

# CITATION REPORT

List of articles citing

## Two views of the theory of rough sets in finite universes

DOI: 10.1016/s0888-613x(96)00071-0  
International Journal of Approximate Reasoning, 1996,  
15, 291-317.

**Source:** <https://exaly.com/paper-pdf/27422875/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
472	Generalized probabilistic rough set models.		2
471	Interpretations of belief functions in the theory of rough sets. <i>Information Sciences</i> , <b>1998</b> , 104, 81-106	7.7	99
470	Relational interpretations of neighborhood operators and rough set approximation operators. <i>Information Sciences</i> , <b>1998</b> , 111, 239-259	7.7	637
469	On Generalizing Pawlak Approximation Operators. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 298-307	0.9	63
468	Modal reasoning and rough set theory. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 317-330	0.9	2
467	On Rough Relations: An Alternative Formulation. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 82-90	0.9	9
466	Granular Computing using Neighborhood Systems. <b>1999</b> , 539-553		58
465	Advances in Soft Computing. <b>1999</b> ,		7
464	On links between mathematical morphology and rough sets. <b>2000</b> , 33, 1487-1496		38
463	AN OVERVIEW OF ROUGH SET SEMANTICS FOR MODAL AND QUANTIFIER LOGICS. <b>2000</b> , 08, 93-118		23
462	Generation of non-transitive chains from rational-valued and real-valued fuzzy subsets under rough set theory.		
461	Generalizations of Rough Sets : Rough sets under similarity, fuzzy and dominance relations. <b>2001</b> , 13, 562-570		1
460	Rough set theory applied to (fuzzy) ideal theory. <b>2001</b> , 121, 315-324		84
459	Information granulation and rough set approximation. <b>2001</b> , 16, 87-104		408
458	Applying modifiers to knowledge acquisition. <i>Information Sciences</i> , <b>2001</b> , 134, 39-51	7.7	11
457	Rough sets and interval fuzzy sets.		1
456	Advances in Soft Computing IAFSS 2002. <i>Lecture Notes in Computer Science</i> , <b>2002</b> ,	0.9	10

455	Connections between rough set theory and Dempster-Shafer theory of evidence. <b>2002</b> , 31, 405-430		102
454	A Proposal of Probability of Rough Event Based on Probability of Fuzzy Event. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 357-364	0.9	2
453	GENERALIZED FUZZY ROUGH SETS BY CONDITIONAL PROBABILITY RELATIONS. <b>2002</b> , 16, 865-881		15
452	Generalization of Rough sets and its applications in information system. <b>2002</b> , 6, 323-339		1
451	Double-faced rough sets and rough communication. <i>Information Sciences</i> , <b>2002</b> , 148, 41-53	7.7	14
450	On relationships among fuzzy approximation operators, fuzzy topology, and fuzzy automata. <b>2003</b> , 138, 197-204		28
449	Intuitionistic fuzzy rough sets: at the crossroads of imperfect knowledge. <b>2003</b> , 20, 260-270		133
448	Probabilistic approaches to rough sets. <b>2003</b> , 20, 287-297		267
447	A rough set approach to knowledge reduction based on inclusion degree and evidence reasoning theory. <b>2003</b> , 20, 298-304		73
446	Two Directions toward Generalization of Rough Sets. <i>Studies in Fuzziness and Soft Computing</i> , <b>2003</b> , 47-50.7		8
445	Rough and fuzzy geographical data integration. <b>2003</b> , 17, 223-234		50
444	On Generalizing Rough Set Theory. <b>2003</b> , 44-51		73
443	Granular Computing Based on Rough Sets, Quotient Space Theory, and Belief Functions. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 152-159	0.9	25
442	Approximation Operators in Qualitative Data Analysis. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 214-230.9	0.9	47
441	Function Approximation by Fuzzy Rough Sets. <b>2003</b> , 93-104		3
440	Characteristic Relations for Incomplete Data: A Generalization of the Indiscernibility Relation. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 244-253	0.9	47
439	Data with Missing Attribute Values: Generalization of Indiscernibility Relation and Rule Induction. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 78-95	0.9	140
438	A Partition Model of Granular Computing. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 232-253	0.9	168

437	A Comparative Study of Formal Concept Analysis and Rough Set Theory in Data Analysis. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 59-68	0.9	138
436	Quasi-discrete closure space and generalized rough approximate space based on binary relation.		
435	Rough Sets and Current Trends in Computing. <i>Lecture Notes in Computer Science</i> , <b>2004</b> ,	0.9	16
434	Granular computing for binary relations: clustering and axiomatic granular operators. <b>2004</b> ,		0
433	Generalizations of rough equalities.		
432	Constructive and axiomatic approaches of fuzzy approximation operators. <i>Information Sciences</i> , <b>2004</b> , 159, 233-254	7.7	329
431	An axiomatic characterization of a fuzzy generalization of rough sets. <i>Information Sciences</i> , <b>2004</b> , 160, 235-249	7.7	253
430	Uncertainty Theory. <i>Studies in Fuzziness and Soft Computing</i> , <b>2004</b> ,	0.7	321
429	Rough set approximations in formal concept analysis. <b>2004</b> ,		38
428	Rough Set Models on Two universes. <b>2004</b> , 33, 569-581		84
427	On The Generalization of Fuzzy Rough Approximation Based on Asymmetric Relation. <b>2005</b> , 73-88		
426	A method of multi-agent system conflict analysis based on rough set theory. <b>2005</b> ,		0
425	On the topological properties of fuzzy rough sets. <b>2005</b> , 151, 601-613		148
424	On characterizations of (I,T)-fuzzy rough approximation operators. <b>2005</b> , 154, 76-102		174
423	Rough operations on Boolean algebras. <i>Information Sciences</i> , <b>2005</b> , 173, 49-63	7.7	44
422	Subsystem Based Generalizations of Rough Set Approximations. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 210-218	0.9	13
421	On the generalization of fuzzy rough sets. <b>2005</b> , 13, 343-361		305
420	A HISTORICAL OVERVIEW OF FUZZY MATHEMATICS. <b>2005</b> , 01, 1-26		12

419 Topological structures of rough sets over fuzzy lattices. **2005,**

418 New Approach for Basic Rough Set Concepts. *Lecture Notes in Computer Science, 2005, 64-73* 0.9 22

417 Rough sets on atomic Boolean lattices. **2005,**

416 Study of Integrate Models of Rough Sets and Grey Systems. *Lecture Notes in Computer Science, 2005, 1313-1323* 0.9 4

415 A generalized model of fuzzy rough sets. **2005, 34, 603-613** 66

414 A model of granular computing based on rough set theory. **2005,**

413 Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing. *Lecture Notes in Computer Science, 2005,* 0.9 2

412 Fuzzy Rough Sets as a Pair of Fuzzy Numbers: A New Approach and New Findings. **2006,** 0

411 Roughness Bounds in Set-oriented Rough Set Operations. **2006,** 2

410 On Generalized Rough Fuzzy Approximation Operators. *Lecture Notes in Computer Science, 2006, 263-284.* 0.9 25

409 The minimization of axiom sets characterizing generalized approximation operators. *Information Sciences, 2006, 176, 887-899* 7.7 41

