

# Gang Luo

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,231  
citations

567144

15  
h-index

477173

29  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1166  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Performance of a Computational Phenotyping Algorithm for Sarcoidosis Using Diagnostic Codes in Electronic Medical Records: Case Validation Study From 2 Veterans Affairs Medical Centers. JMIR Formative Research, 2022, 6, e31615.   | 0.7 | 1         |
| 2  | Developing a Machine Learning Model to Predict Severe Chronic Obstructive Pulmonary Disease Exacerbations: Retrospective Cohort Study. Journal of Medical Internet Research, 2022, 24, e28953.  | 2.1 | 10        |
| 3  | Automatically Explaining Machine Learning Predictions on Severe Chronic Obstructive Pulmonary Disease Exacerbations: Retrospective Cohort Study. JMIR Medical Informatics, 2022, 10, e33043.  | 1.3 | 2         |
| 4  | A Roadmap for Boosting Model Generalizability for Predicting Hospital Encounters for Asthma. JMIR Medical Informatics, 2022, 10, e33044.  | 1.3 | 1         |
| 5  | Deep Learning Classification of Spinal Osteoporotic Compression Fractures on Radiographs using an Adaptation of the Genant Semiquantitative Criteria. Academic Radiology, 2022, 29, 1819-1832.  | 1.3 | 7         |
| 6  | Improving the Accuracy of Progress Indication for Constructing Deep Learning Models. IEEE Access, 2022, 10, 63754-63781.  | 2.6 | 3         |
| 7  | Error and Timeliness Analysis for Using Machine Learning to Predict Asthma Hospital Visits: Retrospective Cohort Study. JMIR Medical Informatics, 2022, 10, e38220.   | 1.3 | 0         |
| 8  | Predicting Persistent Disabling Low Back Pain in Veterans Affairs Primary Care Using the <sc>STarT</sc> Back Tool. PM and R, 2021, 13, 241-249.   | 0.9 | 10        |
| 9  | Parameter Sensitivity Analysis for the Progressive Sampling-Based Bayesian Optimization Method for Automated Machine Learning Model Selection. Lecture Notes in Computer Science, 2021, 12633, 213-227.                               | 1.0 | 1         |
| 10 | Forecasting Future Asthma Hospital Encounters of Patients With Asthma in an Academic Health Care System: Predictive Model Development and Secondary Analysis Study. Journal of Medical Internet Research, 2021, 23, e22796.           | 2.1 | 18        |
| 11 | Generalizability of an Automatic Explanation Method for Machine Learning Prediction Results on Asthma-Related Hospital Visits in Patients With Asthma: Quantitative Analysis. Journal of Medical Internet Research, 2021, 23, e24153. | 2.1 | 5         |
| 12 | A Roadmap for Automating Lineage Tracing to Aid Automatically Explaining Machine Learning Predictions for Clinical Decision Support. JMIR Medical Informatics, 2021, 9, e27778.   | 1.3 | 2         |
| 13 | Using Computational Methods to Improve Integrated Disease Management for Asthma and Chronic Obstructive Pulmonary Disease: Protocol for a Secondary Analysis. JMIR Research Protocols, 2021, 10, e27065.                              | 0.5 | 0         |
| 14 | Ranking Rule-Based Automatic Explanations for Machine Learning Predictions on Asthma Hospital Encounters in Patients With Asthma: Retrospective Cohort Study. JMIR Medical Informatics, 2021, 9, e28287.                              | 1.3 | 4         |
| 15 | Using a Constraint-Based Method to Identify Chronic Disease Patients Who Are Apt to Obtain Care Mostly Within a Given Health Care System: Retrospective Cohort Study. JMIR Formative Research, 2021, 5, e26314.                       | 0.7 | 2         |
| 16 | The doctor will see you now: How machine learning and artificial intelligence can extend our understanding and treatment of asthma. Journal of Allergy and Clinical Immunology, 2020, 145, 476-478.                                   | 1.5 | 26        |
| 17 | DicomAnnotator: a Configurable Open-Source Software Program for Efficient DICOM Image Annotation. Journal of Digital Imaging, 2020, 33, 1514-1526.  | 1.6 | 8         |
| 18 | Testing the Generalizability of an Automated Method for Explaining Machine Learning Predictions on Asthma Patients's Asthma Hospital Visits to an Academic Healthcare System. IEEE Access, 2020, 8, 195971-195979.                    | 2.6 | 20        |

