Luca Stefanutti

List of Publications by Year
in descending order

		567281	677142
43 papers	**617** citations	**15** h-index	**22** g-index
45 all docs	**45** docs citations	**45** times ranked	**85** citing authors

#	Article	IF	Citations
1	Constructing, improving, and shortening tests for skill assessment. Journal of Mathematical Psychology, 2022, 106, 102621.	1.8	5
2	On the empirical indistinguishability of knowledge structures. British Journal of Mathematical and Statistical Psychology, 2021, 74, 465-486.	1.4	2
3	Some considerations on the factorization of state probabilities in knowledge structures. Journal of Mathematical Psychology, 2021, 102, 102542.	1.8	4
4	Modeling learning in knowledge space theory through bivariate Markov processes. Journal of Mathematical Psychology, 2021, 103, 102549.	1.8	3
5	Markov solution processes: Modeling human problem solving with procedural knowledge space theory. Journal of Mathematical Psychology, 2021, 103, 102552.	1.8	4
6	Extracting partially ordered clusters from ordinal polytomous data. Behavior Research Methods, 2020, 52, 503-520.	4.0	5
7	On the polytomous generalization of knowledge space theory. Journal of Mathematical Psychology, 2020, 94, 102306.	1.8	25
8	Modeling misconceptions in knowledge space theory. Journal of Mathematical Psychology, 2020, 99, 102435.	1.8	6
9	Extending the Basic Local Independence Model to Polytomous Data. Psychometrika, 2020, 85, 684-715.	2.1	5
10	Stat-Knowlab. Assessment and Learning of Statistics with Competence-based Knowledge Space Theory. International Journal of Artificial Intelligence in Education, 2020, 30, 668-700.	5.5	12
11	On the necessary and sufficient conditions for delineating forward- and backward-graded knowledge structures from skill maps. Journal of Mathematical Psychology, 2020, 99, 102451.	1.8	9
12	Does discrimination beat association in the IAT? The discrimination-association model reconceived. Behavior Research Methods, 2020, 52, 1640-1656.	4.0	3
13	BLIM's identifiability and parameter invariance under backward and forward transformations. Journal of Mathematical Psychology, 2020, 95, 102314.	1.8	8
14	On the assessment of procedural knowledge: From problem spaces to knowledge spaces. British Journal of Mathematical and Statistical Psychology, 2019, 72, 185-218.	1.4	12
15	Testing the actual equivalence of automatically generated items. Behavior Research Methods, 2018, 50, 39-56.	4.0	3
16	Detecting and explaining BLIM's unidentifiability: Forward and backward parameter transformation groups. Journal of Mathematical Psychology, 2018, 82, 38-51.	1.8	17
17	A class of k-modes algorithms for extracting knowledge structures from data. Behavior Research Methods, 2017, 49, 1212-1226.	4.0	15
18	The assessment of knowledge and learning in competence spaces: The gain–loss model for dependent skills. British Journal of Mathematical and Statistical Psychology, 2017, 70, 457-479.	1.4	19

#	Article	IF	Citations
19	On the assessment of learning in competence based knowledge space theory. Journal of Mathematical Psychology, 2017, 80, 22-32.	1.8	27
20	A necessary and sufficient condition for unique skill assessment. Journal of Mathematical Psychology, 2017, 79, 23-28.	1.8	25
21	An Upgrading Procedure for Adaptive Assessment of Knowledge. Psychometrika, 2016, 81, 461-482.	2.1	13
22	An iterative procedure for extracting skill maps from data. Behavior Research Methods, 2016, 48, 729-741.	4.0	20
23	On the Link between Cognitive Diagnostic Models and Knowledge Space Theory. Psychometrika, 2015, 80, 995-1019.	2.1	58
24	Naïve Tests of Basic Local Independence Model's Invariance. Spanish Journal of Psychology, 2015, 18, E26.	2.1	3
25	Modeling missing data in knowledge space theory.. Psychological Methods, 2015, 20, 506-522.	3.5	20
26	GRace: A MATLAB-Based Application for Fitting the Discrimination-Association Model. Spanish Journal of Psychology, 2014, 17, E73.	2.1	1
27	A Derivation of the Polytomous Rasch Model Based on the Most Probable Distribution Method. Spanish Journal of Psychology, 2014, 17, E84.	2.1	2
28	An Analysis of Item Response Theory and Rasch Models Based on the Most Probable Distribution Method. Psychometrika, 2014, 79, 377-402.	2.1	6
29	A discrimination–association model for decomposing component processes of the Implicit Association Test. Behavior Research Methods, 2013, 45, 393-404.	4.0	7
30	Assessing Parameter Invariance in the BLIM: Bipartition Models. Psychometrika, 2013, 78, 710-724.	2.1	19
31	Skill map based knowledge structures: some considerations about their identifiability. Electronic Notes in Discrete Mathematics, 2013, 42, 73-80.	0.4	4
32	Considerations about the identification of forward- and backward-graded knowledge structures. Journal of Mathematical Psychology, 2013, 57, 249-254.	1.8	29
33	Recent Developments in Competence-based Knowledge Space Theory. , 2013, , 243-286.		7
34	On the unidentifiability of a certain class of skill multi map based probabilistic knowledge structures. Journal of Mathematical Psychology, 2012, 56, 248-255.	1.8	35
35	Assessing the local identifiability of probabilistic knowledge structures. Behavior Research Methods, 2012, 44, 1197-1211.	4.0	25
36	Uncovering the Best Skill Multimap by Constraining the Error Probabilities of the Gain-Loss Model. Psychometrika, 2012, 77, 763-781.	2.1	13

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37	Assessing learning processes with the gain-loss model. Behavior Research Methods, 2011, 43, 66-76.	4.0	14
38	Knowledge space theory, formal concept analysis, and computerized psychological assessment. Behavior Research Methods, 2010, 42, 342-350.	4.0	39
39	The Gainâ€Loss Model: A Probabilistic Skill Multimap Model for Assessing Learning Processes. Journal of Educational Measurement, 2010, 47, 373-394.	1.2	17
40	Recovering a Probabilistic Knowledge Structure byÂConstraining its Parameter Space. Psychometrika, 2009, 74, 83-96.	2.1	30
41	A characterization of the concept of independence in knowledge structures. Journal of Mathematical Psychology, 2008, 52, 207-217.	1.8	6
42	A logistic approach to knowledge structures. Journal of Mathematical Psychology, 2006, 50, 545-561.	1.8	14
43	A procedure for the incremental construction of a knowledge space. Journal of Mathematical Psychology, 2003, 47, 265-277.	1.8	6