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## Spaces for the assessment of knowledge

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287	Languages for the assessment of knowledge. <i>Journal of Mathematical Psychology</i> , <b>1986</b> , 30, 243-256	1.2	21
286	Knowledge acquisition assessment by experts: Effects and models of the cognitive functioning of evaluators. <b>1987</b> , 2, 119-131		3
285	Parametrization of knowledge structures. <b>1988</b> , 21, 87-100		8
284	Plural psychological developmental models: An ordinal generalization of the Guttman scale. <i>Journal of Mathematical Psychology</i> , <b>1988</b> , 32, 213-231	1.2	0
283	A markovian procedure for assessing the state of a system. <i>Journal of Mathematical Psychology</i> , <b>1988</b> , 32, 232-258	1.2	73
282	A latent trait theory via a stochastic learning theory for a knowledge space. <b>1989</b> , 54, 283-303		43
281	Probabilistic Knowledge Spaces: A Review. <b>1989</b> , 95-101		3
280	Knowledge representation with and-or-graphs: Comparing the approach of doignon & falmagne with the absynt-diagnostics. <b>1990</b> , 158-174		0
279	Introduction to knowledge spaces: How to build, test, and search them.. <b>1990</b> , 97, 201-224		129
278	How to build a knowledge space by querying an expert. <i>Journal of Mathematical Psychology</i> , <b>1990</b> , 34, 311-331	1.2	54
277	Founding cognitive science on the arrow of time?. <i>Journal of Mathematical Psychology</i> , <b>1991</b> , 35, 122-130.	1.2	0
276	Probabilistic student models: Bayesian Belief Networks and Knowledge Space Theory. <i>Lecture Notes in Computer Science</i> , <b>1992</b> , 491-498	0.9	32
275	Incorporating Student Models in Adaptive Testing Systems. <b>1993</b> , 30, 135-142		3
274	Chapter 7 Knowledge Assessment Based on Skill Assignment and Psychological Task Analysis. <b>1993</b> , 101, 139-159		13
273	Bibliography. <b>1993</b> , 50, 507-528		
272	Probabilistic assessment of knowledge. <b>1994</b> , 1-57		3
271	Construction of Knowledge Spaces for Problem Solving in Chess. <i>Recent Research in Psychology</i> , <b>1994</b> , 123-135		4

270	Individualized course generation: A marriage between CAL and ICAL. <b>1994</b> , 22, 57-64		2
269	. <b>1995</b> , 25, 727-737		20
268	Modeling the student in intelligent tutoring systems: The promise of a new psychometrics. <b>1995</b> , 23, 433-452		10
267	Data Analysis and Information Systems. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , <b>1996</b> ,	0.2	2
266	Mapping students' thinking patterns by the use of the Knowledge Space Theory. <b>1997</b> , 19, 283-302		12
265	Modellierung von Fehlkonzepten in einer algebraischen Wissensstruktur. <b>1997</b> , 6, 196-204		
264	Empirical Validation of a Markovian Learning Model for Knowledge Structures. <i>Journal of Mathematical Psychology</i> , <b>1997</b> , 41, 65-70	1.2	3
263	Validity of Spaces for Assessing Knowledge about Fractions. <i>Journal of Mathematical Psychology</i> , <b>1997</b> , 41, 99-105	1.2	6
262	A Generalization of Knowledge Space Theory to Problems with More Than Two Answer Alternatives. <i>Journal of Mathematical Psychology</i> , <b>1997</b> , 41, 237-43	1.2	17
261	Using the Basis of a Knowledge Space for Determining the Fringe of a Knowledge State. <i>Journal of Mathematical Psychology</i> , <b>1997</b> , 41, 275-9	1.2	3
260	On alternative representations for knowledge spaces. <b>1998</b> , 36, 127-143		16
259	A pretopological approach for structuring data in non-metric spaces. <b>1999</b> , 2, 1-9		1
258	A Boolean approach to the measurement of group processes and attitudes. <b>1999</b> , 38, 275-293		4
257	On the empirical construction of implications between bi-valued test items. <b>1999</b> , 38, 361-375		22
256	Extracting knowledge structures from observed data. <i>British Journal of Mathematical and Statistical Psychology</i> , <b>1999</b> , 52, 213-224	2.8	18
255	Editorial: 30th Anniversary Issue. <b>1999</b> , 51, 119-124		
254	A Practical Procedure to Build a Knowledge Structure. <i>Journal of Mathematical Psychology</i> , <b>2000</b> , 44, 383-407	1.2	16
253	4. Algebraic Representations of Beliefs and Attitudes II: Microbelief Models for Dichotomous Belief Data. <b>2000</b> , 30, 123-164		16

