# Haitao Liu

List of Publications by Year
in descending order



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|---|---|---|---|
| 127 papers | 3,031 citations | 136950 32 h-index | 206112 48 g-index |
| 130 all docs | 130 docs citations | 130 times ranked | 1672 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Choose Appropriate Subproblems for Collaborative Modeling in Expensive Multiobjective Optimization. IEEE Transactions on Cybernetics, 2023, 53, 483-496. | 9.5 | 25 |
| 2 | Increased LCN2 (lipocalin 2) in the RPE decreases autophagy and activates inflammasome-ferroptosis processes in a mouse model of dry AMD. Autophagy, 2023, 19, 92-111. | 9.1 | 41 |
| 3 | Deep Latent-Variable Kernel Learning. IEEE Transactions on Cybernetics, 2022, 52, 10276-10289. | 9.5 | 1 |
| 4 | Scalable Gaussian Process Classification With Additive Noise for Non-Gaussian Likelihoods. IEEE Transactions on Cybernetics, 2022, 52, 5842-5854. | 9.5 | 7 |
| 5 | The Effect of Inflow Distortion on the Rotordynamic Characteristics of a 1400-MW Reactor Coolant Pump Annular Seal. Machines, 2022, 10, 65. | 2.2 | 1 |
| 6 | Scalable multi-task Gaussian processes with neural embedding of coregionalization. Knowledge-Based Systems, 2022, 247, 108775. | 7.1 | 3 |
| 7 | Analysis of 3-DOF Cutting Stability of Titanium Alloy Helical Milling Based on PKM and Machining Quality Optimization. Machines, 2022, 10, 404. | 2.2 | 4 |
| 8 | Nanomedicine platform for targeting activated neutrophils and neutrophilâ€“platelet complexes using an Î±1-antitrypsin-derived peptide motif. Nature Nanotechnology, 2022, 17, 1004-1014. | 31.5 | 26 |
| 9 | Large-Scale Heteroscedastic Regression via Gaussian Process. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 708-721. | 11.3 | 9 |
| 10 | Role of glia in optic nerve. Progress in Retinal and Eye Research, 2021, 81, 100886. | 15.5 | 23 |
| 11 | Î²A1-crystallin regulates glucose metabolism and mitochondrial function in mouse retinal astrocytes by modulating PTP1B activity. Communications Biology, 2021, 4, 248. | 4.4 | 10 |
| 12 | Î²A3/A1-crystallin regulates apical polarity and EGFR endocytosis in retinal pigmented epithelial cells. Communications Biology, 2021, 4, 850. | 4.4 | 13 |
| 13 | Regulation of Adrenergic, Serotonin, and Dopamine Receptors to Inhibit Diabetic Retinopathy: Monotherapies versus Combination Therapies. Molecular Pharmacology, 2021, 100, 470-479. | 2.3 | 6 |
| 14 | Calibrated and recalibrated expected improvements for Bayesian optimization. Structural and Multidisciplinary Optimization, 2021, 64, 3549-3567. | 3.5 | 7 |
| 15 | Bayesian Optimization Design of Inlet Volute for Supercritical Carbon Dioxide Radial-Flow Turbine. Machines, 2021, 9, 218. | 2.2 | 3 |
| 16 | Modulating scalable Gaussian processes for expressive statistical learning. Pattern Recognition, 2021, 120, 108121. | 8.1 | 4 |
| 17 | BNIP3L-mediated mitophagy is required for mitochondrial remodeling during the differentiation of optic nerve oligodendrocytes. Autophagy, 2021, 17, 3140-3159. | 9.1 | 37 |
| 18 | Neutrophil-Derived Proteases Contribute to the Pathogenesis of Early Diabetic Retinopathy. , 2021, 62, 7. | | 12 |