408 Set-valued information systems. *Information Sciences, 2006, 176, 2507-2525* 7.7 118

407 Roughness bounds in rough set operations. *Information Sciences, 2006, 176, 3256-3267* 7.7 13

406 Approximate distances, pointless geometry and incomplete information. **2006, 157, 2371-2383** 3

405 Uncertainty Measure of Covering Generated Rough Set. **2006,** 7

404 The Minimal Sets of Axioms Characterizing Rough Fuzzy Approximation Operators. **2006,**

403 An Axiomatic Interpretation of Interval Generalized Incidence Calculus. **2006,**

402 Relationships among three types of covering rough sets. **2006,** 45

401	Some Topological Properties of Rough Approximation Spaces. <b>2006</b> ,		0
400	Transactions on Rough Sets V. <i>Lecture Notes in Computer Science</i> , <b>2006</b> ,	0.9	
399	Spatial Information Theory. <i>Lecture Notes in Computer Science</i> , <b>2007</b> ,	0.9	0
398	Decision-Theoretic Rough Set Models. <b>2007</b> , 1-12		150
397	On Covering Rough Sets. <b>2007</b> , 34-41		57
396	Rough Sets and Zadeh's Extension Principles. <b>2007</b> ,		2
395	Rough Set Model with Double Universe of Discourse. <b>2007</b> ,		1
394	Definability of Approximations for a Generalization of the Indiscernibility Relation. <b>2007</b> ,		10
393	A Novel Approach to Roughness Measure in Fuzzy Rough Sets. <b>2007</b> , 775-780		4
392	Granular Computing. <b>2007</b> ,		8
391	Construction of rough approximations in fuzzy setting. <b>2007</b> , 158, 2641-2653		45
390	Topological approaches to covering rough sets. <i>Information Sciences</i> , <b>2007</b> , 177, 1499-1508	7.7	377
389	Minimization of axiom sets on fuzzy approximation operators. <i>Information Sciences</i> , <b>2007</b> , 177, 3840-3854	7.7	22
388	Generalized topologies generated by subbases. <b>2007</b> , 114, 1-12		6
387	Approximations in n-ary algebraic systems. <i>Soft Computing</i> , <b>2007</b> , 12, 409-418	3.5	28
386	Knowledge distance in information systems. <b>2007</b> , 16, 434-449		6
385	Rough fuzzy approximations on two universes of discourse. <i>Information Sciences</i> , <b>2008</b> , 178, 892-906	7.7	80
384	Generalized rough sets over fuzzy lattices. <i>Information Sciences</i> , <b>2008</b> , 178, 1651-1662	7.7	99

383	Rough set theory for the interval-valued fuzzy information systems. <i>Information Sciences</i> , <b>2008</b> , 178, 1968-1985	7.7	80
382	Generalized fuzzy rough sets determined by a triangular norm. <i>Information Sciences</i> , <b>2008</b> , 178, 3203-3213	7.7	124
381	A short note on algebraic T-rough sets. <i>Information Sciences</i> , <b>2008</b> , 178, 3247-3252	7.7	50
380	The algebraic structures of generalized rough set theory. <i>Information Sciences</i> , <b>2008</b> , 178, 4105-4113	7.7	160
379	Generalized rough sets based on reflexive and transitive relations. <i>Information Sciences</i> , <b>2008</b> , 178, 4138-4141	7.7	95
378	Rough approximation operators on two universes of discourse and their fuzzy extensions. <b>2008</b> , 159, 3033-3050		23
377	A rough set approach for the discovery of classification rules in interval-valued information systems. <i>International Journal of Approximate Reasoning</i> , <b>2008</b> , 47, 233-246	3.6	136
376	Probabilistic rough set approximations. <i>International Journal of Approximate Reasoning</i> , <b>2008</b> , 49, 255-273	3.6	434
375	Axiomatic systems for rough sets and fuzzy rough sets. <i>International Journal of Approximate Reasoning</i> , <b>2008</b> , 48, 857-867	3.6	75
374	Generalisation of roughness bounds in rough set operations. <i>International Journal of Approximate Reasoning</i> , <b>2008</b> , 48, 868-878	3.6	10
373	Fuzzy Sets and Their Extensions: Representation, Aggregation and Models. <b>2008</b> ,		44
372	Rough set theory and its application in the intelligent systems. <b>2008</b> ,		4
371	Rough Sets and Current Trends in Computing. <i>Lecture Notes in Computer Science</i> , <b>2008</b> ,	0.9	8
370	Global roughness of approximation and boundary rough sets. <b>2008</b> ,		6
369	Evolutionary Rough k-Medoid Clustering. <b>2008</b> , 289-306		26
368	Linear structure of fuzzy rough sets. <b>2008</b> ,		
367	Local and Global Approximations for Incomplete Data. <b>2008</b> , 21-34		10
366	The Category RSC of I-Rough Sets. <b>2008</b> ,		7

- 365 A method to select optimal feature parameters of radar targets based on rough set theory. **2008**,
- 364 CHOICE FUNCTIONS AND UPPER CHOICE FUNCTIONS. **2008**, 04, 177-190 1
- 363 Rough probability and rough expected value models. **2008**,
- 362 Data Mining: Foundations and Practice. **2008**, 9
- 361 Transactions on Rough Sets VIII. **2008**, 2
- 360 A Rough Set Approach for the Discovery of Classification Rules in Interval-Valued Information Systems. **2008**,
- 359 Pairwise Comparisons Based Non-Numerical Ranking. **2009**, 94, 197-217 10
- 358 MODELING OF COGNITIVE STRUCTURE OF UNCERTAIN SCIENTIFIC CONCEPTS USING FUZZY-ROUGH SETS AND INTUITIONISTIC FUZZY SETS: EXAMPLE OF THE LIFE CONCEPT. **2009**, 17, 747-769 7
- 357 Lattices with Interior and Closure Operators and Abstract Approximation Spaces. *Lecture Notes in Computer Science*, **2009**, 67-116 0.9 19
- 356 On generalized fuzzy rough sets. **2009**, 38, 255-271 5
- 355 On structure of generalized intuitionistic fuzzy rough sets. **2009**, 2
- 354 ((bot „top))-Generalized Fuzzy Rough Sets Based on Fuzzy Composition Operations. **2009**, 647-659 5
- 353 Theory and Practice of Uncertain Programming. *Studies in Fuzziness and Soft Computing*, **2009**, 0.7 305
- 352 On strong Pawlak algebras. **2009**,
- 351 Combining ICS semantic factor into concept similarity evaluating based on RFCA. **2009**,
- 350 An axiomatic approach of fuzzy rough sets based on residuated lattices. **2009**, 58, 189-201 122
- 349 Statistically grounded logic operators in fuzzy sets. **2009**, 193, 520-529 32
- 348 Algorithm and axiomatization of rough fuzzy sets based finite dimensional fuzzy vectors. **2009**, 3, 560-568 2