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|----|---|-----|-----------|
| 19 | Progress Indication for Deep Learning Model Training: A Feasibility Demonstration. IEEE Access, 2020, 8, 79811-79843.   | 2.6 | 7         |
| 20 | Developing a Model to Predict Hospital Encounters for Asthma in Asthmatic Patients: Secondary Analysis. JMIR Medical Informatics, 2020, 8, e16080.  | 1.3 | 39        |
| 21 | Automatically Explaining Machine Learning Prediction Results on Asthma Hospital Visits in Patients With Asthma: Secondary Analysis. JMIR Medical Informatics, 2020, 8, e21965.  | 1.3 | 14        |
| 22 | Developing a Predictive Model for Asthma-Related Hospital Encounters in Patients With Asthma in a Large, Integrated Health Care System: Secondary Analysis. JMIR Medical Informatics, 2020, 8, e22689.                          | 1.3 | 19        |
| 23 | Guest editorial: special issue on data management and analytics for healthcare. Distributed and Parallel Databases, 2019, 37, 233-234.  | 1.0 | 0         |
| 24 | A roadmap for semi-automatically extracting predictive and clinically meaningful temporal features from medical data for predictive modeling. Global Transitions, 2019, 1, 61-82.   | 1.6 | 21        |
| 25 | Predicting Appropriate Hospital Admission of Emergency Department Patients with Bronchiolitis: Secondary Analysis. JMIR Medical Informatics, 2019, 7, e12591.   | 1.3 | 8         |
| 26 | Using Temporal Features to Provide Data-Driven Clinical Early Warnings for Chronic Obstructive Pulmonary Disease and Asthma Care Management: Protocol for a Secondary Analysis. JMIR Research Protocols, 2019, 8, e13783.       | 0.5 | 15        |
| 27 | Anticipation in Medicine and Healthcare: Implications for Improving Safety and Quality. , 2019, , 1249-1268.  |     | 0         |
| 28 | Failure to confirm high blood pressures in pediatric care—quantifying the risks of misclassification. Journal of Clinical Hypertension, 2018, 20, 174-182.  | 1.0 | 37        |
| 29 | Appropriateness of Hospital Admission for Emergency Department Patients with Bronchiolitis: Secondary Analysis. JMIR Medical Informatics, 2018, 6, e10498.  | 1.3 | 7         |
| 30 | Identifying Patients Who Are Likely to Receive Most of Their Care From a Specific Health Care System: Demonstration via Secondary Analysis. JMIR Medical Informatics, 2018, 6, e12241.  | 1.3 | 12        |
| 31 | Progress Indication for Machine Learning Model Building. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2018, 20, 1-12.  | 3.2 | 5         |
| 32 | Progressive sampling-based Bayesian optimization for efficient and automatic machine learning model selection. Health Information Science and Systems, 2017, 5, 2.  | 3.4 | 57        |
| 33 | Automatic identification of high impact articles in PubMed to support clinical decision making. Journal of Biomedical Informatics, 2017, 73, 95-103.  | 2.5 | 11        |
| 34 | Toward a Progress Indicator for Machine Learning Model Building and Data Mining Algorithm Execution. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2017, 19, 13-24. | 3.2 | 15        |
| 35 | A Roadmap for Optimizing Asthma Care Management via Computational Approaches. JMIR Medical Informatics, 2017, 5, e32.   | 1.3 | 15        |
| 36 | Automating Construction of Machine Learning Models With Clinical Big Data: Proposal Rationale and Methods. JMIR Research Protocols, 2017, 6, e175.  | 0.5 | 38        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Anticipation in Medicine and Healthcare: Implications for Improving Safety and Quality. , 2017, , 1-21.   |     | 0         |
