Luca Stefanutti

List of Publications by Year
in descending order

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

#	ARTICLE	IF	CITATIONS
1	On the Link between Cognitive Diagnostic Models and Knowledge Space Theory. Psychometrika, 2015, 80, 995-1019.	2.1	58
2	Knowledge space theory, formal concept analysis, and computerized psychological assessment. Behavior Research Methods, 2010, 42, 342-350.	4.0	39
3	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
4	Recovering a Probabilistic Knowledge Structure byÂConstraining its Parameter Space. Psychometrika, 2009, 74, 83-96.	2.1	30
5	Considerations about the identification of forward- and backward-graded knowledge structures. Journal of Mathematical Psychology, 2013, 57, 249-254.	1.8	29
6	On the assessment of learning in competence based knowledge space theory. Journal of Mathematical Psychology, 2017, 80, 22-32.	1.8	27
7	Assessing the local identifiability of probabilistic knowledge structures. Behavior Research Methods, 2012, 44, 1197-1211.	4.0	25
8	A necessary and sufficient condition for unique skill assessment. Journal of Mathematical Psychology, 2017, 79, 23-28.	1.8	25
9	On the polytomous generalization of knowledge space theory. Journal of Mathematical Psychology, 2020, 94, 102306.	1.8	25
10	An iterative procedure for extracting skill maps from data. Behavior Research Methods, 2016, 48, 729-741.	4.0	20
11	Modeling missing data in knowledge space theory.. Psychological Methods, 2015, 20, 506-522.	3.5	20
12	Assessing Parameter Invariance in the BLIM: Bipartition Models. Psychometrika, 2013, 78, 710-724.	2.1	19
13	The assessment of knowledge and learning in competence spaces: The gainâ€"loss model for dependent skills. British Journal of Mathematical and Statistical Psychology, 2017, 70, 457-479.	1.4	19
14	The Gainâ€Loss Model: A Probabilistic Skill Multimap Model for Assessing Learning Processes. Journal of Educational Measurement, 2010, 47, 373-394.	1.2	17
15	Detecting and explaining BLIMâ€™s unidentifiability: Forward and backward parameter transformation groups. Journal of Mathematical Psychology, 2018, 82, 38-51.	1.8	17
16	A class of k-modes algorithms for extracting knowledge structures from data. Behavior Research Methods, 2017, 49, 1212-1226.	4.0	15
17	A logistic approach to knowledge structures. Journal of Mathematical Psychology, 2006, 50, 545-561.	1.8	14
18	Assessing learning processes with the gain-loss model. Behavior Research Methods, 2011, 43, 66-76.	4.0	14

#	ARTICLE	IF	CITATIONS
19	Uncovering the Best Skill Multimap by Constraining the Error Probabilities of the Gain-Loss Model. Psychometrika, 2012, 77, 763-781.	2.1	13
20	An Upgrading Procedure for Adaptive Assessment of Knowledge. Psychometrika, 2016, 81, 461-482.	2.1	13
21	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
22	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
23	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
24	BLIM's identifiability and parameter invariance under backward and forward transformations. Journal of Mathematical Psychology, 2020, 95, 102314.	1.8	8
25	A discrimination–association model for decomposing component processes of the Implicit Association Test. Behavior Research Methods, 2013, 45, 393-404.	4.0	7
26	Recent Developments in Competence-based Knowledge Space Theory. , 2013, , 243-286.		7
27	A procedure for the incremental construction of a knowledge space. Journal of Mathematical Psychology, 2003, 47, 265-277.	1.8	6
28	A characterization of the concept of independence in knowledge structures. Journal of Mathematical Psychology, 2008, 52, 207-217.	1.8	6
29	An Analysis of Item Response Theory and Rasch Models Based on the Most Probable Distribution Method. Psychometrika, 2014, 79, 377-402.	2.1	6
30	Modeling misconceptions in knowledge space theory. Journal of Mathematical Psychology, 2020, 99, 102435.	1.8	6
31	Extracting partially ordered clusters from ordinal polytomous data. Behavior Research Methods, 2020, 52, 503-520.	4.0	5
32	Extending the Basic Local Independence Model to Polytomous Data. Psychometrika, 2020, 85, 684-715.	2.1	5
33	Constructing, improving, and shortening tests for skill assessment. Journal of Mathematical Psychology, 2022, 106, 102621.	1.8	5
34	Skill map based knowledge structures: some considerations about their identifiability. Electronic Notes in Discrete Mathematics, 2013, 42, 73-80.	0.4	4
35	Some considerations on the factorization of state probabilities in knowledge structures. Journal of Mathematical Psychology, 2021, 102, 102542.	1.8	4
36	Markov solution processes: Modeling human problem solving with procedural knowledge space theory. Journal of Mathematical Psychology, 2021, 103, 102552.	1.8	4

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37	Naïve Tests of Basic Local Independence Model's Invariance. Spanish Journal of Psychology, 2015, 18, E26.	2.1	3
38	Testing the actual equivalence of automatically generated items. Behavior Research Methods, 2018, 50, 39-56.	4.0	3
39	Does discrimination beat association in the IAT? The discrimination-association model reconceived. Behavior Research Methods, 2020, 52, 1640-1656.	4.0	3
40	Modeling learning in knowledge space theory through bivariate Markov processes. Journal of Mathematical Psychology, 2021, 103, 102549.	1.8	3
41	A Derivation of the Polytomous Rasch Model Based on the Most Probable Distribution Method. Spanish Journal of Psychology, 2014, 17, E84.	2.1	2
42	On the empirical indistinguishability of knowledge structures. British Journal of Mathematical and Statistical Psychology, 2021, 74, 465-486.	1.4	2
43	GRace: A MATLAB-Based Application for Fitting the Discrimination-Association Model. Spanish Journal of Psychology, 2014, 17, E73.	2.1	1