347	A comparison of two types of rough sets induced by coverings. <i>International Journal of Approximate Reasoning</i> , <b>2009</b> , 50, 521-528	3.6	137
346	Algebraic aspects of generalized approximation spaces. <i>International Journal of Approximate Reasoning</i> , <b>2009</b> , 51, 151-161	3.6	14
345	On characterization of intuitionistic fuzzy rough sets based on intuitionistic fuzzy implicators. <i>Information Sciences</i> , <b>2009</b> , 179, 883-898	7.7	89
344	Financial time-series analysis with rough sets. <b>2009</b> , 9, 1000-1007		51
343	Attribute reduction of formal decision contexts. <b>2009</b> ,		
342	Advances in Computational Intelligence. <i>Advances in Intelligent and Soft Computing</i> , <b>2009</b> ,		4
341	On intuitionistic fuzzy rough sets and their topological structures. <b>2009</b> , 38, 589-616		33
340	Algebraic Method of the Theory of Rough Sets over Two Universes. <b>2009</b> ,		1
339	Some implication operators on interval sets and rough sets. <b>2009</b> ,		5
338	Interval sets and interval-set algebras. <b>2009</b> ,		27
337	Lattice-valued interval sets and t-representable interval set t-norms. <b>2009</b> ,		7
336	Approximation Algebra and Framework. <b>2009</b> , 94, 147-161		16
335	Capturing uncertainty in associative classification model. <b>2009</b> ,		1
334	Transactions on Rough Sets X. <i>Lecture Notes in Computer Science</i> , <b>2009</b> ,	0.9	
333	Rough set theory based on two universal sets and its applications. <b>2010</b> , 23, 110-115		97
332	IF-topologies and IF-automata. <i>Soft Computing</i> , <b>2010</b> , 14, 571-578	3.5	8
331	A rough set approach for selecting clustering attribute. <b>2010</b> , 23, 220-231		110
330	Research on the model of rough set over dual-universes. <b>2010</b> , 23, 817-822		52

329	Gaussian kernel based fuzzy rough sets: Model, uncertainty measures and applications. <i>International Journal of Approximate Reasoning</i> , <b>2010</b> , 51, 453-471	3.6	163
328	An application of covering approximation spaces on network security. <b>2010</b> , 60, 1191-1199		14
327	A new extension of fuzzy sets using rough sets: R-fuzzy sets. <i>Information Sciences</i> , <b>2010</b> , 180, 354-365	7.7	40
326	Roughness in MV-algebras. <i>Information Sciences</i> , <b>2010</b> , 180, 737-747	7.7	30
325	Textural approach to generalized rough sets based on relations. <i>Information Sciences</i> , <b>2010</b> , 180, 1418-1433	7.7	25
324	Fuzzy preference based rough sets. <i>Information Sciences</i> , <b>2010</b> , 180, 2003-2022	7.7	101
323	Invertible approximation operators of generalized rough sets and fuzzy rough sets. <i>Information Sciences</i> , <b>2010</b> , 180, 2221-2229	7.7	44
322	Rough implication operator based on strong topological rough algebras. <i>Information Sciences</i> , <b>2010</b> , 180, 3764-3780	7.7	22
321	Study of staff performance assessment based on hierarchical rough set. <b>2010</b> ,		
320	Partial approximative set theory: A generalization of the rough set theory. <b>2010</b> ,		3
319	Definability and Other Properties of Approximations for Generalized Indiscernibility Relations. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 14-39	0.9	9
318	Rough set method for remote sense image classification and information fusion. <b>2010</b> ,		
317	Fuzzy Rough Set Model Based on Multi-fuzzy Granulations. <b>2010</b> ,		1
316	Transactions on Rough Sets XII. <i>Lecture Notes in Computer Science</i> , <b>2010</b> ,	0.9	
315	Indiscernibility relations on partially ordered sets. <b>2011</b> ,		1
314	High Performance Networking, Computing, and Communication Systems. <b>2011</b> ,		
313	New topological approach of rough set generalizations. <b>2011</b> , 88, 1347-1357		1
312	Transactions on Rough Sets XIII. <i>Lecture Notes in Computer Science</i> , <b>2011</b> ,	0.9	1

311	Nonlinear Mathematics for Uncertainty and its Applications. <i>Advances in Intelligent and Soft Computing</i> , <b>2011</b> ,		1
310	Approximation of sets based on partial covering. <b>2011</b> , 412, 5820-5833		10
309	Diverse reduct subspaces based co-training for partially labeled data. <i>International Journal of Approximate Reasoning</i> , <b>2011</b> , 52, 1103-1117	3.6	34
308	On intuitionistic fuzzy topologies based on intuitionistic fuzzy reflexive and transitive relations. <i>Soft Computing</i> , <b>2011</b> , 15, 1183-1194	3.5	21
307	A class of dynamic rough partitive algorithms. <b>2011</b> , 26, 540-554		3
306	Characterization of rough set approximations in Atanassov intuitionistic fuzzy set theory. <b>2011</b> , 62, 282-296		40
305	Topology vs generalized rough sets. <i>International Journal of Approximate Reasoning</i> , <b>2011</b> , 52, 231-239	3.6	80
304	Generalizations of rough set concepts. <b>2011</b> , 23, 17-21		3
303	A comparison of two types of generalized rough sets. <b>2011</b> ,		2
302	A New Rough Set Model Based on Partial-Similarity Relation. <b>2012</b> ,		
301	On covering generalized rough set: Covering rough membership function. <b>2012</b> ,		
300	Topologies associated with rough automata. <b>2012</b> ,		
299	Homomorphisms of Approximation Spaces. <b>2012</b> , 2012, 1-18		
298	The expansion of the definition of granular sets. <b>2012</b> ,		
297	Topological structure of rough sets in reflexive and transitive relations. <b>2012</b> ,		1
296	Products of Mealy-type rough finite state machines. <b>2012</b> ,		
295	Rough set over dual-universes in general incomplete information system. <b>2012</b> ,		
294	A general frame for intuitionistic fuzzy rough sets. <i>Information Sciences</i> , <b>2012</b> , 216, 34-49	7.7	102