252	Qualitative Discovery in Medical Databases. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 474-485	0.9	
251	A Method for Comparing Knowledge Structures Concerning Their Adequacy. <i>Journal of Mathematical Psychology</i> , <b>2001</b> , 45, 480-496	1.2	4
250	Automata for the assessment of knowledge. <b>2001</b> , 13, 451-461		11
249	Coarsening a Knowledge Structure. <i>Journal of Mathematical Psychology</i> , <b>2002</b> , 46, 123-139	1.2	4
248	Lattices and dimensional representations: matrix decompositions and ordering structures. <b>2002</b> , 24, 423-444		26
247	A procedure for the incremental construction of a knowledge space. <i>Journal of Mathematical Psychology</i> , <b>2003</b> , 47, 265-277	1.2	5
246	Surmise relations between tests and mathematical considerations. <b>2003</b> , 127, 221-239		2
245	The assessment of knowledge, in theory and in practice.		9
244	Applying competence structures for peer tutor recommendations in CSCL environments.		1
243	A formal framework for characterizing querying algorithms. <i>Journal of Mathematical Psychology</i> , <b>2004</b> , 48, 1-8	1.2	10
242	The Correlational Agreement Coefficient CA(D) and mathematical analysis of a descriptive goodness-of-fit measure. <b>2004</b> , 48, 281-314		6
241	Jean-Claude Flamagne's publications. <i>Journal of Mathematical Psychology</i> , <b>2005</b> , 49, 432-435	1.2	
240	About the Connection Between Knowledge Structures and Latent Class Models. <i>Methodology</i> , <b>2005</b> , 1, 93-103	1.2	17
239	Estimation of careless error and lucky guess probabilities for dichotomous test items: A psychometric application of a biometric latent class model with random effects. <i>Journal of Mathematical Psychology</i> , <b>2006</b> , 50, 309-328	1.2	16
238	A logistic approach to knowledge structures. <i>Journal of Mathematical Psychology</i> , <b>2006</b> , 50, 545-561	1.2	10
237	Properties of the correlational agreement coefficient: A comment to Bland and Albert (2004). <b>2006</b> , 51, 117-123		1
236	The use of configural frequency analysis for explorative data analysis. <i>British Journal of Mathematical and Statistical Psychology</i> , <b>2006</b> , 59, 59-73	2.8	10
235	The Assessment of Knowledge, in Theory and in Practice. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 61-79	0.9	43

234	Formal Concept Analysis. <i>Lecture Notes in Computer Science</i> , <b>2006</b> ,	0.9	1
233	Finding a Fitting Learning Path in E-learning for Juvenile. <b>2007</b> ,		2
232	Cognitive Structural Modelling of Skills for Technology-Enhanced Learning. <b>2007</b> ,		7
231	Diagnostic, predictive and compositional modeling with data mining in integrated learning environments. <b>2007</b> , 49, 562-580		15
230	On the evaluation of fit measures for quasi-orders. <b>2007</b> , 53, 196-208		4
229	Nonparametric item response theory axioms and properties under nonlinearity and their exemplification with knowledge space theory. <i>Journal of Mathematical Psychology</i> , <b>2007</b> , 51, 383-400	1.2	7
228	Projection of a medium. <i>Journal of Mathematical Psychology</i> , <b>2008</b> , 52, 55-63	1.2	4
227	Distributed skill functions and the meshing of knowledge structures. <i>Journal of Mathematical Psychology</i> , <b>2008</b> , 52, 147-157	1.2	8
226	A characterization of the concept of independence in knowledge structures. <i>Journal of Mathematical Psychology</i> , <b>2008</b> , 52, 207-217	1.2	6
225	A note on monotone likelihood ratio of the total score variable in unidimensional item response theory. <i>British Journal of Mathematical and Statistical Psychology</i> , <b>2008</b> , 61, 179-87	2.8	9
224	A Study of the Effectiveness of Web-Based Homework in Teaching Undergraduate Business Statistics. <b>2008</b> , 6, 213-232		54
223	A formal framework for modelling the developmental course of competence and performance in the distance, speed, and time domain. <b>2008</b> , 28, 401-420		7
222	Developing Competence Assessment Procedure for Spinal Anaesthesia. <b>2008</b> ,		3
221	Micro Adaptive, Non-invasive Knowledge Assessment in Educational Games. <b>2008</b> ,		18
220	Modified item tree analysis of inductive reasoning data. <b>2008</b> , 11, 641-652		3
219	Activity- and taxonomy-based knowledge representation framework. <b>2008</b> , 4, 189		7
218	Supporting Self-Regulated Personalised Learning through Competence-Based Knowledge Space Theory. <b>2009</b> , 7, 645-661		13
217	Recovering a Probabilistic Knowledge Structure by Constraining its Parameter Space. <b>2009</b> , 74, 83-96		27