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|---|---|---|---|
| 19 | The role of lipocalin-2 in age-related macular degeneration (AMD). Cellular and Molecular Life Sciences, 2020, 77, 835-851. | 5.4 | 23 |
| 20 | Do English noun phrases tend to minimize dependency distance?. Australian Journal of Linguistics, 2020, 40, 246-262. | 0.4 | 2 |
| 21 | Successful induction of diabetes in mice demonstrates no gender difference in development of early diabetic retinopathy. PLoS ONE, 2020, 15, e0238727. | 2.5 | 44 |
| 22 | Some quantitative aspects of written and spoken French based on syntactically annotated corpora. Journal of French Language Studies, 2020, 30, 355-380. | 0.1 | 5 |
| 23 | Numerical investigation of aerodynamic load on the impellers of centrifugal compressor with leakage flow. International Journal of Fluid Machinery and Systems, 2020, 13, 409-424. | 0.2 | 1 |
| 24 | A simple and visually orientated approach for type synthesis of overconstrained 1T2R parallel mechanisms. Robotica, 2019, 37, 1161-1173. | 1.9 | 35 |
| 25 | Neutrophil elastase contributes to the pathological vascular permeability characteristic of diabetic retinopathy. Diabetologia, 2019, 62, 2365-2374. | 6.3 | 35 |
| 26 | Syntactic complexity development in the writings of EFL learners: Insights from a dependency syntactically-annotated corpus. Journal of Second Language Writing, 2019, 46, 100666. | 3.0 | 39 |
| 27 | Diabetes induces IL-17A-Act1-FADD-dependent retinal endothelial cell death and capillary degeneration. Journal of Diabetes and Its Complications, 2019, 33, 668-674. | 2.3 | 24 |
| 28 | Interlanguage: a perspective of quantitative linguistic typology. Language Sciences, 2019, 74, 85-97. | 1.0 | 15 |
| 29 | Diabetes-mediated IL-17A enhances retinal inflammation, oxidative stress, and vascular permeability. Cellular Immunology, 2019, 341, 103921. | 3.0 | 41 |
| 30 | Does Scale-Free Syntactic Network Emerge in Second Language Learning?. Frontiers in Psychology, 2019, 10, 925. | 2.1 | 16 |
| 31 | Valency and English learnersâ€™ thesauri. International Journal of Lexicography, 2019, 32, 326-361. | 0.2 | 2 |
| 32 | What factors are associated with dependency distances to ensure easy comprehension? A case study of ba sentences in Mandarin Chinese. Language Sciences, 2018, 67, 33-45. | 1.0 | 3 |
| 33 | Harmony in diversity: The language codes in Englishâ€“Chinese poetry translation. Digital Scholarship in the Humanities, 2018, 33, 128-142. | 0.7 | 11 |
| 34 | An approach for elastodynamic modeling of hybrid robots based on substructure synthesis technique. Mechanism and Machine Theory, 2018, 123, 124-136. | 4.5 | 26 |
| 35 | Stiffness modeling and analysis of a novel 5-DOF hybrid robot. Mechanism and Machine Theory, 2018, 125, 80-93. | 4.5 | 61 |
| 36 | Thematic Concentration as a Discriminating Feature of Text Types. Journal of Quantitative Linguistics, 2018, 25, 53-76. | 1.2 | 3 |

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|---|---|---|---|
| 37 | Hysteresis modeling and trajectory tracking control of the pneumatic muscle actuator using modified Prandtlâ€“Ishlinskii model. Mechanism and Machine Theory, 2018, 120, 213-224. | 4.5 | 64 |
| 38 | Photobiomodulation Inhibits Long-term Structural and Functional Lesions of Diabetic Retinopathy. Diabetes, 2018, 67, 291-298. | 0.6 | 52 |
| 39 | Is Trump always rambling like a fourth-grade student? An analysis of stylistic features of Donald Trumpâ€™s political discourse during the 2016 election. Discourse and Society, 2018, 29, 299-323. | 2.6 | 36 |
| 40 | Interrelations among Dependency Tree Widths, Heights and Sentence Lengths. , 2018, , 31-52. | | 2 |
| 41 | Regular Dynamic Patterns of Verbal Valency Ellipsis in Modern Spoken Chinese. , 2018, , 101-118. | | 0 |
| 42 | Dynamic Valency and Dependency Distance. , 2018, , 145-166. | | 0 |
| 43 | Quantifying Evolution of Short and Long-Range Correlations in Chinese Narrative Texts across 2000 Years. Complexity, 2018, 2018, 1-12. | 1.6 | 3 |
| 44 | Language as a human-driven complex adaptive system. Physics of Life Reviews, 2018, 26-27, 149-151. | 2.8 | 19 |
| 45 | Continuous Friction Feedforward Sliding Mode Controller for a TriMule Hybrid Robot. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1673-1683. | 5.8 | 43 |
| 46 | How does language change as a lexical network? An investigation based on written Chinese word co-occurrence networks. PLoS ONE, 2018, 13, e0192545. | 2.5 | 20 |
| 47 | Development of an In-Pipe Robot with a Novel Differential Mechanism. Mechanisms and Machine Science, 2018, , 1079-1097. | 0.5 | 1 |
| 48 | Stiffness Modeling of Parallel Mechanisms at Limb and Joint/Link Levels. IEEE Transactions on Robotics, 2017, 33, 734-741. | 10.3 | 64 |
| 49 | An Approach for Computing the Transmission Index of Full Mobility Planar Multiloop Mechanisms. Journal of Mechanisms and Robotics, 2017, 9, . | 2.2 | 10 |
| 50 | Dependency distance: A new perspective on syntactic patterns in natural languages. Physics of Life Reviews, 2017, 21, 171-193. | 2.8 | 158 |
| 51 | Force/motion transmissibility analyses of redundantly actuated and overconstrained parallel manipulators. Mechanism and Machine Theory, 2017, 109, 126-138. | 4.5 | 30 |
| 52 | Motifs in Reconstructed RST Discourse Trees. Journal of Quantitative Linguistics, 2017, 24, 107-127. | 1.2 | 3 |
| 53 | Macroscopic linguistic features of the Chinese writing of deaf individuals. British Journal of Special Education, 2017, 44, 313-340. | 0.4 | 0 |
| 54 | An Approach for the Lightweight Design of a 3-SPR Parallel Mechanism. Journal of Mechanisms and Robotics, 2017, 9, . | 2.2 | 11 |

