# Tianyong Hao

List of Publications by Year
in descending order

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|---|---|---|---|
| 119<br>papers | 1,475<br>citations | 361413<br>20<br>h-index | 434195<br>31<br>g-index |
| 136<br>all docs | 136<br>docs citations | 136<br>times ranked | 1083<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Exploring two decades of research on classroom dialogue by using bibliometric analysis. Computers and Education, 2019, 137, 12-31. | 8.3 | 117 |
| 2 | Online Transfer Learning with Multiple Homogeneous or Heterogeneous Sources. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1494-1507. | 5.7 | 89 |
| 3 | A bibliometric analysis of natural language processing in medical research. BMC Medical Informatics and Decision Making, 2018, 18, 14. | 3.0 | 89 |
| 4 | A bibliometric analysis of text mining in medical research. Soft Computing, 2018, 22, 7875-7892. | 3.6 | 63 |
| 5 | A bibliometric analysis of event detection in social media. Online Information Review, 2019, 43, 29-52. | 3.2 | 61 |
| 6 | Clustering clinical trials with similar eligibility criteria features. Journal of Biomedical Informatics, 2014, 52, 112-120. | 4.3 | 57 |
| 7 | Discovering thematic change and evolution of utilizing social media for healthcare research. BMC Medical Informatics and Decision Making, 2019, 19, 50. | 3.0 | 51 |
| 8 | Research topics, author profiles, and collaboration networks in the top-ranked journal on educational technology over the past 40Âyears: a bibliometric analysis. Journal of Computers in Education, 2019, 6, 563-585. | 8.3 | 45 |
| 9 | Prediction of COVID-19 spreading profiles in South Korea, Italy and Iran by data-driven coding. PLoS ONE, 2020, 15, e0234763. | 2.5 | 35 |
| 10 | Valx: A System for Extracting and Structuring Numeric Lab Test Comparison Statements from Text. Methods of Information in Medicine, 2016, 55, 266-275. | 1.2 | 34 |
| 11 | A Framework for Automated Knowledge Graph Construction Towards Traditional Chinese Medicine. Lecture Notes in Computer Science, 2017, , 170-181. | 1.3 | 32 |
| 12 | An CNN-LSTM Attention Approach to Understanding User Query Intent from Online Health Communities. , 2017, , . | | 32 |
| 13 | A comparative quantitative study of utilizing artificial intelligence on electronic health records in the USA and China during 2008â€"2017. BMC Medical Informatics and Decision Making, 2018, 18, 117. | 3.0 | 30 |
| 14 | A Bidirectional LSTM and Conditional Random Fields Approach to Medical Named Entity Recognition. Advances in Intelligent Systems and Computing, 2018, , 355-365. | 0.6 | 29 |
| 15 | Recent progress in leveraging deep learning methods for question answering. Neural Computing and Applications, 2022, 34, 2765-2783. | 5.6 | 26 |
| 16 | A user reputation model for a user-interactive question answering system. Concurrency Computation Practice and Experience, 2007, 19, 2091-2103. | 2.2 | 25 |
| 17 | A Web-Based Platform for User-Interactive Question-Answering. World Wide Web, 2009, 12, 107-124. | 4.0 | 23 |
| 18 | Semantic patterns for userâ€interactive question answering. Concurrency Computation Practice and Experience, 2008, 20, 783-799. | 2.2 | 22 |

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| 19 | Online role mining for context-aware mobile service recommendation. Personal and Ubiquitous Computing, 2014, 18, 1029-1046. | 2.8 | 22 |
| 20 | A Bibliometric Analysis of the Research Status of the Technology Enhanced Language Learning. Lecture Notes in Computer Science, 2018, , 169-179. | 1.3 | 22 |
| 21 | Leveraging question target word features through semantic relation expansion for answer type classification. Knowledge-Based Systems, 2017, 133, 43-52. | 7.1 | 21 |
| 22 | A Bibliometric Review of Natural Language Processing Empowered Mobile Computing. Wireless Communications and Mobile Computing, 2018, 2018, 1-21. | 1.2 | 21 |
| 23 | Large‐scale extraction of drug–disease pairs from the medical literature. Journal of the Association for Information Science and Technology, 2017, 68, 2649-2661. | 2.9 | 21 |