293	Topological Characterization of Rough Set on Two Universal Sets and Knowledge Representation. <b>2012</b> , 68-81		3
292	On the structure of the multigranulation rough set model. <b>2012</b> , 36, 81-92		94
291	Dynamic clustering with soft computing. <b>2012</b> , 2, 226-236		6
290	Nearness approximation space based on axiomatic fuzzy sets. <i>International Journal of Approximate Reasoning</i> , <b>2012</b> , 53, 200-211	3.6	13
289	Comparative study of variable precision rough set model and graded rough set model. <i>International Journal of Approximate Reasoning</i> , <b>2012</b> , 53, 104-116	3.6	42
288	Entropy and co-entropy of a covering approximation space. <i>International Journal of Approximate Reasoning</i> , <b>2012</b> , 53, 528-540	3.6	23
287	Matroidal approaches to rough sets via closure operators. <i>International Journal of Approximate Reasoning</i> , <b>2012</b> , 53, 513-527	3.6	56
286	Definability and textures. <i>International Journal of Approximate Reasoning</i> , <b>2012</b> , 53, 558-572	3.6	14
285	Probabilistic rough set over two universes and rough entropy. <i>International Journal of Approximate Reasoning</i> , <b>2012</b> , 53, 608-619	3.6	76
284	Grey sets and greyness. <i>Information Sciences</i> , <b>2012</b> , 185, 249-264	7.7	58
283	A class of rough multiple objective programming and its application to solid transportation problem. <i>Information Sciences</i> , <b>2012</b> , 188, 215-235	7.7	48
282	A rough set approach for estimating correlation measures in quality function deployment. <i>Information Sciences</i> , <b>2012</b> , 189, 126-142	7.7	25
281	A comparative study of rough sets for hybrid data. <i>Information Sciences</i> , <b>2012</b> , 190, 1-16	7.7	53
280	Rough set-based approach for modeling relationship measures in product planning. <i>Information Sciences</i> , <b>2012</b> , 193, 199-217	7.7	10
279	Generalized approximations defined by non-equivalence relations. <i>Information Sciences</i> , <b>2012</b> , 193, 163-179		30
278	Covering based rough set approximations. <i>Information Sciences</i> , <b>2012</b> , 200, 91-107	7.7	325
277	An application of rough sets to graph theory. <i>Information Sciences</i> , <b>2012</b> , 201, 114-127	7.7	39
276	Semantic Web search based on rough sets and Fuzzy Formal Concept Analysis. <b>2012</b> , 26, 40-47		62

275	A Method of Representing Rough Sets System Determined by Quasi Orders. <b>2013</b> , 30, 313-337		7
274	On the structure of definable sets in covering approximation spaces. <b>2013</b> , 4, 195-206		4
273	Fuzzy rough sets, fuzzy preorders and fuzzy topologies. <b>2013</b> , 210, 63-68		66
272	Attribute selection based on a new conditional entropy for incomplete decision systems. <b>2013</b> , 39, 207-213		72
271	An approach to decision making based on intuitionistic fuzzy rough sets over two universes. <b>2013</b> , 64, 1079-1089		49
270	On rough approximations via ideal. <i>Information Sciences</i> , <b>2013</b> , 251, 114-125	7.7	10
269	Topological and lattice structures of L-fuzzy rough sets determined by lower and upper sets. <i>Information Sciences</i> , <b>2013</b> , 218, 194-204	7.7	84
268	Categories of rough sets and textures. <b>2013</b> , 488, 46-65		18
267	Using one axiom to characterize rough set and fuzzy rough set approximations. <i>Information Sciences</i> , <b>2013</b> , 223, 285-296	7.7	50
266	Fuzzy rough sets based on generalized residuated lattices. <i>Information Sciences</i> , <b>2013</b> , 248, 31-49	7.7	38
265	Fuzzy similarity-based nearest-neighbour classification as alternatives to their fuzzy-rough parallels. <i>International Journal of Approximate Reasoning</i> , <b>2013</b> , 54, 184-195	3.6	20
264	Computing connected components of simple undirected graphs based on generalized rough sets. <b>2013</b> , 37, 80-85		8
263	New Rough Set Approximation Spaces. <b>2013</b> , 2013, 1-7		3
262	Minimal Description and Maximal Description in Covering-based Rough Sets. <b>2013</b> , 128, 503-526		5
261	Duality in Rough Set Theory Based on the Square of Opposition. <b>2013</b> , 127, 49-64		19
260	A rough sets approach to malfunction diagnosis on air-conditioning system. <b>2013</b> , 34, 135-148		
259	Computation of Maximal Characteristic Neighborhoods for Incomplete Information Systems. <b>2013</b> ,		
258	ON COVERINGS OF PRODUCTS OF ROUGH TRANSFORMATION SEMIGROUPS. <b>2013</b> , 24, 375-391		5

257	Endomorphic structures of approximation operators. <b>2013</b> , 3, 130		
256	S-Approximation: A New Approach to Algebraic Approximation. <b>2014</b> , 2014, 1-5		8
255	On Fuzzy Rough Sets and Their Topological Structures. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-17	1.1	5
254	Incremental Learning Researches on Rough Set Theory. <b>2014</b> , 1, 99-112		11
253	. <b>2014</b> , 37, 157-167		7
252	Fuzzy Approximating Spaces. <b>2014</b> , 2014, 1-7		1
251	Rough set theory for the incomplete interval valued fuzzy information systems. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2014</b> , 26, 889-900	1.6	1
250	Intuitionistic Fuzzy Soft Rough Set and Its Application in Decision Making. <b>2014</b> , 2014, 1-13		20
249	Knowledge Acquisition of Interval Set-Valued Based on Granular Computing. <b>2014</b> , 543-547, 2017-2023		
248	Comparison between rough set approximations based on different topologies. <b>2014</b> , 3, 292		26
247	Interrelationship mining from a viewpoint of rough sets on two universes. <b>2014</b> ,		3
246	Connectivity of covering approximation spaces and its applications on epidemiological issue. <b>2014</b> , 25, 445-451		9
245	On the Connectivity of Wireless Network Systems and an Application in Teacher-Student Interactive Platforms. <b>2014</b> , 2014, 1-6		2
244	Mining incomplete data with singleton, subset and concept probabilistic approximations. <i>Information Sciences</i> , <b>2014</b> , 280, 368-384	7.7	25
243	The relationship among three types of rough approximation pairs. <b>2014</b> , 60, 28-34		11
242	Rough clustering utilizing the principle of indifference. <i>Information Sciences</i> , <b>2014</b> , 277, 358-374	7.7	36
241	On the topological properties of generalized rough sets. <i>Information Sciences</i> , <b>2014</b> , 263, 141-152	7.7	15
240	Quantitative rough sets based on subsethood measures. <i>Information Sciences</i> , <b>2014</b> , 267, 306-322	7.7	64