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|---|---|---|---|
| 55 | DDM at Work. Physics of Life Reviews, 2017, 21, 233-240. | 2.8 | 0 |
| 56 | Photoreceptor cells produce inflammatory products that contribute to retinal vascular permeability in a mouse model of diabetes. Diabetologia, 2017, 60, 2111-2120. | 6.3 | 63 |
| 57 | Microscopic and macroscopic approaches to the mental representations of second languages. Behavioral and Brain Sciences, 2017, 40, e285. | 0.7 | 0 |
| 58 | How will text size influence the length of its linguistic constituents?. Poznan Studies in Contemporary Linguistics, 2017, 53, . | 0.3 | 9 |
| 59 | The effects of genre on dependency distance and dependency direction. Language Sciences, 2017, 59, 135-147. | 1.0 | 47 |
| 60 | An automatic approach for identification of natural reciprocal screw systems of serial kinematic chains based on the invariance properties matrix. Mechanism and Machine Theory, 2017, 107, 352-368. | 4.5 | 4 |
| 61 | From planned language to language planning. Language Problems and Language Planning, 2017, 41, 265-286. | 0.6 | 3 |
| 62 | Dependency Distance Differences across Interpreting Types: Implications for Cognitive Demand. Frontiers in Psychology, 2017, 8, 2132. | 2.1 | 35 |
| 63 | Motion Control of Pneumatic Muscle Actuator Using Fast Switching Valve. Lecture Notes in Electrical Engineering, 2017, , 1439-1451. | 0.4 | 4 |
| 64 | Photoreceptor Cells Produce Inflammatory Mediators That Contribute to Endothelial Cell Death in Diabetes. , 2016, 57, 4264. | | 57 |
| 65 | Can Learning a Foreign Language Foster Analytic Thinking?â€"Evidence from Chinese EFL Learners' Writings. PLoS ONE, 2016, 11, e0164448. | 2.5 | 4 |
| 66 | Chinese Writing of Deaf or Hard-of-Hearing Students and Normal-Hearing Peers from Complex Network Approach. Frontiers in Psychology, 2016, 7, 1777. | 2.1 | 10 |
| 67 | Conceptual design and dimensional synthesis of cam-linkage mechanisms for gait rehabilitation. Mechanism and Machine Theory, 2016, 104, 31-42. | 4.5 | 64 |
| 68 | Rhetorical relations revisited across distinct levels of discourse unit granularity. Discourse Studies, 2016, 18, 454-472. | 1.3 | 5 |
| 69 | Can chunking reduce syntactic complexity of natural languages?. Complexity, 2016, 21, 33-41. | 1.6 | 30 |
| 70 | Kinematic calibration of a 3-DOF spindle head using a double ball bar. Mechanism and Machine Theory, 2016, 102, 167-178. | 4.5 | 31 |
| 71 | A discursive analytical path of appellate court opinions: evaluation of ideological positioning in Bush v. Gore 2000. Text and Talk, 2016, 36, . | 0.6 | 2 |
| 72 | Force analysis of an open TBM grippingâ€"thrustingâ€"regripping mechanism. Mechanism and Machine Theory, 2016, 98, 101-113. | 4.5 | 17 |