216	On verifying and engineering the wellgradedness of a union-closed family. <i>Journal of Mathematical Psychology</i> , <b>2009</b> , 53, 34-39	1.2	9
215	Note on two necessary and sufficient axioms for a well-graded knowledge space. <i>Journal of Mathematical Psychology</i> , <b>2009</b> , 53, 40-42	1.2	21
214	Inductive item tree analysis: Corrections, improvements, and comparisons. <b>2009</b> , 58, 376-392		20
213	. <b>2009</b> ,		9
212	Analyzing skill sets with or-relation tables in knowledge spaces. <b>2009</b> ,		1
211	Realtime Knowledge Space Skill Assessment for Personalized Digital Educational Games. <b>2009</b> ,		13
210	Knowledge space theory, formal concept analysis, and computerized psychological assessment. <b>2010</b> , 42, 342-50		30
209	Can We Make Definite Categorization of Student Attitudes? A Rough Set Approach to Investigate Students' Implicit Attitudinal Typologies Toward Living Things. <b>2010</b> , 19, 456-469		3
208	A Bayesian-optimal principle for learner-friendly adaptation in learning games. <i>Journal of Mathematical Psychology</i> , <b>2010</b> , 54, 247-255	1.2	14
207	A methodology for eliciting, modelling, and evaluating expert knowledge for an adaptive work-integrated learning system. <b>2010</b> , 68, 185-208		19
206	The Gain-Loss Model: A Probabilistic Skill Multimap Model for Assessing Learning Processes. <b>2010</b> , 47, 373-394		15
205	Micro-adaptivity: protecting immersion in didactically adaptive digital educational games. <b>2010</b> , 26, 95-105		102
204	Personalized, Adaptive Digital Educational Games Using Narrative Game-Based Learning Objects. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 438-445	0.9	25
203	Human-Computer Interaction. <b>2010</b> ,		1
202	Personalized Support, Guidance, and Feedback by Embedded Assessment and Reasoning: What We Can Learn from Educational Computer Games. <b>2010</b> , 142-151		2
201	Structures with Multirelations, their Discrete Dualities and Applications. <b>2010</b> , 100, 77-98		3
200	Entertainment for Education. Digital Techniques and Systems. <i>Lecture Notes in Computer Science</i> , <b>2010</b> ,	0.9	2
199	E-Learning: Developing a Simple Web-Based Intelligent Tutoring System Using Cognitive Diagnostic Assessment and Adaptive Testing Technology. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 23-34	0.9	4

198	Database Theory and Application, Bio-Science and Bio-Technology. <i>Communications in Computer and Information Science</i> , <b>2010</b> ,	0.3	
197	An Adaptive Method for Selecting Question Pools Using C4.5. <b>2010</b> ,		1
196	Optimal counterexamples expectation based method for knowledge space construction. <b>2010</b> ,		2
195	Serious Games Development and Applications. <i>Lecture Notes in Computer Science</i> , <b>2011</b> ,	0.9	3
194	Individualized Skill Assessment in Digital Learning Games: Basic Definitions and Mathematical Formalism. <b>2011</b> , 4, 138-148		24
193	Assessing learning processes with the gain-loss model. <b>2011</b> , 43, 66-76		13
192	On the Treatment of Incomparability in Ordering Semantics and Premise Semantics. <b>2011</b> , 40, 693-713		10
191	Apt to Adapt: Micro- and Macro-Level Adaptation in Educational Games. <i>Studies in Computational Intelligence</i> , <b>2011</b> , 221-238	0.8	3
190	Central Computer Science Concepts to Research-Based Teacher Training in Computer Science: An Experimental Study. <b>2012</b> , 46, 153-172		5
189	E-Learning Based on Metadata, Ontologies and Competence-Based Knowledge Space Theory. <i>Communications in Computer and Information Science</i> , <b>2012</b> , 24-36	0.3	4
188	A review of recent advances in learner and skill modeling in intelligent learning environments. <b>2012</b> , 22, 9-38		210
187	On the unidentifiability of a certain class of skill multi map based probabilistic knowledge structures. <i>Journal of Mathematical Psychology</i> , <b>2012</b> , 56, 248-255	1.2	27
186	Assessing the local identifiability of probabilistic knowledge structures. <b>2012</b> , 44, 1197-211		20
185	Book review. <i>Journal of Mathematical Psychology</i> , <b>2012</b> , 56, 392-394	1.2	
184	Uncovering the Best Skill Multimaps by Constraining the Error Probabilities of the Gain-Loss Model. <b>2012</b> , 77, 763-781		11
183	Improving Matrix Factorization Techniques of Student Test Data with Partial Order Constraints. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 346-350	0.9	1
182	Set-theoretic Approaches to Granular Computing. <b>2012</b> , 115, 247-264		25
181	Assessing parameter invariance in the BLIM: bipartition models. <b>2013</b> , 78, 710-24		17

