

Alexander Gelbukh

List of Publications by Year in descending order

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Version: 2024-02-01

286
papers

6,490
citations

185998

28
h-index

95083

68
g-index

358
all docs

358
docs citations

358
times ranked

3928
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Aspect extraction for opinion mining with a deep convolutional neural network. Knowledge-Based Systems, 2016, 108, 42-49. | 4.0 | 646 |
| 2 | Deep Learning-Based Document Modeling for Personality Detection from Text. IEEE Intelligent Systems, 2017, 32, 74-79. | 4.0 | 393 |
| 3 | Deep Convolutional Neural Network Textual Features and Multiple Kernel Learning for Utterance-level Multimodal Sentiment Analysis. , 2015, , . | | 339 |
| 4 | DialogueRNN: An Attentive RNN for Emotion Detection in Conversations. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 6818-6825. | 3.6 | 338 |
| 5 | Sentiment Analysis Is a Big Suitcase. IEEE Intelligent Systems, 2017, 32, 74-80. | 4.0 | 302 |
| 6 | Multimodal Sentiment Analysis using hierarchical fusion with context modeling. Knowledge-Based Systems, 2018, 161, 124-133. | 4.0 | 237 |
| 7 | Syntactic N-grams as machine learning features for natural language processing. Expert Systems With Applications, 2014, 41, 853-860. | 4.4 | 224 |
| 8 | Enhanced SenticNet with Affective Labels for Concept-Based Opinion Mining. IEEE Intelligent Systems, 2013, 28, 31-38. | 4.0 | 204 |
| 9 | Soft Similarity and Soft Cosine Measure: Similarity of Features in Vector Space Model. Computacion Y Sistemas, 2014, 18, . | 0.2 | 197 |
| 10 | A Rule-Based Approach to Aspect Extraction from Product Reviews. , 2014, , . | | 180 |
| 11 | Multilingual Sentiment Analysis: State of the Art and Independent Comparison of Techniques. Cognitive Computation, 2016, 8, 757-771. | 3.6 | 177 |
| 12 | Sentiment and Sarcasm Classification With Multitask Learning. IEEE Intelligent Systems, 2019, 34, 38-43. | 4.0 | 164 |
| 13 | Recent trends in deep learning based personality detection. Artificial Intelligence Review, 2020, 53, 2313-2339. | 9.7 | 160 |
| 14 | Multimodal Sentiment Analysis: Addressing Key Issues and Setting Up the Baselines. IEEE Intelligent Systems, 2018, 33, 17-25. | 4.0 | 134 |
| 15 | EmoSenticSpace: A novel framework for affective common-sense reasoning. Knowledge-Based Systems, 2014, 69, 108-123. | 4.0 | 132 |
| 16 | Sentiment Data Flow Analysis by Means of Dynamic Linguistic Patterns. IEEE Computational Intelligence Magazine, 2015, 10, 26-36. | 3.4 | 118 |
| 17 | Concept-Level Sentiment Analysis with Dependency-Based Semantic Parsing: A Novel Approach. Cognitive Computation, 2015, 7, 487-499. | 3.6 | 109 |
| 18 | Merging SenticNet and WordNet-Affect emotion lists for sentiment analysis. , 2012, , . | | 65 |