| 24 | Finding similar questions in collaborative question answering archives: toward bootstrapping-based equivalent pattern learning. Information Retrieval, 2012, 15, 332-353. | 2.0 | 20 |
| 25 | A Topic-Based Bibliometric Analysis of Two Decades of Research on the Application of Technology in Classroom Dialogue. Journal of Educational Computing Research, 2020, 58, 1311-1341. | 5.5 | 18 |
| 26 | Automatic Classification of Semantic Content of Classroom Dialogue. Journal of Educational Computing Research, 2021, 59, 496-521. | 5.5 | 18 |
| 27 | Automatic Question Generation for Learning Evaluation in Medicine. Lecture Notes in Computer Science, 2008, , 242-251. | 1.3 | 17 |
| 28 | SBLC: a hybrid model for disease named entity recognition based on semantic bidirectional LSTMs and conditional random fields. BMC Medical Informatics and Decision Making, 2018, 18, 114. | 3.0 | 16 |
| 29 | A method for analyzing commonalities in clinical trial target populations. AMIA ... Annual Symposium proceedings, 2014, 2014, 1777-86. | 0.2 | 16 |
| 30 | A Data-Driven Approach for Discovering the Recent Research Status of Diabetes in China. Lecture Notes in Computer Science, 2017, , 89-101. | 1.3 | 14 |
| 31 | Automatic categorization of questions for user-interactive question answering. Information Processing and Management, 2011, 47, 147-156. | 8.6 | 13 |
| 32 | A pattern learning-based method for temporal expression extraction and normalization from multi-lingual heterogeneous clinical texts. BMC Medical Informatics and Decision Making, 2018, 18, 22. | 3.0 | 13 |
| 33 | Identifying epidemic spreading dynamics of COVID-19 by pseudocoevolutionary simulated annealing optimizers. Neural Computing and Applications, 2021, 33, 4915-4928. | 5.6 | 13 |
| 34 | Discovering the Recent Research in Natural Language Processing Field Based on a Statistical Approach. Lecture Notes in Computer Science, 2017, , 507-517. | 1.3 | 13 |
| 35 | Artificial Intelligence-Based Pharmacovigilance in the Setting of Limited Resources. Drug Safety, 2022, 45, 511-519. | 3.2 | 13 |
| 36 | Context-Aware Service Recommendation for Moving Connected Devices. , 2012, , . | | 12 |

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| 37 | A Pattern-Based Method for Medical Entity Recognition From Chinese Diagnostic Imaging Text. Frontiers in Artificial Intelligence, 2019, 2, 1. | 3.4 | 12 |
| 38 | Comparative Study of COVID-19 Pandemic Progressions in 175 Regions in Australia, Canada, Italy, Japan, Spain, U.K. and USA Using a Novel Model That Considers Testing Capacity and Deficiency in Confirming Infected Cases. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2836-2847. | 6.3 | 12 |
| 39 | Health Natural Language Processing: Methodology Development and Applications. JMIR Medical Informatics, 2021, 9, e23898. | 2.6 | 12 |
| 40 | Adaptation rule learning for case‐based reasoning. Concurrency Computation Practice and Experience, 2009, 21, 673-689. | 2.2 | 10 |
| 41 | A Hybrid Neural Network RBERT-C Based on Pre-trained RoBERTa and CNN for User Intent Classification. Communications in Computer and Information Science, 2020, , 306-319. | 0.5 | 10 |
| 42 | Chinese Version of the Mobile Health App Usability Questionnaire: Translation, Adaptation, and Validation Study. JMIR Formative Research, 2022, 6, e37933. | 1.4 | 10 |
| 43 | A bibliometric and visual analysis of artificial intelligence technologies-enhanced brain MRI research. Multimedia Tools and Applications, 2021, 80, 17335-17363. | 3.9 | 9 |
| 44 | Extracting and Normalizing Temporal Expressions in Clinical Data Requests from Researchers. Lecture Notes in Computer Science, 2013, , 41-51. | 1.3 | 9 |
| 45 | Trends and Features of Human Brain Research Using Artificial Intelligence Techniques: A Bibliometric Approach. Communications in Computer and Information Science, 2019, , 69-83. | 0.5 | 8 |
| 46 | Semantic Pattern for User-Interactive Question Answering. , 2006, , . |  | 7 |