180	Human-Computer Interaction and Knowledge Discovery in Complex, Unstructured, Big Data. <i>Lecture Notes in Computer Science</i> , <b>2013</b> ,	0.9	3
179	Problem solving learning environments and assessment: A knowledge space theory approach. <b>2013</b> , 64, 183-193		21
178	A consideration on success factors in product innovation from the viewpoints of value co-creation with customers. <b>2013</b> ,		
177	Minimum Discrepancy Estimation in Probabilistic Knowledge Structures. <b>2013</b> , 42, 49-56		26
176	A Procedure for Identifying the Best Skill Multimaps in the Gain-Loss Model. <b>2013</b> , 42, 9-16		5
175	Considerations about the identification of forward- and backward-graded knowledge structures. <i>Journal of Mathematical Psychology</i> , <b>2013</b> , 57, 249-254	1.2	22
174	Searching for the two sigma advantage: Evaluating algebra intelligent tutors. <b>2013</b> , 29, 1833-1840		14
173	The simplified updating rule in the formalization of digital educational games. <b>2013</b> , 4, 293-303		10
172	The Gain-Loss Model: Bias of the Parameter Estimates. <b>2013</b> , 42, 33-40		9
171	HUMANS. <b>2013</b> ,		5
170	Trajectory Mining on Capability Space: Its Concept and Potential Application. <b>2013</b> ,		
169	Detection of Misconceptions and Misleading Questions by Using Quantitative Diagnostic Assessment. <b>2014</b> , 12, 26-50		2
168	Identification Method of Directed Digraph in Organization Knowledge Unit. <b>2014</b> , 610, 673-679		
167	Measuring and Visualizing Learning in the Information-Rich Classroom. <b>2015</b> ,		4
166	Formal psychological assessment in evaluating depression: a new methodology to build exhaustive and irredundant adaptive questionnaires. <b>2015</b> , 10, e0122131		13
165	On the Creation of Representative Samples of Random Quasi-Orders. <b>2015</b> , 6, 1791		2
164	Untangling comparison bias in inductive item tree analysis based on representative random quasi-orders. <b>2015</b> , 76, 31-43		5
163	Individualized skill assessment in educational games: The mathematical foundations of partitioning. <i>Journal of Mathematical Psychology</i> , <b>2015</b> , 67, 1-7	1.2	6

162	Beyond the score: clinical evaluation through formal psychological assessment. <b>2015</b> , 97, 252-60		14
161	On the Link between Cognitive Diagnostic Models and Knowledge Space Theory. <b>2015</b> , 80, 995-1019		36
160	Naïve Tests of Basic Local Independence Model's Invariance. <b>2015</b> , 18, E26		3
159	Two-phase Blue-Red tree of rule-space model for the cognitive assessment evaluation and analysis [A case study of MTA course. <b>2015</b> ,		1
158	Automatic Game Progression Design through Analysis of Solution Features. <b>2015</b> ,		19
157	Toward a Principled Sampling Theory for Quasi-Orders. <b>2016</b> , 7, 1656		1
156	A recommendation system based on mining human portfolio for museum navigation. <b>2016</b> , 7, 145-158		5
155	An Upgrading Procedure for Adaptive Assessment of Knowledge. <b>2016</b> , 81, 461-82		8
154	Analysis of Large and Complex Data. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , <b>2016</b> ,	0.2	3
153	A possible future for next generation adaptive learning systems. <b>2016</b> , 3,		20
152	Model of Learning Assessment to Measure Student Learning: Inferring of Concept State of Cognitive Skill Level in Concept Space. <b>2016</b> ,		1
151	An iterative procedure for extracting skill maps from data. <b>2016</b> , 48, 729-41		16
150	A class of k-modes algorithms for extracting knowledge structures from data. <b>2017</b> , 49, 1212-1226		12
149	The assessment of knowledge and learning in competence spaces: The gain-loss model for dependent skills. <i>British Journal of Mathematical and Statistical Psychology</i> , <b>2017</b> , 70, 457-479	2.8	11
148	A Unified Framework for Knowledge Assessment and Progression Analysis and Design. <b>2017</b> ,		9
147	On the assessment of learning in competence based knowledge space theory. <i>Journal of Mathematical Psychology</i> , <b>2017</b> , 80, 22-32	1.2	12
146	On the properties of well-graded partially union-closed families. <i>Journal of Mathematical Psychology</i> , <b>2017</b> , 80, 15-21	1.2	1
145	A necessary and sufficient condition for unique skill assessment. <i>Journal of Mathematical Psychology</i> , <b>2017</b> , 79, 23-28	1.2	13