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| 19 | Enriching SenticNet Polarity Scores through Semi-Supervised Fuzzy Clustering. , 2012, , . | | 56 |
| 20 | Synonymous Paraphrasing Using WordNet and Internet. Lecture Notes in Computer Science, 2004, , 312-323. | 1.0 | 52 |
| 21 | Empirical Study of Machine Learning Based Approach for Opinion Mining in Tweets. Lecture Notes in Computer Science, 2013, , 1-14. | 1.0 | 50 |
| 22 | Modelling Public Sentiment in Twitter: Using Linguistic Patterns to Enhance Supervised Learning. Lecture Notes in Computer Science, 2015, , 49-65. | 1.0 | 50 |
| 23 | Urdu Sentiment Analysis With Deep Learning Methods. IEEE Access, 2021, 9, 97803-97812. | 2.6 | 47 |
| 24 | Syntactic Dependency-Based N-grams as Classification Features. Lecture Notes in Computer Science, 2013, , 1-11. | 1.0 | 45 |
| 25 | Semantic Textual Similarity Methods, Tools, and Applications: A Survey. Computacion Y Sistemas, 2016, 20, . | 0.2 | 42 |
| 26 | PPChecker: Plagiarism Pattern Checker in Document Copy Detection. Lecture Notes in Computer Science, 2006, , 661-667. | 1.0 | 40 |
| 27 | Flexible Comparison of Conceptual Graphs*. Lecture Notes in Computer Science, 2001, , 102-111. | 1.0 | 40 |
| 28 | Zipf and Heaps Lawsâ€™ Coefficients Depend on Language. Lecture Notes in Computer Science, 2001, , 332-335. | 1.0 | 35 |
| 29 | Mathematical properties of soft cardinality: Enhancing Jaccard, Dice and cosine similarity measures with element-wise distance. Information Sciences, 2016, 367-368, 373-389. | 4.0 | 34 |
| 30 | Approach to Construction of Automatic Morphological Analysis Systems for Inflective Languages with Little Effort. Lecture Notes in Computer Science, 2003, , 215-220. | 1.0 | 33 |
| 31 | Computational Linguistics and Intelligent Text Processing. Lecture Notes in Computer Science, 2002, , . | 1.0 | 31 |
| 32 | A Multiclass Depression Detection in Social Media Based on Sentiment Analysis. Advances in Intelligent Systems and Computing, 2020, , 659-662. | 0.5 | 30 |
| 33 | Big Data Analytics: Perspective Shifting from Transactions to Ecosystems. IEEE Intelligent Systems, 2013, 28, 2-5. | 4.0 | 27 |
| 34 | Cross-domain deception detection using support vector networks. Soft Computing, 2017, 21, 585-595. | 2.1 | 27 |
| 35 | Terms Derived from Frequent Sequences for Extractive Text Summarization. , 2008, , 593-604. | | 27 |
| 36 | Automatic Authorship Detection Using Textual Patterns Extracted from Integrated Syntactic Graphs. Sensors, 2016, 16, 1374. | 2.1 | 25 |

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| 37 | Automatic Term Extraction Using Log-Likelihood Based Comparison with General Reference Corpus. Lecture Notes in Computer Science, 2010, , 248-255. | 1.0 | 25 |
| 38 | An Approach to Clustering Abstracts. Lecture Notes in Computer Science, 2005, , 275-285. | 1.0 | 23 |
| 39 | Music Genre Classification: A Semi-supervised Approach. Lecture Notes in Computer Science, 2013, , 254-263. | 1.0 | 23 |
| 40 | Dependency Tree-Based Rules for Concept-Level Aspect-Based Sentiment Analysis. Communications in Computer and Information Science, 2014, , 41-47. | 0.4 | 23 |
| 41 | PerSent: A Freely Available Persian Sentiment Lexicon. Lecture Notes in Computer Science, 2016, , 310-320. | 1.0 | 23 |
| 42 | “Bend the truth” Benchmark dataset for fake news detection in Urdu language and its evaluation. Journal of Intelligent and Fuzzy Systems, 2020, 39, 2457-2469. | 0.8 | 22 |
| 43 | Text Mining at Detail Level Using Conceptual Graphs. Lecture Notes in Computer Science, 2002, , 122-136. | 1.0 | 21 |
| 44 | Recognizing Emotion Cause in Conversations. Cognitive Computation, 2021, 13, 1317-1332. | 3.6 | 21 |
| 45 | Fuzzy Clustering for Semi-supervised Learning “ Case Study: Construction of an Emotion Lexicon. Lecture Notes in Computer Science, 2013, , 73-86. | 1.0 | 20 |
| 46 | Semantic Textual Entailment Recognition using UNL. Polibits, 0, 43, 23-27. | 0.0 | 20 |
| 47 | Natural language processing. , 2005, , . | | 19 |
| 48 | Pre-conceptual Schema: A Conceptual-Graph-Like Knowledge Representation for Requirements Elicitation. Lecture Notes in Computer Science, 2006, , 27-37. | 1.0 | 18 |
| 49 | Adam Kilgarriff’s Legacy to Computational Linguistics and Beyond. Lecture Notes in Computer Science, 2018, , 3-25. | 1.0 | 18 |
| 50 | Improving aspect-level sentiment analysis with aspect extraction. Neural Computing and Applications, 2022, 34, 8333-8343. | 3.2 | 18 |
| 51 | Computational Linguistics and Intelligent Text Processing. Lecture Notes in Computer Science, 2003, , . | 1.0 | 18 |
| 52 | Clustering Abstracts Instead of Full Texts. Lecture Notes in Computer Science, 2004, , 129-135. | 1.0 | 18 |
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| 54 | Author Profiling with Doc2vec Neural Network-Based Document Embeddings. Lecture Notes in Computer Science, 2017, , 117-131. | 1.0 | 17 |

