Measurement, 2011, 48, 229-254.	1.2	11
79	Continuous Online Item Calibration: Parameter Recovery and Item Utilization. Psychometrika, 2017, 82, 498-522.	2.1	11
80	Forgetting, Guessing, and Mastery: The Macready and Dayton Models Revisited and Compared with a Latent Trait Approach. Journal of Educational Statistics, 1978, 3, 305-317.	0.9	10
81	A Strategy for Optimizing Item-Pool Management. Journal of Educational Measurement, 2006, 43, 85-96.	1.2	10
82	Equating Scores From Adaptive to Linear Tests. Applied Psychological Measurement, 2006, 30, 493-508.	1.0	10
83	Some Conceptual Issues in Observed–Score Equating. Journal of Educational Measurement, 2013, 50, 249-285.	1.2	10
84	Optimal Reassembly of Shadow Tests in CAT. Applied Psychological Measurement, 2016, 40, 469-485.	1.0	10
85	Constrained Adaptive Testing with Shadow Tests. , 2009, , 31-55.		10
86	Some Thoughts on the Use of Decision Theory to Set Cutoff Scores: Comment on de Gruijter and Hambleton. Applied Psychological Measurement, 1984, 8, 9-17.	1.0	9
87	25 Statistical Aspects of Adaptive Testing. Handbook of Statistics, 2006, 26, 801-838.	0.6	9
88	Implementing Sympson-Hetter Item-Exposure Control in a Shadow-Test Approach to Constrained Adaptive Testing. International Journal of Testing, 2008, 8, 272-289.	0.3	9
89	Ensuring content validity of patient-reported outcomes: a shadow-test approach to their adaptive measurement. Quality of Life Research, 2018, 27, 1683-1693.	3.1	9
90	Review of the shadow-test approach to adaptive testing. Behaviormetrika, 2022, 49, 169-190.	1.3	9

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91	Optimal Test Design With Rule-Based Item Generation. Applied Psychological Measurement, 2013, 37, 140-161.	1.0	8
92	Cross-Validating Item Parameter Estimation in Adaptive Testing. Lecture Notes in Statistics, 2001, , 205-219.	0.2	8
93	Stochastic order in dichotomous item response models for fixed, adaptive, and multidimensional tests. Psychometrika, 1998, 63, 211-226.	2.1	7
94	TestDesign: an optimal test design approach to constructing fixed and adaptive tests in R. Behaviormetrika, 2022, 49, 191-229.	1.3	7
95	Estimating the Parameters of Emrick's Mastery Testing Model. Applied Psychological Measurement, 1981, 5, 517-530.	1.0	6
96	The Use of Test Scores for Classification Decisions with Threshold Utility. Journal of Educational Statistics, 1987, 12, 62-75.	0.9	6
97	A Decision Theory Model for Course Placement. Journal of Educational and Behavioral Statistics, 1998, 23, 18-34.	1.7	6
98	Comment on Three-Element Item Selection Procedures for Multiple Forms Assembly. Applied Psychological Measurement, 2016, 40, 641-649.	1.0	6
99	Automated Test-Form Generation. Journal of Educational Measurement, 2011, 48, 206-222.	1.2	5
100	Estimating Linking Functions for Response Model Parameters. Journal of Educational and Behavioral Statistics, 2019, 44, 180-209.	1.7	5
101	A Shadow-Test Approach to Adaptive Item Calibration. Psychometrika, 2020, 85, 301-321.	2.1	5
102	Bayesian adaptive testing with polytomous items. Behaviormetrika, 2020, 47, 427-449.	1.3	5
103	Criterion-referenced measurement: Its main applications, problems and findings. International Journal of Educational Research, 1982, 5, 97-118.	0.1	4
104	Multidimensional Adaptive Testing with a Minimum Error-Variance Criterion. Journal of Educational and Behavioral Statistics, 1999, 24, 398.	1.7	3
105	Designing Item Pools for Adaptive Testing. , 2009, , 231-245.		3
106	Estimation of the Parameters in an Item-Cloning Model for Adaptive Testing. , 2009, , 289-314.		3
107	Advances in Computer Applications. , 1995, , 105-124.		3
108	Passing score and length of a mastery test. International Journal of Educational Research, 1982, 5, 149-164.	0.1	2

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109	Setting Standards and Detecting Intrajudge Inconsistency Using Interdependent Evaluation of Response Alternatives. Educational and Psychological Measurement, 2004, 64, 781-801.	2.4	2
110	On Bias in Linear Observed-Score Equating. Measurement, 2010, 8, 21-26.	0.2	2
111	Optimal Linking Design for Response Model Parameters. Journal of Educational Measurement, 2017, 54, 285-305.	1.2	2
112	Lord's Equity Theorem Revisited. Journal of Educational and Behavioral Statistics, 2019, 44, 415-430.	1.7	2
113	A Decision Theory Model for Course Placement. Journal of Educational and Behavioral Statistics, 1998, 23, 18.	1.7	1
114	A COMPARISON OF TWO PROCEDURES FOR CONSTRAINED ADAPTIVE TEST CONSTRUCTION. ETS Research Report Series, 2004, 2004, i.	0.8	1
115	Adaptive Models of Psychological Testing. Zeitschrift Fuer Psychologie Mit Zeitschrift Fuer Angewandte Psychologie, 2008, 216, 1-2.	1.0	1
116	Integrating Test-Form Formatting Into Automated Test Assembly. Applied Psychological Measurement, 2013, 37, 361-374.	1.0	1
117	A Comparison of Constraint Programming and Mixed-Integer Programming for Automated Test-Form Generation. Journal of Educational Measurement, 2018, 55, 435-456.	1.2	1
118	Two Statistical Tests for the Detection of Item Compromise. Journal of Educational and Behavioral Statistics, 2022, 47, 485-504.	1.7	1
119	Selecting items for criterion-referenced tests. International Journal of Educational Research, 1982, 5, 177-190.	0.1	0
120	The Use of Moment Estimators for Mixtures of Two Binomials with One Known Success Parameter. Educational and Psychological Measurement, 1983, 43, 321-330.	2.4	0
121	The Use of Test Scores for Classification Decisions with Threshold Utility. Journal of Educational Statistics, 1987, 12, 62.	0.9	0
122	Classical Test Theory. , 2005, , 301-307.		0
123	More Issues in Observed-Score Equating. Journal of Educational Measurement, 2013, 50, 324-337.	1.2	0
124	Obituary GIDEON J. MELLENBERGH (1938–2021). Psychometrika, 2021, 86, 836-840.	2.1	0
125	What Is Actually Equated in "Test Equating"? A Didactic Note. Journal of Educational and Behavioral Statistics, 0, , 107699862110723.	1.7	0