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| 73 | How to Measure Word Length in Spoken and Written Chinese. Journal of Quantitative Linguistics, 2016, 23, 5-29. | 1.2 | 20 |
| 74 | Syntactic differences of adverbials and attributives in Chinese-English code-switching. Language Sciences, 2016, 55, 16-35. | 1.0 | 18 |
| 75 | Visualizing structural â€œinverted pyramidsâ€•in English news discourse across levels. Text and Talk, 2016, 36, . | 0.6 | 7 |
| 76 | Syntactic Complex Networks and Their Applications. Understanding Complex Systems, 2016, , 167-186. | 0.6 | 5 |
| 77 | Function Nodes in Chinese Syntactic Networks. Understanding Complex Systems, 2016, , 187-201. | 0.6 | 4 |
| 78 | Diabetic Retinopathy: Retinaâ€Specific Methods for Maintenance of Diabetic Rodents and Evaluation of Vascular Histopathology and Molecular Abnormalities. Current Protocols in Mouse Biology, 2015, 5, 247-270. | 1.2 | 47 |
| 79 | A Dual Space Approach for Force/Motion Transmissibility Analysis of Lower Mobility Parallel Manipulators. Journal of Mechanisms and Robotics, 2015, 7, . | 2.2 | 18 |
| 80 | How Does Word Length Evolve in Written Chinese?. PLoS ONE, 2015, 10, e0138567. | 2.5 | 20 |
| 81 | Photobiomodulation Mitigates Diabetes-Induced Retinopathy by Direct and Indirect Mechanisms: Evidence from Intervention Studies in Pigmented Mice. PLoS ONE, 2015, 10, e0139003. | 2.5 | 45 |
| 82 | Association of affect with vertical position in L1 but not in L2 in unbalanced bilinguals. Frontiers in Psychology, 2015, 6, 693. | 2.1 | 2 |
| 83 | The effects of sentence length on dependency distance, dependency direction and the implicationsâ€“Based on a parallel Englishâ€“Chinese dependency treebank. Language Sciences, 2015, 50, 93-104. | 1.0 | 112 |
| 84 | Can familiarity lessen the effect of locality? A case study of Mandarin Chinese subjects and the following adverbials. Poznan Studies in Contemporary Linguistics, 2015, 51, . | 0.3 | 4 |
| 85 | Metanx and Early Stages of Diabetic Retinopathy. Investigative Ophthalmology and Visual Science, 2015, 56, 647-653. | 3.3 | 24 |
| 86 | Retinylamine Benefits Early Diabetic Retinopathy in Mice. Journal of Biological Chemistry, 2015, 290, 21568-21579. | 3.4 | 44 |
| 87 | Compliance analysis of a 3-SPR parallel mechanism with consideration of gravity. Mechanism and Machine Theory, 2015, 84, 99-112. | 4.5 | 42 |
| 88 | Motives for Chinese script simplification. Language Problems and Language Planning, 2015, 39, 1-32. | 0.6 | 8 |
| 89 | The effects of length and complexity on constituent ordering in written English. Poznan Studies in Contemporary Linguistics, 2014, 50, . | 0.3 | 4 |
| 90 | A generalized approach for computing the transmission index of parallel mechanisms. Mechanism and Machine Theory, 2014, 74, 245-256. | 4.5 | 46 |