| 38 | General Symptom Extraction from VA Electronic Medical Notes. Studies in Health Technology and Informatics, 2017, 245, 356-360.  | 0.2 | 10        |
| 39 | PredicT-ML: a tool for automating machine learning model building with big clinical data. Health Information Science and Systems, 2016, 4, 5.                                       | 3.4 | 33        |
| 40 | A review of automatic selection methods for machine learning algorithms and hyper-parameter values. Network Modeling Analysis in Health Informatics and Bioinformatics, 2016, 5, 1. | 1.2 | 196       |
| 41 | Automatically explaining machine learning prediction results: a demonstration on type 2 diabetes risk prediction. Health Information Science and Systems, 2016, 4, 2.               | 3.4 | 78        |
| 42 | Efficient Execution Methods of Pivoting for Bulk Extraction of Entity-Attribute-Value-Modeled Data. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 644-654.           | 3.9 | 11        |
| 43 | Predicting Appropriate Admission of Bronchiolitis Patients in the Emergency Department: Rationale and Methods. JMIR Research Protocols, 2016, 5, e41.                               | 0.5 | 13        |
| 44 | A systematic review of predictive models for asthma development in children. BMC Medical Informatics and Decision Making, 2015, 15, 99.   | 1.5 | 54        |
| 45 | Predicting asthma control deterioration in children. BMC Medical Informatics and Decision Making, 2015, 15, 84.   | 1.5 | 39        |
| 46 | MLBCD: a machine learning tool for big clinical data. Health Information Science and Systems, 2015, 3, 3.   | 3.4 | 27        |
| 47 | Using Computational Approaches to Improve Risk-Stratified Patient Management: Rationale and Methods. JMIR Research Protocols, 2015, 4, e128.  | 0.5 | 22        |
| 48 | A Roadmap for Designing a Personalized Search Tool for Individual Healthcare Providers. Journal of Medical Systems, 2014, 38, 6.  | 2.2 | 16        |
| 49 | A systematic review of predictive modeling for bronchiolitis. International Journal of Medical Informatics, 2014, 83, 691-714.  | 1.6 | 34        |
| 50 | Open Issues in Intelligent Personal Health Record “ An Updated Status Report for 2012. Journal of Medical Systems, 2013, 37, 9943.  | 2.2 | 9         |
| 51 | Triggers and Monitoring in Intelligent Personal Health Record. Journal of Medical Systems, 2012, 36, 2993-3009.   | 2.2 | 11        |
| 52 | Intelligent Personal Health Record: Experience and Open Issues. Journal of Medical Systems, 2012, 36, 2111-2128.  | 2.2 | 24        |
| 53 | Automatic Home Medical Product Recommendation. Journal of Medical Systems, 2012, 36, 383-398.   | 2.2 | 19        |
| 54 | Navigation Interface for Recommending Home Medical Products. Journal of Medical Systems, 2012, 36, 699-705.   | 2.2 | 3         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Lessons learned from building the iMED intelligent medical search engine. , 2009, 2009, 5138-42.            |     | 6         |
| 56 | Automatic home nursing activity recommendation. AMIA ... Annual Symposium proceedings, 2009, 2009, 401-5.   | 0.2 | 5         |
| 57 | MedSearch. , 2008, , .  |     | 58        |
| 58 | Toward a progress indicator for program compilation. Software - Practice and Experience, 2007, 37, 909-933. | 2.5 | 6         |
| 59 | Multi-query SQL Progress Indicators. Lecture Notes in Computer Science, 2006, , 921-941.                    | 1.0 | 30        |
| 60 | Toward a progress indicator for database queries. , 2004, , .   |     | 68        |
| 61 | Increasing the Accuracy and Coverage of SQL Progress Indicators. , 0, , .                                   |     | 18        |