144	Validating domain ontologies: A methodology exemplified for concept maps. <b>2017</b> , 4, 1263006		4
143	Recommendation system based on rule-space model of two-phase blue-red tree and optimized learning path with multimedia learning and cognitive assessment evaluation. <b>2017</b> , 76, 18237-18264		5
142	Identifiability in probabilistic knowledge structures. <i>Journal of Mathematical Psychology</i> , <b>2017</b> , 77, 46-57 <sup>1.2</sup>	1.2	14
141	Improving Major Depressive Episode Assessment: A New Tool Developed by Formal Psychological Assessment. <b>2017</b> , 8, 214		9
140	Using and Collecting Fine-Grained Usage Data to Improve Online Learning Materials. <b>2017</b> ,		6
139	Testing the actual equivalence of automatically generated items. <b>2018</b> , 50, 39-56		1
138	Cognitive perspectives on opinion dynamics: the role of knowledge in consensus formation, opinion divergence, and group polarization. <b>2018</b> , 1, 15-48		5
137	Detecting and explaining BLIMB unidentifiability: Forward and backward parameter transformation groups. <i>Journal of Mathematical Psychology</i> , <b>2018</b> , 82, 38-51	1.2	13
136	Using knowledge space theory to compare expected and real knowledge spaces in learning stoichiometry. <b>2018</b> , 19, 670-680		2
135	The assessment of nonverbal behavior in schizophrenia through the Formal Psychological Assessment. <b>2018</b> , 27,		4
134	Learning meets assessment. <b>2018</b> , 45, 457-474		15
133	Guttman Algebras and a Model Checking Procedure for Guttman Scales. <b>2018</b> , 355-370		1
132	Identifiability of Probabilistic Models, with Examples from Knowledge Structure Theory. 128-184		
131	Predicting Learning Performance in Serious Games. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 133-144	0.9	
130	New Perspectives in the Adaptive Assessment of Depression: The ATS-PD Version of the QuEDS. <b>2018</b> , 9, 1101		2
129	KnowEdu: A System to Construct Knowledge Graph for Education. <b>2018</b> , 6, 31553-31563		57
128	Modelling Math Learning on an Open Access Intelligent Tutor. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 36-40	0.9	2
127	SIMPLIFY ITS: An intelligent tutoring system based on cognitive diagnosis models and spaced learning. <b>2018</b> ,		2

126	On the assessment of procedural knowledge: From problem spaces to knowledge spaces. <i>British Journal of Mathematical and Statistical Psychology</i> , <b>2019</b> , 72, 185-218	2.8	6
125	Connections and Dissimilarities Among Formal Concept Analysis, Knowledge Space Theory and Cognitive Diagnostic Models in a Systemic Perspective. <b>2019</b> , 235-241		
124	The application of minimum discrepancy estimation in implementation of cognitive diagnostic models. <b>2019</b> , 46, 453-481		
123	Epistemic foundations for set-algebraic representations of knowledge. <b>2019</b> , 84, 73-82		4
122	On a Generalization of Local Independence in Item Response Theory Based on Knowledge Space Theory. <b>2019</b> , 84, 395-421		4
121	Systemics of Incompleteness and Quasi-Systems. <b>2019</b> ,		4
120	A Data-Based Simulation Study of Reliability for an Adaptive Assessment Based on Knowledge Space Theory. <b>2019</b> , 29, 258-282		13
119	Assessment structures in psychological testing. <i>Journal of Mathematical Psychology</i> , <b>2019</b> , 91, 1-13	1.2	3
118	Location-Scale Matching for Approximate Quasi-Order Sampling. <b>2019</b> , 10, 1163		
117	Extracting partially ordered clusters from ordinal polytomous data. <b>2020</b> , 52, 503-520		3
116	On the polytomous generalization of knowledge space theory. <i>Journal of Mathematical Psychology</i> , <b>2020</b> , 94, 102306	1.2	8
115	Modeling misconceptions in knowledge space theory. <i>Journal of Mathematical Psychology</i> , <b>2020</b> , 99, 102435	1.2	0
114	Cognitive Diagnosis Modeling Incorporating Item-Level Missing Data Mechanism. <b>2020</b> , 11, 564707		0
113	Extending the Basic Local Independence Model to Polytomous Data. <b>2020</b> , 85, 684-715		2
112	Stat-Knowlab. Assessment and Learning of Statistics with Competence-based Knowledge Space Theory. <b>2020</b> , 30, 668-700		4
111	An application of activity theory to the "problem of e-books". <b>2020</b> , 6, e04982		1
110	On the necessary and sufficient conditions for delineating forward- and backward-graded knowledge structures from skill maps. <i>Journal of Mathematical Psychology</i> , <b>2020</b> , 99, 102451	1.2	2
109	Notes on attribution functions. <i>British Journal of Mathematical and Statistical Psychology</i> , <b>2021</b> , 74 Suppl 1, 131-156	2.8	1