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| 56 | Adaptive Algorithm for Plagiarism Detection: The Best-Performing Approach at PAN 2014 Text Alignment Competition. Lecture Notes in Computer Science, 2015, , 402-413. | 1.0 | 16 |
| 57 | Artificial bee colony algorithm in data flow testing for optimal test suite generation. International Journal of Systems Assurance Engineering and Management, 2020, 11, 340-349. | 1.5 | 16 |
| 58 | Threatening Language Detection and Target Identification in Urdu Tweets. IEEE Access, 2021, 9, 128302-128313. | 2.6 | 16 |
| 59 | Text Comparison Using Soft Cardinality. Lecture Notes in Computer Science, 2010, , 297-302. | 1.0 | 16 |
| 60 | Detecting Inflection Patterns in Natural Language by Minimization of Morphological Model. Lecture Notes in Computer Science, 2004, , 432-438. | 1.0 | 15 |
| 61 | Generalized Mongue-Elkan Method for Approximate Text String Comparison. Lecture Notes in Computer Science, 2009, , 559-570. | 1.0 | 15 |
| 62 | Resource Building and Parts-of-Speech (POS) Tagging for the Mizo Language. , 2015, , . | | 15 |
| 63 | word2set: WordNet-Based Word Representation Rivaling Neural Word Embedding for Lexical Similarity and Sentiment Analysis. IEEE Computational Intelligence Magazine, 2019, 14, 41-53. | 3.4 | 15 |
| 64 | A Very Large Database of Collocations and Semantic Links. Lecture Notes in Computer Science, 2001, , 103-114. | 1.0 | 15 |
| 65 | Advances in Signal Processing and Intelligent Recognition Systems. Advances in Intelligent Systems and Computing, 2014, , . | 0.5 | 14 |
| 66 | Text Segmentation into Paragraphs Based on Local Text Cohesion. Lecture Notes in Computer Science, 2001, , 158-166. | 1.0 | 14 |
| 67 | NLP for Shallow Question Answering of Legal Documents Using Graphs. Lecture Notes in Computer Science, 2009, , 498-508. | 1.0 | 14 |
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| 74 | Extending persian sentiment lexicon with idiomatic expressions for sentiment analysis. Social Network Analysis and Mining, 2022, 12, 1. | 1.9 | 12 |
| 75 | Textual Entailment and anaphora resolution. , 2010, , . | | 11 |
| 76 | Evolutionary Multiobjective Optimization Approach for Evolving Ensemble of Intelligent Paradigms for Stock Market Modeling. Lecture Notes in Computer Science, 2005, , 673-681. | 1.0 | 11 |
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| 78 | Multi-label emotion classification of Urdu tweets. PeerJ Computer Science, 2022, 8, e896. | 2.7 | 11 |
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| 80 | Comparing Commercial Tools and State-of-the-Art Methods for Generating Text Summaries. , 2009, , . | | 10 |
| 81 | Detecting Deviations in Text Collections: An Approach Using Conceptual Graphs. Lecture Notes in Computer Science, 2002, , 176-184. | 1.0 | 10 |
| 82 | Highly Language-Independent Word Lemmatization Using a Machine-Learning Classifier. Computacion Y Sistemas, 2020, 24, . | 0.2 | 10 |
| 83 | Individual vs. Group Violent Threats Classification in Online Discussions. , 2020, , . | | 10 |
| 84 | Evaluation of TnT Tagger for Spanish. , 0, , . | | 9 |