| 47 | Adaptation Rule Learning for Case-Based Reasoning. , 2007, , . |  | 7 |
| 48 | A Hybrid Neural Network BERT-Cap Based on Pre-Trained Language Model and Capsule Network for User Intent Classification. Complexity, 2020, 2020, 1-11. | 1.6 | 7 |
| 49 | A Knowledge Selective Adversarial Network for Link Prediction in Knowledge Graph. Lecture Notes in Computer Science, 2019, , 171-183. | 1.3 | 7 |
| 50 | A WordNet Expansion-Based Approach for Question Targets Identification and Classification. Lecture Notes in Computer Science, 2015, , 333-344. | 1.3 | 7 |
| 51 | Using a User-Interactive QA System for Personalized E-Learning. International Journal of Distance Education Technologies, 2008, 6, 1-22. | 2.9 | 7 |
| 52 | Adaptive Semantic Tag Mining from Heterogeneous Clinical Research Texts. Methods of Information in Medicine, 2015, 54, 164-170. | 1.2 | 6 |
| 53 | An approach for transgender population information extraction and summarization from clinical trial text. BMC Medical Informatics and Decision Making, 2019, 19, 62. | 3.0 | 6 |
| 54 | Aggregating neighborhood information for negative sampling for knowledge graph embedding. Neural Computing and Applications, 2020, 32, 17637-17653. | 5.6 | 6 |

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| 55 | Learning knowledge graph embedding with a bi-directional relation encoding network and a convolutional autoencoder decoding network. Neural Computing and Applications, 2021, 33, 11157-11173. | 5.6 | 6 |
| 56 | Automated classification of clinical trial eligibility criteria text based on ensemble learning and metric learning. BMC Medical Informatics and Decision Making, 2021, 21, 129. | 3.0 | 6 |
| 57 | Automatic Generation of Semantic Patterns for User-Interactive Question Answering. , 2008, , 632-637. | | 6 |
| 58 | Toward Automatic Answers in User-Interactive Question Answering Systems. International Journal of Software Science and Computational Intelligence, 2011, 3, 52-66. | 3.0 | 6 |
| 59 | Adaptation Rule Learning for Case-Based Reasoning. , 2007, , . | | 5 |
| 60 | Systematic Comparison of Question Target Classification Taxonomies Towards Question Answering. Communications in Computer and Information Science, 2015, , 131-143. | 0.5 | 5 |
| 61 | Predicting Health Material Accessibility: Development of Machine Learning Algorithms. JMIR Medical Informatics, 2021, 9, e29175. | 2.6 | 5 |
| 62 | Interventions in Chinese Undergraduate Students' Mental Health: Systematic Review. Interactive Journal of Medical Research, 2022, 11, e38249. | 1.4 | 5 |
| 63 | Categorizing and ranking search engine's results by semantic similarity. , 2008, , . | | 4 |
| 64 | Domain knowledge acquisition by automatic semantic annotating and pattern mining. , 2012, , . | | 4 |
| 65 | A Feature Extraction and Expansion-Based Approach for Question Target Identification and Classification. Lecture Notes in Computer Science, 2017, , 249-260. | 1.3 | 4 |
| 66 | Revealing Learner Interests through Topic Mining from Question-Answering Data. International Journal of Distance Education Technologies, 2017, 15, 18-32. | 2.9 | 4 |
| 67 | A Semantic-Context Ranking Approach forÂCommunity-Oriented English Lexical Simplification. Lecture Notes in Computer Science, 2018, , 784-796. | 1.3 | 4 |
| 68 | Capsule-Based Bidirectional Gated Recurrent Unit Networks for Question Target Classification. Lecture Notes in Computer Science, 2018, , 67-77. | 1.3 | 4 |
| 69 | The psychosis analysis in real-world on a cohort of large-scale patients with schizophrenia. BMC Medical Informatics and Decision Making, 2020, 20, 132. | 3.0 | 4 |
| 70 | Syntax-aware neural machine translation directed by syntactic dependency degree. Neural Computing and Applications, 2021, 33, 16609-16625. | 5.6 | 4 |
| 71 | Predicting Risks of Machine Translations of Public Health Resources by Developing Interpretable Machine Learning Classifiers. International Journal of Environmental Research and Public Health, 2021, 18, 8789. | 2.6 | 4 |