108	Representing probabilistic models of knowledge space theory by multinomial processing tree models. <i>Journal of Mathematical Psychology</i> , <b>2020</b> , 96, 102329	1.2	0
107	BLIMB identifiability and parameter invariance under backward and forward transformations. <i>Journal of Mathematical Psychology</i> , <b>2020</b> , 95, 102314	1.2	4
106	Knowledge structures delineated by fuzzy skill maps. <b>2021</b> , 407, 50-66		4
105	Are We There Yet? Evaluating the Effectiveness of a Recurrent Neural Network-Based Stopping Algorithm for an Adaptive Assessment. <b>2021</b> , 31, 304-336		5
104	On the empirical indistinguishability of knowledge structures. <i>British Journal of Mathematical and Statistical Psychology</i> , <b>2021</b> , 74, 465-486	2.8	0
103	A practical perspective on knowledge space theory: ALEKS and its data. <i>Journal of Mathematical Psychology</i> , <b>2021</b> , 101, 102512	1.2	4
102	Generalizing quasi-ordinal knowledge spaces to polytomous items. <i>Journal of Mathematical Psychology</i> , <b>2021</b> , 101, 102515	1.2	4
101	Curriculum spaces and mathematical models for curriculum design. <i>Journal of Mathematical Psychology</i> , <b>2021</b> , 102, 102523	1.2	0
100	Some considerations on the factorization of state probabilities in knowledge structures. <i>Journal of Mathematical Psychology</i> , <b>2021</b> , 102, 102542	1.2	1
99	On the correspondence between knowledge structures and attribution functions. <i>Journal of Mathematical Psychology</i> , <b>2021</b> , 103, 102564	1.2	1
98	Modeling learning in knowledge space theory through bivariate Markov processes. <i>Journal of Mathematical Psychology</i> , <b>2021</b> , 103, 102549	1.2	0
97	Generalized inductive item tree analysis. <i>Journal of Mathematical Psychology</i> , <b>2021</b> , 103, 102547	1.2	1
96	Skills and fuzzy knowledge structures. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2021</b> , 1-17	1.6	1
95	Rough set approaches in knowledge structures. <b>2021</b> , 138, 78-88		1
94	Building Dynamic, Ontology-Based Alternative Paths for GIS&T Curricula. 97-115		3
93	Adaptive assessment and training using the neighbourhood of knowledge states. <i>Lecture Notes in Computer Science</i> , <b>1996</b> , 578-586	0.9	10
92	The Construction of Knowledge Spaces by Querying Experts. <i>Recent Research in Psychology</i> , <b>1994</b> , 137-147		3
91	A Dichotomization Method for Boolean Analysis of Quantifiable Co-Occurrence Data. <i>Recent Research in Psychology</i> , <b>1994</b> , 389-402		3

90	Finite Markov Learning Models for Knowledge Structures. <i>Recent Research in Psychology</i> , <b>1994</b> , 75-89		1
89	Stochastic Learning Paths [Estimation and Simulation. <i>Recent Research in Psychology</i> , <b>1994</b> , 91-110		1
88	Knowledge Spaces and Skill Assignments. <i>Recent Research in Psychology</i> , <b>1994</b> , 111-121		24
87	Deep (Un)Learning: Using Neural Networks to Model Retention and Forgetting in an Adaptive Learning System. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 258-269	0.9	4
86	Using Recurrent Neural Networks to Build a Stopping Algorithm for an Adaptive Assessment. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 179-184	0.9	2
85	Biasing Effects of Non-Representative Samples of Quasi-Orders in the Assessment of Recovery Quality of IITA-Type Item Hierarchy Mining. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , <b>2016</b> , 563-573	0.2	2
84	Merging Adaptive Hypermedia and Intelligent Tutoring Systems Using Knowledge Spaces. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 426-430	0.9	2
83	Competence Assessment for Spinal Anaesthesia. <b>2007</b> , 165-170		4
82	Granular Structures and Approximations in Rough Sets and Knowledge Spaces. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 71-84	0.8	3
81	Knowledge Spaces. <b>2011</b> , 43-60		2
80	Applying a Web and Simulation-Based System for Adaptive Competence Assessment of Spinal Anaesthesia. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 182-191	0.9	5
79	Getting to Know Your User [Unobtrusive User Model Maintenance within Work-Integrated Learning Environments. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 73-87	0.9	25
78	The R Package DAKS: Basic Functions and Complex Algorithms in Knowledge Space Theory. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , <b>2010</b> , 263-270	0.2	1
77	Personalized Storytelling for Educational Computer Games. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 13-22	0.9	2
76	Visualization of Learner's State and Learning Paths with Knowledge Structures. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 261-270	0.9	2
75	Establishing knowledge spaces by systematical problem construction. <b>1994</b> , 81-115		9
74	The Interface Among Data Analysis, Marketing, and Representation of Knowledge. <b>1988</b> , 10-15		1
73	Knowledge Spaces and Formal Concept Analysis. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , <b>1996</b> , 427-436	0.2	10