239	Roughness and fuzziness in quantales. <i>Information Sciences</i> , <b>2014</b> , 271, 14-30	7.7	12
238	Topological approach to multigranulation rough sets. <b>2014</b> , 5, 233-243		13
237	The relationship among soft sets, soft rough sets and topologies. <i>Soft Computing</i> , <b>2014</b> , 18, 717-728	3.5	51
236	Quantitative information architecture, granular computing and rough set models in the double-quantitative approximation space of precision and grade. <i>Information Sciences</i> , <b>2014</b> , 268, 147-168	7.7	43
235	Rough approximation of a fuzzy concept on a hybrid attribute information system and its uncertainty measure. <i>Information Sciences</i> , <b>2014</b> , 284, 60-80	7.7	25
234	Rough Sets, Kernel Set, and Spatiotemporal Outlier Detection. <b>2014</b> , 26, 194-207		42
233	An entropy-based uncertainty measurement approach in neighborhood systems. <i>Information Sciences</i> , <b>2014</b> , 279, 239-250	7.7	56
232	Duality, conjugacy and adjointness of approximation operators in covering-based rough sets. <i>International Journal of Approximate Reasoning</i> , <b>2014</b> , 55, 469-485	3.6	54
231	A rough set-based incremental approach for learning knowledge in dynamic incomplete information systems. <i>International Journal of Approximate Reasoning</i> , <b>2014</b> , 55, 1764-1786	3.6	60
230	Three-way decisions space and three-way decisions. <i>Information Sciences</i> , <b>2014</b> , 281, 21-52	7.7	168
229	An axiomatic characterization of probabilistic rough sets. <i>International Journal of Approximate Reasoning</i> , <b>2014</b> , 55, 130-141	3.6	25
228	An Incremental Learning Approach for Updating Approximations in Rough Set Model over Dual Universes. <b>2015</b> , 30, 923-947		8
227	Using One Axiom to Characterize Fuzzy Rough Approximation Operators Determined by a Fuzzy Implication Operator. <b>2015</b> , 142, 87-104		14
226	Intelligence in the Era of Big Data. <b>2015</b> ,		2
225	Injective module based on rough set theory. <b>2015</b> , 2, 1069481		
224	Comparisons between near open sets and rough approximations. <b>2015</b> , 4, 64		4
223	Axiomatic Characterizations of Reflexive and (mathcal {T})-Transitive (mathcal {I})-Intuitionistic Fuzzy Rough Approximation Operators. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 218-229	0.9	1
222	Constructing importance measure of attributes in covering decision table. <b>2015</b> , 76, 228-239		3

221	Similarity of fuzzy relations based on fuzzy topologies induced by fuzzy rough approximation operators. <i>Information Sciences</i> , <b>2015</b> , 305, 219-233	7.7	30
220	A category approach to relation preserving functions in rough set theory. <i>International Journal of Approximate Reasoning</i> , <b>2015</b> , 56, 71-86	3.6	11
219	Generalized Rough Sets. <b>2015</b> , 413-424		7
218	A new rough set theory: rough soft hemirings. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2015</b> , 28, 1687-1697	12.7	95
217	Granular variable precision fuzzy rough sets with general fuzzy relations. <b>2015</b> , 275, 39-57		44
216	Some minimal axiom sets of rough sets. <i>Information Sciences</i> , <b>2015</b> , 312, 40-54	7.7	17
215	Generalized Interval-Valued Fuzzy Rough Set and its Application in Decision Making. <b>2015</b> , 17, 279-291		28
214	Some twin approximation operators on covering approximation spaces. <i>International Journal of Approximate Reasoning</i> , <b>2015</b> , 56, 59-70	3.6	31
213	Is there any need for rough clustering?. <b>2015</b> , 53, 31-37		28
212	T-similarity of fuzzy relations and related algebraic structures. <b>2015</b> , 275, 130-143		23
211	On the union and intersection operations of rough sets based on various approximation spaces. <i>Information Sciences</i> , <b>2015</b> , 292, 214-229	7.7	88
210	I-Rough Topological Spaces. <b>2016</b> , 3, 98-113		2
209	A rough set method for the vertex cover problem in graph theory. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2016</b> , 30, 2003-2013	1.6	3
208	Rough and rough fuzzy sets on two universes via covering approach. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2016</b> , 30, 1139-1146	1.6	1
207	On twelve types of covering-based rough sets. <b>2016</b> , 5, 1003		5
206	Lattice Theory for Rough Sets [A Case Study with Mizar]. <b>2016</b> , 147, 223-240		11
205	On $\mathbb{F}$ -fuzzy rough sets: Representation, special cases and induced topology. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2016</b> , 31, 1397-1406	1.6	
204	Intuitionistic L-fuzzy Rough Sets, Intuitionistic L-fuzzy Preorders and Intuitionistic L-fuzzy Topologies Peer review under responsibility of Fuzzy Information and Engineering Branch of the Operations Research Society of China.. <b>2016</b> , 8, 255-279		6



203	Rough approximations via ideal on a complete completely distributive lattice. <i>Soft Computing</i> , <b>2016</b> , 20, 1853-1861	3.5	2
202	Similarity of binary relations based on L-fuzzy topologies. <i>Soft Computing</i> , <b>2016</b> , 20, 3497-3504	3.5	
201	WITHDRAWN: Theoretical approaches to rough sets on a bitopological view. <b>2016</b> ,		1
200	Boundary region-based rough sets and uncertainty measures in the approximation space. <i>Information Sciences</i> , <b>2016</b> , 370-371, 239-255	7.7	7
199	On j-near closure operators induced from relations and its applications. <b>2016</b> , 3, 1247505		1
198	Neighborhood system S-approximation spaces and applications. <b>2016</b> , 49, 749-794		7
197	Axiomatic characterizations of (S, T)-fuzzy rough approximation operators. <i>Information Sciences</i> , <b>2016</b> , 334-335, 17-43	7.7	3
196	Probabilistic graded rough set and double relative quantitative decision-theoretic rough set. <i>International Journal of Approximate Reasoning</i> , <b>2016</b> , 74, 1-12	3.6	17
195	Quantification of R-fuzzy sets. <b>2016</b> , 55, 374-387		9
194	Neighborhood operators for covering-based rough sets. <i>Information Sciences</i> , <b>2016</b> , 336, 21-44	7.7	70
193	On the matroidal structure of generalized rough set based on relation via definable sets. <b>2016</b> , 7, 135-144		5
192	Similarity of binary relations based on rough set theory and topology: an application for topological structures of matroids. <i>Soft Computing</i> , <b>2016</b> , 20, 853-861	3.5	5
191	Three-way decision spaces based on partially ordered sets and three-way decisions based on hesitant fuzzy sets. <b>2016</b> , 91, 16-31		66
190	Ranking interval sets based on inclusion measures and applications to three-way decisions. <b>2016</b> , 91, 62-70		33
189	On interval-valued hesitant fuzzy rough approximation operators. <i>Soft Computing</i> , <b>2016</b> , 20, 189-209	3.5	24
188	Characterizations of rough finite state automata. <b>2017</b> , 8, 721-730		5
187	Catoptrical rough set model on two universes using granule-based definition and its variable precision extensions. <i>Information Sciences</i> , <b>2017</b> , 390, 70-81	7.7	12
186	Fuzzy neighborhood operators based on fuzzy coverings. <b>2017</b> , 312, 17-35		80