| 72 | The Design and Application of an Web-Based Online Examination System. Lecture Notes in Computer Science, 2020, , 246-256. | 1.3 | 4 |

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| 73 | A Systematic Review of Frameworks for Coding Towards Classroom Dialogue. Lecture Notes in Computer Science, 2020, , 226-236. | 1.3 | 4 |
| 74 | Language Use in Conversational Agentâ€"Based Health Communication: Systematic Review. Journal of Medical Internet Research, 2022, 24, e37403. | 4.3 | 4 |
| 75 | Bootstrap-Based Equivalent Pattern Learning for Collaborative Question Answering. Lecture Notes in Computer Science, 2012, , 318-329. | 1.3 | 3 |
| 76 | QSem: A novel question representation framework for question matching over accumulated questionâ€"answer data. Journal of Information Science, 2016, 42, 583-596. | 3.3 | 3 |
| 77 | An Automated Approach for Clinical Quantitative Information Extraction from Chinese Electronic Medical Records. Lecture Notes in Computer Science, 2018, , 98-109. | 1.3 | 3 |
| 78 | Quantifying and Visualizing the Research Status of Social Media and Health Research Field. , 2019, , 31-51. | | 3 |
| 79 | Neural Machine Translation with Attention Based on a New Syntactic Branch Distance. Communications in Computer and Information Science, 2019, , 47-57. | 0.5 | 3 |
| 80 | Detecting Symptom Errors in Neural Machine Translation of Patient Health Information on Depressive Disorders: Developing Interpretable Bayesian Machine Learning Classifiers. Frontiers in Psychiatry, 2021, 12, 771562. | 2.6 | 3 |
| 81 | A New Context-Aware Method Based on Hybrid Ranking for Community-Oriented Lexical Simplification. Lecture Notes in Computer Science, 2020, , 80-92. | 1.3 | 3 |
| 82 | Automatic question answering from Web documents. Wuhan University Journal of Natural Sciences, 2007, 12, 875-880. | 0.4 | 2 |
| 83 | Automatic Question Translation Based on Semantic Pattern. , 2008, , . | | 2 |
| 84 | A topical diversity-based approach to detecting similar question groups from collaborative question-answering archives. Web Intelligence, 2016, 14, 301-308. | 0.2 | 2 |
| 85 | A user-oriented semantic annotation approach to knowledge acquisition and conversion. Journal of Information Science, 2017, 43, 393-411. | 3.3 | 2 |
| 86 | A CRFs-Based Approach Empowered with Word Representation Features to Learning Biomedical Named Entities from Medical Text. Lecture Notes in Computer Science, 2017, , 518-527. | 1.3 | 2 |
| 87 | Clinical quantitative information recognition and entity-quantity association from Chinese electronic medical records. International Journal of Machine Learning and Cybernetics, 2021, 12, 117-130. | 3.6 | 2 |
| 88 | Discovering Commonly Shared Semantic Concepts of Eligibility Criteria for Learning Clinical Trial Design. Lecture Notes in Computer Science, 2015, , 3-13. | 1.3 | 2 |
| 89 | A Bi-directional Relation Aware Network for Link Prediction in Knowledge Graph. Communications in Computer and Information Science, 2020, , 259-271. | 0.5 | 2 |
| 90 | The Construction of a Diabetes-oriented Frequently Asked Question Corpus for Automated Question-Answering Services. , 2020, , . | | 2 |

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| 91 | Designing Interactive Exercises for Corpus-Based English Learning with Hot Potatoes Software. Lecture Notes in Computer Science, 2017, , 485-494. | 1.3 | 2 |
| 92 | A Hybrid Model for Community-Oriented Lexical Simplification. Lecture Notes in Computer Science, 2020, , 132-144. | 1.3 | 2 |
| 93 | Developing Machine Learning and Statistical Tools to Evaluate the Accessibility of Public Health Advice on Infectious Diseases among Vulnerable People. Computational Intelligence and Neuroscience, 2021, 2021, 1-14. | 1.7 | 2 |
| 94 | Probabilistic Prediction of Nonadherence to Psychiatric Disorder Medication from Mental Health Forum Data: Developing and Validating Bayesian Machine Learning Classifiers. Computational Intelligence and Neuroscience, 2022, 2022, 1-15. | 1.7 | 2 |