72	A Procedure for Facilitating an Expert's Judgements on a Set of Rules. <i>Recent Research in Psychology</i> , <b>1989</b> , 157-170		9
71	Student Profile Scoring for Formative Assessment. <b>2003</b> , 81-92		3
70	USER KNOWLEDGE EVALUATION: AN EXPERIMENT WITH UNIX <b>1987</b> , 151-156		1
69	THE DIAGNOSIS OF USER STRATEGIES. <b>1987</b> , 125-189		3
68	Theory-based knowledge modeling in a subdomain of elementary algebra. <i>Zeitschrift Fuer Psychologie Mit Zeitschrift Fuer Angewandte Psychologie</i> , <b>2001</b> , 209, 277-315		1
67	A Note on the Connection Between Knowledge Structures and Latent Class Models. <i>Methodology</i> , <b>2011</b> , 7, 63-67	1.2	8
66	Exploiting Prior Information in Stochastic Knowledge Assessment. <i>Methodology</i> , <b>2012</b> , 8, 12-22	1.2	9
65	Observed hierarchy of student proficiency with period, frequency, and angular frequency. <i>Physical Review Physics Education Research</i> , <b>2018</b> , 14,	2.3	2
64	Studying Retrieval Practice in an Intelligent Tutoring System. <b>2020</b> ,		4
63	Set-Theoretic Formulation of Granular Computing. <i>Jisuanji Xuebao/Chinese Journal of Computers</i> , <b>2012</b> , 35, 351-363		16
62	Psychometrics of MOOCs: Measuring Learners' Proficiency. <i>Psychologica Belgica</i> , <b>2020</b> , 60, 115-131	0.6	2
61	Memantine: New prospective in bipolar disorder treatment. <i>World Journal of Psychiatry</i> , <b>2014</b> , 4, 80-90	3	23
60	Diagnostic Tests Based on Knowledge States. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 133-141	0.9	
59	Rough Set Approximations on Granular Structures and Feature Characterizations. <i>Communications in Computer and Information Science</i> , <b>2010</b> , 79-88	0.3	
58	Overview and Basic Mathematical Concepts. <b>2011</b> , 1-21		
57	Galois Connections*. <b>2011</b> , 133-150		
56	Knowledge Structures and Learning Spaces. <b>2011</b> , 23-41		2
55	Surmise Systems. <b>2011</b> , 81-101		

54	Context-Aware Recommendation for Work-Integrated Learning. <b>2011</b> , 275-301		
53	Personalized, Adaptive Digital Educational Games using Narrative Game-Based Learning Objects. <b>2013</b> , 74-84		5
52	Using Hasse Diagrams for Competence-Oriented Learning Analytics. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 59-64	0.9	1
51	Factors and Skills. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 173-187	0.9	2
50	On Knowledge Spaces and Item Testing. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 141-156	0.9	
49	An Analysis of Knowledge Space Concept and Recursive Approach for Servitizing in Manufacturing Industries. <i>Advances in Marketing, Customer Relationship Management, and E-services Book Series</i> , <b>2014</b> , 273-291	0.3	1
48	Bibliography. <b>1987</b> , 433-460		
47	Constructing Knowledge Spaces from Judgements with Differing Degrees of Certainty. <i>Recent Research in Psychology</i> , <b>1991</b> , 221-231		
46	INDIVIDUALIZED COURSE GENERATION: A MARRIAGE BETWEEN CAL AND ICAL. <b>1994</b> , 57-64		
45	Integrating Different Knowledge Spaces. <i>Recent Research in Psychology</i> , <b>1994</b> , 149-158		2
44	Combinatorial structures for the representation of knowledge. <b>1994</b> , 59-79		
43	Qualitativ-strukturelle Wissensmodellierung in der elementaren Teilbarkeitslehre 1Der vorliegende Beitrag ist die Ausarbeitung eines Vortrages mit dem Titel Kompetenz und Performanz beim Lösen von Aufgaben aus der elementaren Teilbarkeitslehre auf der 39. Tagung experimentell arbeitender Psychologinnen und Psychologen in Bonn, Berlin, 1997. 574-601, <i>Experimentelle Psychologie und Diagnostik</i> , <b>1997</b> , 574-601	1.5	
42	Knowledge Structure Analysis System for Critical Learning Pathway. <i>Journal of Internet Computing and Services</i> , <b>2015</b> , 16, 39-46		
41	Recommended System for Cognitive Assessment Evaluation Based on Two-Phase Blue-Red Tree of Rule-Space Model: A Case Study of MTA Course. <i>Lecture Notes in Electrical Engineering</i> , <b>2016</b> , 117-132	0.2	
40	Co-creating and Implementing Service Values into New Electronic Products:. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2017</b> , 137, 379-386	0.1	
39	Introduction: From Latent Classes to Cognitive Diagnostic Models. <i>Methodology of Educational Measurement and Assessment</i> , <b>2019</b> , 1-17	0.6	1
38	Reducing Energy Consumption by Behavioural Change. <i>Smart Innovation, Systems and Technologies</i> , <b>2021</b> , 257-268	0.5	
37	Fluid Interface Concept for Automated Driving. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 114-130	0.9	1