185	On j-near concepts in rough sets with some applications. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2017</b> , 32, 1089-1099	1.6	20
184	The axiomatic characterizations on L-fuzzy covering-based approximation operators. <b>2017</b> , 46, 332-353		33
183	Similarity of L-fuzzy Relations Based on L-topologies Induced by L-fuzzy Rough Approximation OperatorsPeer review under responsibility of Fuzzy Information and Engineering Branch of the Operations Research Society of China.. <b>2017</b> , 9, 21-44		
182	Notes on covering-based rough sets from topological point of view: Relationships with general framework of dual approximation operators. <i>International Journal of Approximate Reasoning</i> , <b>2017</b> , 88, 295-305	3.6	9
181	On Simplified Axiomatic Characterizations of (M)-Fuzzy Rough Approximation Operators. <b>2017</b> , 25, 457-476		1
180	T-similarity of fuzzy relations on a complete residuated lattice and its algebraic structures. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2017</b> , 32, 2641-2653	1.6	1
179	Further study of multi-granulation fuzzy rough sets. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2017</b> , 32, 2413-2424	1.6	5
178	Topological approach to retrieve missing values in incomplete information systems. <b>2017</b> , 25, 419-423		5
177	Structured probabilistic rough set approximations. <i>International Journal of Approximate Reasoning</i> , <b>2017</b> , 90, 319-332	3.6	11
176	Generalized multigranulation rough sets and optimal granularity selection. <b>2017</b> , 2, 271-288		48
175	A short note on L-fuzzy approximation spaces and L-fuzzy pretopological spaces. <b>2017</b> , 312, 126-134		17
174	Rough soft set theory applied to lattices and its applications. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2017</b> , 32, 3867-3878	1.6	
173	Rough approximations based on bisimulations. <i>International Journal of Approximate Reasoning</i> , <b>2017</b> , 81, 49-62	3.6	5
172	Measures of dependency in metric decision systems and databases. <b>2017</b> ,		
171	. <b>2017</b> ,		1
170	Textures and Rough Sets. <b>2017</b> , 17-43		
169	Connections between two-universe rough sets and formal concepts. <b>2018</b> , 9, 1869-1877		12
168	Generalized soft rough sets and generated soft ideal rough topological spaces. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2018</b> , 34, 517-524	1.6	4

167	Finding strongly connected components of simple digraphs based on generalized rough sets theory. <b>2018</b> , 149, 88-98		6
166	Dependence space of topology and its application to attribute reduction. <b>2018</b> , 9, 691-698		5
165	A comprehensive study of fuzzy covering-based rough set models: Definitions, properties and interrelationships. <b>2018</b> , 336, 1-26		55
164	Axiomatic approaches to rough approximation operators via ideal on a complete completely distributive lattice. <i>Soft Computing</i> , <b>2018</b> , 22, 2329-2339	3-5	5
163	On ( $\cap, \&$ )-fuzzy rough sets based on residuated and co-residuated lattices. <b>2018</b> , 336, 54-86		20
162	Equivalent Structures of Interval Sets and Fuzzy Interval Sets. <b>2018</b> , 33, 68-92		3
161	Granular information retrieval using neighborhood systems. <b>2018</b> , 41, 5737-5753		5
160	A Note on a Binary Relation Corresponding to a Bipartite Graph. <b>2018</b> , 22, 01039		
159	Semantic Search Exploiting Formal Concept Analysis, Rough Sets, and Wikipedia. <b>2018</b> , 14, 99-119		4
158	Algebraic Methods for Granular Rough Sets. <b>2018</b> , 157-335		7
157	Approximation of ideals in semigroups by soft relations. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2018</b> , 35, 3895-3908	1.6	6
156	A New Strategy for Virtual Machine Migration Based on Decision-Theoretic Rough Sets. <b>2018</b> , E101.B, 2172-2185		1
155	Notions from rough set theory in a generalized dependency relation context. <i>International Journal of Approximate Reasoning</i> , <b>2018</b> , 98, 25-61	3.6	13
154	Operation Properties and Algebraic Application of Covering Rough Sets. <b>2018</b> , 160, 385-408		3
153	Approximations of arbitrary relations by partial orders. <i>International Journal of Approximate Reasoning</i> , <b>2018</b> , 98, 177-195	3.6	4
152	A rough set approach for approximating differential dependencies. <b>2018</b> , 114, 488-502		9
151	Three-way decisions with reflexive probabilistic rough fuzzy sets. <b>2019</b> , 4, 363-375		7
150	The quantification of subjectivity: The R-fuzzy grey analysis framework. <b>2019</b> , 136, 201-216		2

149	A novel test-cost-sensitive attribute reduction approach using the binary bat algorithm. <b>2019</b> , 186, 104938		11
148	L-fuzzy approximating spaces. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2019</b> , 37, 5031-5038	1.6	
147	Axiomatic characterizations of adjoint generalized (dual) concept systems. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2019</b> , 37, 3629-3638	1.6	1
146	Building a Framework of Rough Inclusion Functions by Means of Computerized Proof Assistant. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 225-238	0.9	2
145	L-fuzzy rough approximation operators via three new types of L-fuzzy relations. <i>Soft Computing</i> , <b>2019</b> , 23, 11433-11446	3.5	8
144	Rough approximation of a fuzzy set in semigroups based on soft relations. <b>2019</b> , 38, 1		13
143	Uncertainty and grey data analytics. <b>2019</b> , 2, 73-86		7
142	Approximation of soft ideals by soft relations in semigroups. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2019</b> , 37, 7977-7989	1.6	6
141	Covering-based generalized IF rough sets with applications to multi-attribute decision-making. <i>Information Sciences</i> , <b>2019</b> , 478, 275-302	7.7	111
140	The comparative study of covering rough sets and multi-granulation rough sets. <i>Soft Computing</i> , <b>2019</b> , 23, 3237-3251	3.5	11
139	Roughness and Fuzziness. <b>2020</b> , 23-34		1
138	Novel fuzzy rough set models and corresponding applications to multi-criteria decision-making. <b>2020</b> , 383, 92-126		61
137	Finding strongly connected components of simple digraphs based on granulation strategy. <i>International Journal of Approximate Reasoning</i> , <b>2020</b> , 118, 64-78	3.6	1
136	Using single axioms to characterize L-rough approximate operators with respect to various types of L-relations. <b>2020</b> , 11, 1061-1082		10
135	Three types of fuzzy covering-based rough set models. <b>2020</b> , 423, 122-122		1
134	Twin approximation space and its application in analysing employee engagement and employee value proposition. <b>2020</b> , 12, 299		
133	Relationships between relation-based rough sets and belief structures. <i>International Journal of Approximate Reasoning</i> , <b>2020</b> , 127, 83-98	3.6	6
132	Generalized textural rough sets: Rough set models over two universes. <i>Information Sciences</i> , <b>2020</b> , 521, 398-421	7.7	4

131	Bi-ideal approximation spaces and their applications. <i>Soft Computing</i> , <b>2020</b> , 24, 12989-13001	3.5	11
130	Multi-source information fusion based on rough set theory: A review. <b>2021</b> , 68, 85-117		41
129	A fixed point theorem in rough semi-linear uniform spaces. <b>2021</b> , 851, 111-120		3
128	Topological approaches to rough approximations based on closure operators. 1		10
127	Invariance of separation in covering approximation spaces. <i>AIMS Mathematics</i> , <b>2021</b> , 6, 5772-5785	2.2	1
126	New Rough Approximations Based on E-Neighborhoods. <b>2021</b> , 2021, 1-6		13
125	Several rough set models in quotient space.		
124	Gray System Prediction in the AlpineHimalayan Earthquake Zone. <b>2021</b> , 772, 012009		
123	Research on the HRM performance assessment model based on FPGA embedded system and bayesian network. <b>2021</b> , 83, 103994		
122	Different kinds of generalized rough sets based on neighborhoods with a medical application. <b>2021</b> , 2150086		15
121	An improvement of rough sets accuracy measure using containment neighborhoods with a medical application. <i>Information Sciences</i> , <b>2021</b> , 569, 110-124	7.7	35
120	Two Different Views for Generalized Rough Sets with Applications. <b>2021</b> , 9, 2275		7
119	Axiomatic characterizations of L-valued rough sets using a single axiom. <i>Information Sciences</i> , <b>2021</b> , 580, 283-310	7.7	3
118	Topological approach for decision-making of COVID-19 infection via a nano-topology model. <i>AIMS Mathematics</i> , <b>2021</b> , 6, 7872-7894	2.2	12
117	Rough Sets over the Boolean Algebras. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 124-131	0.9	7
116	Algebraic Approach to Generalized Rough Sets. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 132-140	0.9	9
115	Characteristic Relations for Incomplete Data: A Generalization of the Indiscernibility Relation. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 58-68	0.9	39
114	A Rough Set Approach to Data with Missing Attribute Values. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 58-67	0.9	13