| 85 | Stable Coordinated Pairs in Text Processing. Lecture Notes in Computer Science, 2003, , 27-34. | 1.0 | 9 |
| 86 | Web-Based Variant of the Lesk Approach to Word Sense Disambiguation. , 2009, , . | | 9 |
| 87 | Summarizing Conceptual Graphs for Automatic Summarization Task. Lecture Notes in Computer Science, 2013, , 245-253. | 1.0 | 9 |
| 88 | Binary vector transformation of math formula for mathematical information retrieval. Journal of Intelligent and Fuzzy Systems, 2019, 36, 4685-4695. | 0.8 | 9 |
| 89 | Compilation of a Spanish Representative Corpus. Lecture Notes in Computer Science, 2002, , 285-288. | 1.0 | 9 |
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| 92 | A Formula Embedding Approach to Math Information Retrieval. Computacion Y Sistemas, 2018, 22, . | 0.2 | 9 |
| 93 | Open Information Extraction for Spanish Language based on Syntactic Constraints. , 2014, , . | | 9 |
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| 95 | Spanish Natural Language Interface for a Relational Database Querying System. Lecture Notes in Computer Science, 2002, , 123-130. | 1.0 | 8 |
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| 100 | CookingQA: Answering Questions and Recommending Recipes Based on Ingredients. Arabian Journal for Science and Engineering, 2021, 46, 3701-3712. | 1.7 | 8 |
| 101 | PerSent 2.0: Persian Sentiment Lexicon Enriched with Domain-Specific Words. Lecture Notes in Computer Science, 2020, , 497-509. | 1.0 | 8 |
| 102 | Soft Cardinality in Semantic Text Processing: Experience of the SemEval International Competitions. Polibits, 0, 51, 63-72. | 0.0 | 8 |
| 103 | JUNITMZ at SemEval-2016 Task 1: Identifying Semantic Similarity Using Levenshtein Ratio. , 2016, , . | | 8 |
| 104 | Supervised Learning for Semantic Classification of Spanish Collocations. Lecture Notes in Computer Science, 2010, , 362-371. | 1.0 | 8 |
| 105 | A method of describing document contents through topic selection. , 0, , . | | 7 |
| 106 | Identification of Rules for Recognition of Named Entity Classes in Mizo Language. , 2016, , . | | 7 |
| 107 | Automatic prediction of citability of scientific articles by stylometry of their titles and abstracts. Scientometrics, 2020, 125, 3187-3232. | 1.6 | 7 |
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| 110 | Hybrid Particle Swarm " Evolutionary Algorithm for Search and Optimization. <i>Lecture Notes in Computer Science</i> , 2005, , 623-632. | 1.0 | 7 |
| 111 | A Portable Natural Language Interface for Diverse Databases Using Ontologies. <i>Lecture Notes in Computer Science</i> , 2003, , 494-505. | 1.0 | 7 |
| 112 | Chi-Square Classifier for Document Categorization. <i>Lecture Notes in Computer Science</i> , 2001, , 457-459. | 1.0 | 7 |
| 113 | Heuristics-Based Replenishment of Collocation Databases. <i>Lecture Notes in Computer Science</i> , 2002, , 25-32. | 1.0 | 7 |
| 114 | UrduFake@FIRE2020: Shared Track on Fake News Identification in Urdu. , 2020, , . | | 7 |
| 115 | Recognizing Textual Entailment by Soft Dependency Tree Matching. <i>Computacion Y Sistemas</i> , 2015, 19, . | 0.2 | 7 |