36	A new perspective on technology-driven creativity enhancement in the Fourth Industrial Revolution. <i>Creativity and Innovation Management</i> ,	2.7	5
35	Approximately counting and sampling knowledge states. <i>British Journal of Mathematical and Statistical Psychology</i> , <b>2021</b> ,	2.8	1
34	Personalized, Adaptive Digital Educational Games using Narrative Game-Based Learning Objects. 281-291		
33	A note on the separability of items in knowledge structures delineated by skill multimaps. <i>Journal of Mathematical Psychology</i> , <b>2020</b> , 98, 102427	1.2	0
32	Constructing, improving, and shortening tests for skill assessment. <i>Journal of Mathematical Psychology</i> , <b>2022</b> , 106, 102621	1.2	1
31	A neuroevolutionary method for knowledge space construction. <i>Computer Science and Information Systems</i> , <b>2022</b> , 4-4	0.8	
30	Complete Q-matrices in conjunctive models on general attribute structures.. <i>British Journal of Mathematical and Statistical Psychology</i> , <b>2022</b> ,	2.8	
29	Applying Exploratory Search for Self-Paced Learning using Tagging. <b>2021</b> ,		
28	Toward a Design Theory of User-Centered Score Mechanics for Gamified Competency Development. <i>Information Systems Management</i> , 1-27	3.1	0
27	Power skill training knowledge base construction based on knowledge map and improved FP-Growth. <b>2021</b> ,		0
26	SOLO taxonomy-based knowledge structure with subjective items. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2022</b> , 1-14	1.6	1
25	A New Approach of Knowledge Reduction in Knowledge Context Based on Boolean Matrix. <i>Symmetry</i> , <b>2022</b> , 14, 850	2.7	
24	Data_Sheet_1.PDF. <b>2020</b> ,		
23	Competence-Based Skill Functions and Minimal Sets of Skills. <i>Symmetry</i> , <b>2022</b> , 14, 884	2.7	
22	Learning, forgetting, and the correlation of knowledge in knowledge space theory. <i>Journal of Mathematical Psychology</i> , <b>2022</b> , 109, 102674	1.2	
21	Notes on the polytomous generalization of knowledge space theory. <i>Journal of Mathematical Psychology</i> , <b>2022</b> , 109, 102672	1.2	1
20	Minimal Generators from Positive and Negative Attributes: Analysing the Knowledge Space of a Mathematics Course. <b>2022</b> , 15,		
19	Knowledge tracing: A bibliometric analysis. <b>2022</b> , 3, 100090		0

18	CMKT: Concept Map Driven Knowledge Tracing. <b>2022</b> , 15, 467-480	2
17	Three Algorithms for Grouping Students: A Bridge Between Personalized Tutoring System Data and Classroom Pedagogy.	0
16	Constructing polytomous knowledge structures from fuzzy skills. <b>2022</b> ,	1
15	On Galois connections between polytomous knowledge structures and polytomous attributions. <b>2022</b> , 110, 102708	0
14	Multiview granular data analytics based on three-way concept analysis.	1
13	Empirical indistinguishability: From the knowledge structure to the skills.	0
12	Knowledge View. <b>2023</b> , 3-14	0
11	Knowledge-Oriented Servitization Management Model. <b>2023</b> , 31-46	0
10	Algorithms for the adaptive assessment of procedural knowledge and skills.	0
9	Theoretical evaluation of partial credit scoring of the multiple-choice test item.	0
8	Assessment-based correct rates in learning spaces. <b>2023</b> , 112, 102740	0
7	On the correspondence between granular polytomous spaces and polytomous surmising functions. <b>2023</b> , 113, 102743	0
6	Well-graded polytomous knowledge structures. <b>2023</b> , 114, 102770	0
5	Special issue on knowledge structures: Theoretical developments and applications. <b>2023</b> , 114, 102773	0
4	Qualitative motivation with sets and relations. 13,	0
3	A novel concept-cognitive learning method: A perspective from competences. <b>2023</b> , 265, 110382	0
2	Knowledge structure construction and skill reduction methods based on multi-scale context. 1-20	0
1	Extension of semi-Lipschitz maps on non-subadditive quasi-metric spaces: new tools for Artificial Intelligence. 1-24	0