113	Axiomatic Systems of Generalized Rough Sets. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 216-221	0.9	6
112	Rough Set Approximations in Formal Concept Analysis. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 285-305	0.9	41
111	Local and Global Approximations for Incomplete Data. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 244-253	0.9	34
110	Interpreting Fuzzy Membership Functions in the Theory of Rough Sets. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 82-89	0.9	8
109	Sets, Relations, and Functions. <i>Advanced Information and Knowledge Processing</i> , <b>2014</b> , 1-66	0.3	1
108	Covering Based Rough Sets and Relation Based Rough Sets. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 143-152	0.9	2
107	Formalizing Lattice-Theoretical Aspects of Rough and Fuzzy Sets. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 347-356	0.9	3
106	Dynamic Trackback Strategy for Email-Born Phishing Using Maximum Dependency Algorithm (MDA). <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 263-273	0.4	2
105	Recent Development of Rough Computing: A Scientometrics View. <b>2017</b> , 21-45		6
104	Computer Certification of Generalized Rough Sets Based on Relations. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 83-94	0.9	2
103	Bipolar Queries with Dialogue: Rough Set Semantics. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 229-242	0.9	1
102	Rough Set Approach to Incomplete Data. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 50-55	0.9	7
101	Generalizations of Rough Sets: From Crisp to Fuzzy Cases. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 26-37	0.9	16
100	Semantics of Fuzzy Sets in Rough Set Theory. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 297-318	0.9	16
99	Generalizations of Rough Sets and Rule Extraction. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 96-119	0.9	14
98	Characterizing Pawlak's Approximation Operators. <b>2007</b> , 140-150		1
97	Algebraic Properties of Adjunction-Based Fuzzy Rough Sets. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 47-54	0.9	1
96	Rough Set Theory from a Math-Assistant Perspective. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 152-161	0.9	9

95	Hybridization of Fuzzy and Rough Sets: Present and Future. <b>2008</b> , 45-64		2
94	Relations in Mathematical Morphology with Applications to Graphs and Rough Sets. <b>2007</b> , 438-454		15
93	Three Approaches to Missing Attribute Values: A Rough Set Perspective. <b>2008</b> , 139-152		14
92	Granular Computing in Multi-agent Systems. <b>2008</b> , 3-17		4
91	A Unifying Abstract Approach for Rough Models. <b>2008</b> , 371-378		8
90	Interval Set Cluster Analysis: A Re-formulation. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 398-405	0.9	19
89	Rough Set Approximations in Formal Concept Analysis. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 226-235	0.9	1
88	Some Mathematical Structures of Generalized Rough Sets in Infinite Universes of Discourse. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 175-206	0.9	7
87	Approximations of Arbitrary Binary Relations by Partial Orders: Classical and Rough Set Models. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 17-38	0.9	10
86	New Fuzzy Rough Sets Based on Certainty Qualification. <b>2004</b> , 277-296		9
85	Information Granulation and Approximation in a Decision-Theoretical Model of Rough Sets. <b>2004</b> , 491-516		12
84	A Rough Set Approach to Spatio-temporal Outlier Detection. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 67-74	0.9	3
83	A Variable Precision Covering Generalized Rough Set Model. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 120-125	0.9	1
82	Topologies Induced by Equivalence Relations. <b>2011</b> , 204-209		1
81	Fuzzy Rough Set Based on Dominance Relations. <b>2012</b> , 119-125		1
80	Property-Driven Rough Sets Approximations of Relations. <b>2013</b> , 333-357		5
79	A General Set Theoretic Approximation Framework. <b>2012</b> , 604-612		9
78	Maximal Characteristic Sets and Neighborhoods Approach to Incomplete Information Systems. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 73-82	0.9	1

77	A Scientometrics Study of Rough Sets in Three Decades. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 28-40	0.9	6
76	Generalizations of Approximations. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 41-52	0.9	2
75	On the Relation of Probability, Fuzziness, Rough and Evidence Theory. <b>2015</b> , 1-15		2
74	Structure of Upper and Lower Approximation Spaces of Infinite Sets. <i>Studies in Fuzziness and Soft Computing</i> , <b>2002</b> , 461-473	0.7	3
73	Fuzzy Hypergraphs. <i>Studies in Fuzziness and Soft Computing</i> , <b>2000</b> , 135-231	0.7	2
72	Dynamic maintenance of rough approximations in multi-source hybrid information systems. <i>Information Sciences</i> , <b>2020</b> , 530, 108-127	7.7	6
71	Binary Relations-based Rough Sets in an Automated Approach. <i>Formalized Mathematics</i> , <b>2016</b> , 24, 143-155	0.2	6
70	L-fuzzy approximating spaces. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2019</b> , 1-8	1.6	3
69	A Survey on Rough Set Theory and Applications. <i>Jisuanji Xuebao/Chinese Journal of Computers</i> , <b>2009</b> , 32, 1229-1246		52
68	New Approaches of Rough Sets via Ideals. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2016</b> , 247-264	0.4	3
67	Intuitionistic Fuzzy Topology and Intuitionistic Fuzzy Preorder. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , <b>2015</b> , 15, 79-86	1.8	4
66	Improvement of the approximations and accuracy measure of a rough set using somewhere dense sets. <i>Soft Computing</i> , <b>2021</b> , 25, 14449-14460	3.5	15
65	Corrigendum to "Comparison of six types of rough approximations based on j-neighborhood space and j-adhesion neighborhood space". <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2021</b> , 1-9	1.6	3
64	Modal Logic, Rough Sets, and Fuzzy Sets. <i>Computer Science Workbench</i> , <b>2000</b> , 35-55		
63	Generalization of Rough Membership Function Based on $\mathcal{H}$ Coverings of the Universe. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 129-136	0.9	3
62	Generalization of Rough Sets Using Weak Fuzzy Similarity Relations. <i>Studies in Fuzziness and Soft Computing</i> , <b>2003</b> , 37-46	0.7	3
61	A Fuzziness Measure of Rough Sets. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 64-70	0.9	2
60	CRST: A Generalization of Rough Set Theory. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 364-372	0.9	