| 116 | Generaci3n de res3menes por medio de s3ntesis de grafos conceptuales. <i>Revista Signos</i> , 2014, 47, 463-485. | 0.1 | 7 |
| 117 | Recognition of Named Entities in Spanish Texts. <i>Lecture Notes in Computer Science</i> , 2004, , 420-429. | 1.0 | 7 |
| 118 | On Correction of Semantic Errors in Natural Language Texts with a Dictionary of Literal Paronyms. <i>Lecture Notes in Computer Science</i> , 2004, , 105-114. | 1.0 | 6 |
| 119 | Graph Ranking on Maximal Frequent Sequences for Single Extractive Text Summarization. <i>Lecture Notes in Computer Science</i> , 2014, , 466-480. | 1.0 | 6 |
| 120 | Recognizing Textual Entailment in Non-english Text via Automatic Translation into English. <i>Lecture Notes in Computer Science</i> , 2013, , 26-35. | 1.0 | 6 |
| 121 | Using Graphs for Shallow Question Answering on Legal Documents. <i>Lecture Notes in Computer Science</i> , 2008, , 165-173. | 1.0 | 6 |
| 122 | Adaptation of Sentiment Analysis Techniques to Persian Language. <i>Lecture Notes in Computer Science</i> , 2018, , 129-140. | 1.0 | 6 |
| 123 | Performance Study of N-grams in the Analysis of Sentiments. <i>Journal of the Nigerian Society of Physical Sciences</i> , 0, , 477-483. | 0.0 | 6 |
| 124 | Coherence maintenance in human-machine dialogue: indirect antecedents and ellipses. , 0, , . | | 5 |
| 125 | Unsupervised WSD by Finding the Predominant Sense Using Context as a Dynamic Thesaurus. <i>Journal of Computer Science and Technology</i> , 2010, 25, 1030-1039. | 0.9 | 5 |
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| 127 | A hybrid textual entailment system using lexical and syntactic features. , 2010, , . | | 5 |
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| 129 | A simple hybrid approach to recognizing textual entailment. Journal of Intelligent and Fuzzy Systems, 2018, 34, 2873-2885. | 0.8 | 5 |
| 130 | Analysis on application of swarm-based techniques in processing remote sensed data. Earth Science Informatics, 2020, 13, 97-113. | 1.6 | 5 |
| 131 | DILLUCT: An Open-Source Spanish Dependency Parser Based on Rules, Heuristics, and Selectional Preferences. Lecture Notes in Computer Science, 2006, , 164-175. | 1.0 | 5 |
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| 133 | Supervised Machine Learning for Predicting the Meaning of Verb-Noun Combinations in Spanish. Lecture Notes in Computer Science, 2010, , 196-207. | 1.0 | 5 |
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| 139 | UrduThreat@ FIRE2021: Shared Track on Abusive Threat Identification in Urdu. , 2021, , . | | 5 |
| 140 | Automatic detection of semantically primitive words using their reachability in an explanatory dictionary. , 0, , . | | 4 |
| 141 | Text mining with conceptual graphs. , 0, , . | | 4 |
| 142 | On fast path-finding algorithms in AND-OR graphs. Mathematical Problems in Engineering, 2002, 8, 283-293. | 0.6 | 4 |
| 143 | Statistical Relational Learning to Recognise Textual Entailment. Lecture Notes in Computer Science, 2014, , 330-339. | 1.0 | 4 |
| 144 | Extraction of Semantic Relations from Opinion Reviews in Spanish. Lecture Notes in Computer Science, 2014, , 175-190. | 1.0 | 4 |