| 95 | Use of Health Care Chatbots Among Young People in China During the Omicron Wave of COVID-19: Evaluation of the User Experience of and Satisfaction With the Technology. JMIR Human Factors, 2022, 9, e36831. | 2.0 | 2 |
| 96 | An Empirical Study of Corpora Application in Data-Driven English Lexical Learning. Lecture Notes in Computer Science, 2017, , 370-381. | 1.3 | 1 |
| 97 | A Feature-Enriched Method for User Intent Classification by Leveraging Semantic Tag Expansion. Lecture Notes in Computer Science, 2018, , 224-234. | 1.3 | 1 |
| 98 | Predicting the Easiness and Complexity of English Health Materials for International Tertiary Students With Linguistically Enhanced Machine Learning Algorithms: Development and Validation Study. JMIR Medical Informatics, 2021, 9, e25110. | 2.6 | 1 |
| 99 | Predicting Writing Styles of Web-Based Materials for Children's Health Education Using the Selection of Semantic Features: Machine Learning Approach. JMIR Medical Informatics, 2021, 9, e30115. | 2.6 | 1 |
| 100 | An Automated Method for Gender Information Identification from Clinical Trial Texts. Lecture Notes in Computer Science, 2016, , 109-118. | 1.3 | 1 |
| 101 | Towards A Comprehensive Semantic Annotation Methodfor Knowledge Acquisition from Classical Chinese Poetry. International Journal of Information and Education Technology, 2012, , 204-207. | 1.2 | 1 |
| 102 | A Pattern-based Annotation Transformation Schema for Knowledge Exchange. International Journal of Information and Education Technology, 2012, , 247-250. | 1.2 | 1 |
| 103 | Pedagogical Principle Based E-learning Exploration: A Case of Construction Mediation Training. Lecture Notes in Computer Science, 2017, , 539-547. | 1.3 | 1 |
| 104 | The Analysis of Worldwide Research on Artificial Intelligence Assisted User Modeling. Lecture Notes in Computer Science, 2020, , 201-213. | 1.3 | 1 |
| 105 | Acquiring Procedural Knowledge Historical Text. , 2007, , . | | 0 |
| 106 | Acquiring Procedural Knowledge Historical Text. , 2007, , . | | 0 |
| 107 | Automatically answering repeated questions based on semantic question patterns. , 2011, , . | | 0 |
| 108 | Automatic Short Text Annotation for Question Answering System. Lecture Notes in Business Information Processing, 2011, , 245-258. | 1.0 | 0 |

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| 109 | Toward a Professional Platform for Chinese Character Conversion. ACM Transactions on Asian Language Information Processing, 2013, 12, 1-22. | 0.8 | 0 |
| 110 | Online Multi-Instance Multi-Label learning for protein function prediction. , 2016, , . | | 0 |
| 111 | Natural Language Processing Empowered Mobile Computing. Wireless Communications and Mobile Computing, 2018, 2018, 1-2. | 1.2 | 0 |
| 112 | Indefinite Kernels in One-Class Support Vector Machine and its Application on Virtual Screening. , 2019, , . | | 0 |
| 113 | Detecting Critical Conceptual Mistakes in Google Translated Medical Information on Infectious Diseases: using Bayesian Machine Learning Classifiers (Preprint). JMIR Medical Informatics, 0, , . | 2.6 | 0 |
| 114 | Toward Automatic Answers in User-Interactive Question Answering Systems. , 2013, , 88-101. | | 0 |
| 115 | Leveraging Semantic Labeling for Question Matching to Facilitate Question-Answer Archive Reuse. Lecture Notes in Computer Science, 2015, , 65-75. | 1.3 | 0 |
| 116 | Supporting Risk-Aware Use of Online Translation Tools in Delivering Mental Healthcare Services among Spanish-Speaking Populations. Computational Intelligence and Neuroscience, 2021, 2021, 1-13. | 1.7 | 0 |
| 117 | Leveraging Neural Network-Based Model for Context Classification of Classroom Dialogue Text. Communications in Computer and Information Science, 2020, , 323-336. | 0.5 | 0 |
| 118 | Leveraging Statistic and Semantic Features for Similar Question Detection Using Fusion XGBoost. Lecture Notes in Computer Science, 2020, , 106-120. | 1.3 | 0 |
| 119 | Fast medical concept normalization for biomedical literature based on stack and index optimized self-attention. Neural Computing and Applications, 0, , . | 5.6 | 0 |