59	On Rough Fuzzy Set Algebras. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 256-265	0.9	2
58	On Axiomatic Characterization of Approximation Operators Based on Atomic Boolean Algebras. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 129-134	0.9	1
57	An Equivalent Definition of Rough Sets. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 52-60	0.9	1
56	New Approach in Defining Rough Approximations. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 85-92	0.9	1
55	Rough Approximation Operators with Hedges. <i>Advances in Intelligent and Soft Computing</i> , <b>2009</b> , 279-288		
54	On Rough Sets with Structures and Properties. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 109-116	0.9	1
53	Knowledge Reduction in Formal Contexts Based on Covering Rough Sets. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 128-135	0.9	3
52	New Approach in Defining Rough Approximations. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 119-138	0.9	
51	Rough Sets and General Basic Set Assignments. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 44-51	0.9	
50	Completely Compact Elements and Atoms of Rough Sets. <i>Advances in Intelligent and Soft Computing</i> , <b>2011</b> , 675-682		
49	References. <b>2011</b> , 377-400		
48	Studies on the Covering Rough Set and Its Matrix Description. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 219-226	0.9	
47	An Introduction to Rough Sets. <i>Advanced Information and Knowledge Processing</i> , <b>2012</b> , 3-20	0.3	1
46	Generalizations of Rough Functions in Topological Spaces by Using Pre-Open Sets. <i>Journal of Intelligent Learning Systems and Applications</i> , <b>2012</b> , 04, 127-134	0.7	1
45	On the Structure of Indiscernibility Relations Compatible with a Partially Ordered Set. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 47-55	0.9	
44	Topological Properties of the Pessimistic Multigranulation Rough Set Model. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 474-481	0.9	
43	MODAL, NECESSITY, SUFFICIENCY AND CO-SUFFICIENCY OPERATORS. <i>Korean Journal of Mathematics</i> , <b>2012</b> , 20, 293-305		
42	The Beginnings of a Weighted Model and New Frontiers. <i>Studies in Fuzziness and Soft Computing</i> , <b>2014</b> , 149-171	0.7	

41	Analysis of User-Weighted Rough k-Means. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 547-556	0.9	
40	Three-Way Decisions Cost Model Based on Continuous Domain. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 340-358	0.9	
39	Formalizing Two Generalized Approximation Operators. <i>Formalized Mathematics</i> , <b>2018</b> , 26, 183-191	0.2	2
38	Pawlak Yaklaşım Uzaylarının Topolojik Yapılarına Genelleştirilmiş Kaba Kümeler. <i>Mehmet Akif Ersoy Üniversitesi Fen Bilimleri Enstitüsü Dergisi</i> ,	0.1	
37	On the Characterizations of L-fuzzy Rough Sets Based on Fuzzy Lattices. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 254-266	0.4	
36	Representative Set of Objects in Rough Sets Based on Galois Connections. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 349-361	0.9	
35	Semantic Search Exploiting Formal Concept Analysis, Rough Sets, and Wikipedia. <b>2020</b> , 1436-1458		
34	Sequences of Refinements of Rough Sets: Logical and Algebraic Aspects. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 26-122	0.9	
33	Rough Sets of System. <b>2007</b> , 808-815		
32	On Transitive Uncertainty Mappings. <b>2007</b> , 42-49		2
31	A Rough-Apriori Technique in Mining Linguistic Association Rules. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 548-555	0.9	2
30	Ideal approximation spaces and their applications. <i>AIMS Mathematics</i> , <b>2022</b> , 7, 2479-2497	2.2	5
29	Serial relation and textural rough set. <i>Mathematica Moravica</i> , <b>2021</b> , 25, 69-79	0.7	0
28	Multigranulation Set-valued Rough Set Model. <b>2021</b> ,		
27	Some Topological Approaches for Generalized Rough Sets and Their Decision-Making Applications. <i>Symmetry</i> , <b>2022</b> , 14, 95	2.7	7
26	On (O,G)-fuzzy rough sets based on overlap and grouping functions over complete lattices. <i>International Journal of Approximate Reasoning</i> , <b>2022</b> , 144, 18-50	3.6	2
25	Enhanced Feature Selection Based on Integration Containment Neighborhoods Rough Set Approximations and Binary Honey Badger Optimization.. <i>Computational Intelligence and Neuroscience</i> , <b>2022</b> , 2022, 3991870	3	0
24	Three methods to generalize Pawlak approximations via simply open concepts with economic applications. <i>Soft Computing</i> , 1	3.5	3

23	Topological approach to generate new rough set models. <i>Complex &amp; Intelligent Systems</i> , 1	7.1	6
22	Generalization of rough sets using maximal right neighborhood systems and ideals with medical applications. <i>AIMS Mathematics</i> , <b>2022</b> , 7, 13104-13138	2.2	1
21	Maximal rough neighborhoods with a medical application.. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2022</b> , 1-12	3.7	4
20	Energy Saving via a Minimal Structure. <i>Mathematical Problems in Engineering</i> , <b>2022</b> , 2022, 1-6	1.1	
19	Approximation operators via TD-matroids on two sets.		
18	Convex rough sets on finite domains. <b>2022</b> , 611, 81-94		1
17	A new approach to generalized neighborhood system-based rough sets via convex structures and convex matroids. <b>2022</b> , 612, 1187-1205		0
16	Rough set models in a more general manner with applications. <b>2022</b> , 7, 18971-19017		3
15	Improvement of Approximation Spaces Using Maximal Left Neighborhoods and Ideals. <b>2022</b> , 10, 79379-79393		4
14	Rough Approximation Spaces via Maximal Union Neighborhoods and Ideals with a Medical Application. <b>2022</b> , 2022, 1-17		2
13	Rough set approximations based on a matroidal structure over three sets.		0
12	Upper rough approximation operators of quantale-valued similarities related to fuzzy orderings. <b>2022</b> , 1-10		0
11	Binary Boundaries and Power Set Space of Graded Rough Sets and Their Correlative ECG (Electrocardiogram) Data Analysis. <b>2022</b> , 85-99		0
10	Approximation operators and accuracy measures of rough sets from an infra-topology view.		4
9	Rough sets models inspired by supra-topology structures.		5
8	A novel granular variable precision fuzzy rough set model and its application in fuzzy decision system.		0
7	Two new fuzzy covering-based rough approximation operators via inclusion degree. <b>2023</b> , 1-17		0
6	Grey Systems and Uncertainty Modelling. <b>2023</b> , 59-80		0

- 5 Approximations by Ideal Minimal Structure with Chemical Application. **2023**, 36, 3073-3085 ○
- 4 Novel approaches of generalized rough approximation spaces inspired by maximal neighbourhoods and ideals. **2023**, 69, 497-520 1
- 3 Rough set analysis of graphs. **2022**, 36, 3331-3354 ○
- 2  $(O, \mathbb{I})$ -granular variable precision fuzzy rough sets based on overlap and grouping functions. **2023**, 42, ○
- 1 Five Generalized Rough Approximation Spaces Produced by Maximal Rough Neighborhoods. **2023**, 15, 751 ○