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|---|---|---|---|
| 91 | Approaching human language with complex networks. Physics of Life Reviews, 2014, 11, 598-618. | 2.8 | 158 |
| 92 | Synergetic Properties of Chinese Verb Valency. Journal of Quantitative Linguistics, 2014, 21, 1-21. | 1.2 | 18 |
| 93 | Word Length Distribution in Mongolian. Journal of Quantitative Linguistics, 2014, 21, 123-152. | 1.2 | 10 |
| 94 | Linguistic complex networks: Rationale, application, interpretation, and directions. Physics of Life Reviews, 2014, 11, 644-649. | 2.8 | 3 |
| 95 | Quantitative Aspects ofJournal of Quantitative Linguistics. Journal of Quantitative Linguistics, 2014, 21, 299-340. | 1.2 | 6 |
| 96 | Language is more a human-driven system than a semiotic system. Physics of Life Reviews, 2014, 11, 309-310. | 2.8 | 11 |
| 97 | Language clustering with word co-occurrence networks based on parallel texts. Science Bulletin, 2013, 58, 1139-1144. | 1.7 | 73 |
| 98 | Syntactic variations in Chineseâ€“English code-switching. Lingua, 2013, 123, 58-73. | 1.0 | 30 |
| 99 | Noun distribution in natural languages. Poznan Studies in Contemporary Linguistics, 2013, 49, . | 0.3 | 5 |
| 100 | Language Problems and Language Planning. Language Problems and Language Planning, 2013, 37, 151-177. | 0.6 | 3 |
| 101 | Quantitative typological analysis of Romance languages. Poznan Studies in Contemporary Linguistics, 2012, 48, . | 0.3 | 9 |
| 102 | Statistical Analysis of Chinese Phonemic Contrast. Phonetica, 2012, 68, 201-214. | 0.6 | 0 |
| 103 | A General Approach for Geometric Error Modeling of Lower Mobility Parallel Manipulators. Journal of Mechanisms and Robotics, 2011, 3, . | 2.2 | 54 |
| 104 | Quantitative analysis of Zamenhofâ€™s Esenco kaj estonteco. Language Problems and Language Planning, 2011, 35, 57-81. | 0.6 | 4 |
| 105 | Quantitative Properties of English Verb Valency. Journal of Quantitative Linguistics, 2011, 18, 207-233. | 1.2 | 22 |
| 106 | Statistical properties of Chinese phonemic networks. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 1370-1380. | 2.6 | 15 |
| 107 | Can syntactic networks indicate morphological complexity of a language?. Europhysics Letters, 2011, 93, 28005. | 2.0 | 39 |
| 108 | Theoretical probability of dependency structural trees. , 2011, , . | | 0 |

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| 109 | An Approach for Acceleration Analysis of Lower Mobility Parallel Manipulators. Journal of Mechanisms and Robotics, 2011, 3, . | 2.2 | 15 |
| 110 | Probability Distribution of Discourse Relations Based on a Chinese RST-annotated Corpus. Journal of Quantitative Linguistics, 2011, 18, 107-121. | 1.2 | 10 |
| 111 | Language clusters based on linguistic complex networks. Science Bulletin, 2010, 55, 3458-3465. | 1.7 | 51 |
| 112 | Dependency direction as a means of word-order typology: A method based on dependency treebanks. Lingua, 2010, 120, 1567-1578. | 1.0 | 94 |
| 113 | A study on disambiguation of structure “prep+n1+de+n2” for Chinese information processing. , 2010, , . | | 0 |
| 114 | Factors influencing dependency parsing of coordinating structure. , 2009, , . | | 1 |
| 115 | Using a Chinese treebank to measure dependency distance. Corpus Linguistics and Linguistic Theory, 2009, 5, . | 0.9 | 37 |
| 116 | Stiffness Modeling of the Tricept Robot Using the Overall Jacobian Matrix. Journal of Mechanisms and Robotics, 2009, 1, . | 2.2 | 45 |
| 117 | Statistical properties of Chinese semantic networks. Science Bulletin, 2009, 54, 2781-2785. | 9.0 | 62 |
| 118 | Probability Distribution of Dependencies Based on a Chinese Dependency Treebank. Journal of Quantitative Linguistics, 2009, 16, 256-273. | 1.2 | 41 |
| 119 | Chinese Syntactic and Typological Properties Based on Dependency Syntactic Treebanks. Poznan Studies in Contemporary Linguistics, 2009, 45, . | 0.3 | 22 |
| 120 | Inverse dynamics and servomotor parameter estimation of a 2-DOF spherical parallel mechanism. Science in China Series D: Earth Sciences, 2008, 51, 288-301. | 0.9 | 9 |
| 121 | The complexity of Chinese syntactic dependency networks. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 3048-3058. | 2.6 | 73 |
| 122 | What role does syntax play in a language network?. Europhysics Letters, 2008, 83, 18002. | 2.0 | 37 |
| 123 | Kinematic Design of a 5-DOF Hybrid Robot with Large Workspace/Limbâ€“Stroke Ratio. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 530-537. | 2.9 | 57 |
| 124 | Kinematic design of 5-DOF hybrid robot with large workspace/limb-stroke ratio. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2007, 43, 14. | 0.5 | 11 |
| 125 | Entropy in Different Text Types. Digital Scholarship in the Humanities, 0, , fqw008. | 0.7 | 7 |
| 126 | Word Length Distribution in Zhuang Language. Journal of Quantitative Linguistics, 0, , 1-28. | 1.2 | 4 |

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|---|---|---|---|
| 127 | Clustering highâ€frequency financial time series based on information theory. Applied Stochastic Models in Business and Industry, 0, , . | 1.5 | 4 |