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| 148 | Leveraging label hierarchy using transfer and multi-task learning: A case study on patent classification. Neurocomputing, 2021, 464, 421-431. | 3.5 | 4 |
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| 150 | CookingQA: A Question Answering System Based on Cooking Ontology. Lecture Notes in Computer Science, 2017, , 67-78. | 1.0 | 4 |
| 151 | Music Composition Based on Linguistic Approach. Lecture Notes in Computer Science, 2010, , 117-128. | 1.0 | 4 |
| 152 | SMSFR: SMS-Based FAQ Retrieval System. Lecture Notes in Computer Science, 2013, , 36-45. | 1.0 | 4 |
| 153 | Wikipedia-based Learning Path Generation. Computacion Y Sistemas, 2015, 19, . | 0.2 | 4 |
| 154 | Improving the Boilerpipe Algorithm for Boilerplate Removal in News Articles Using HTML Tree Structure. Computacion Y Sistemas, 2018, 22, . | 0.2 | 4 |
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| 156 | Detección automática de primitivas semánticas en diccionarios explicativos con algoritmos bioinspirados. Onomazein, 0, 29, 104-117. | 0.1 | 4 |
| 157 | Computational Linguistics and Intelligent Text Processing. Lecture Notes in Computer Science, 2009, , . | 1.0 | 4 |
| 158 | Is the Most Frequent Sense of a Word Better Connected in a Semantic Network?. Lecture Notes in Computer Science, 2015, , 491-499. | 1.0 | 4 |
| 159 | Detection of Adverse Drug Reaction in Tweets Using a Combination of Heterogeneous Word Embeddings. , 2019, , . | | 4 |
| 160 | Various Criteria of Collocation Cohesion in Internet: Comparison of Resolving Power. , 2008, , 64-72. | | 4 |
| 161 | Greedy Optimization Method for Extractive Summarization of Scientific Articles. IEEE Access, 2021, 9, 168141-168153. | 2.6 | 4 |
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| 164 | Advances in Swarm and Computational Intelligence. Lecture Notes in Computer Science, 2015, , . | 1.0 | 3 |
| 165 | Plagiarism Detection with Genetic-Based Parameter Tuning. International Journal of Pattern Recognition and Artificial Intelligence, 2018, 32, 1860006. | 0.7 | 3 |
| 166 | On redundancy in multi-document summarization1. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3245-3255. | 0.8 | 3 |
| 167 | Scientific Text Entailment and a Textual-Entailment-based framework for cooking domain question answering. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1. | 0.8 | 3 |
| 168 | Improved Change Detection in Remote Sensed Images by Artificial Intelligence Techniques. Journal of the Indian Society of Remote Sensing, 2021, 49, 2079-2092. | 1.2 | 3 |
| 169 | Document Title Patterns in Information Retrieval. Lecture Notes in Computer Science, 1999, , 372-375. | 1.0 | 3 |
| 170 | Question Answering System for Frequently Asked Questions. , 2016, , 129-133. | | 3 |
| 171 | Tool for Computer-Aided Spanish Word Sense Disambiguation. Lecture Notes in Computer Science, 2003, , 277-280. | 1.0 | 3 |
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| 183 | Adaptive evolution. , 2009, , . | | 2 |
| 184 | Semantic relations between collocations: A Spanish case study. Revista Signos, 2012, 45, 5-6. | 0.1 | 2 |
| 185 | Mining Parallel Resources for Machine Translation from Comparable Corpora. Lecture Notes in Computer Science, 2015, , 534-544. | 1.0 | 2 |
| 186 | Sentiment analysis and opinion mining: Keynote address. , 2017, , . | | 2 |
| 187 | Multiword Expressions (MWE) for Mizo Language: Literature Survey. Lecture Notes in Computer Science, 2018, , 623-635. | 1.0 | 2 |
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| 190 | Correlation Measures for Bipolar Rating Profiles. Advances in Intelligent Systems and Computing, 2018, , 22-32. | 0.5 | 2 |
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