# Academic Research Publications (2026)

| First Author Name | Co-Authors | Research Title | Publication Date | Journal Name | Journal ISSN | Journal Classification |
|---|---|---|---|---|---|---|
| Mahmood M Taher | Talal Abd Al-Razzaq Saead Al-Hasso<br>Taha Hussein Ali | Comparative Evaluation of Classical Robust and Wavelet Enhanced Beta Regression Models for Proportional Data | 01/01/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Shaimaa Waleed Mahmood | Zakariya Yahya Algamal | Kernel ridge regression improving based on golden eagle optimization algorithm for multi-class classification | 01/01/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Raya Salem Mohammed Ali | Haifa Abdul-Jawad Saieed<br>Safwan Nazim Rashid<br>Heyam Abdulmajeed Hayawi | Alpha Power Families of Distributions Article Review | 13/01/2026 | Iraqi Statisticians Journal | 3007-1658 | Local |
| Zakariya Nafi Shehab | Zakariya Yahya Algamal<br>Raid Mahmood Faisal | Forecasting PM2.5 Daily Concentration in Baghdad, Iraq Based on Improving Random Forest Algorithm | 01/01/2026 | Iraqi National Journal of Earth Science | 2664-2816 | International |
| Omar Fawzi Salih Al-Rawi | Zakariya Yahya Algamal | Geospatial modeling of under-five mortality in Iraq based on geographic weighted regression model | 01/01/2026 | Network Modeling Analysis in Health Informatics and Bioinformatics | 2192-6670 | International |
| Dr. Ban Ghanim Omar | Dr. Khalida Ahmed Mohammed | An Overview of Panel Data Analysis in Statistical and Econometric Research : A Review | 18/01/2026 | Iraqi Statisticians Journal | 3007-1658 (Online) | Local |
| Talal Abd Al-Razzaq Saead Al-Hasso | Heyam A.A. Hayawi<br>Taha Hussein Ali | USING LINEAR WAVELETS IN ANALYZING THE GARCH MODEL WITH THE SIMULATION | 23/02/2026 | Pakistan Journal of Statistics | 1012-9367 | International |
| Shaimaa Waleed Mahmood | Zakariya Yahya Algamal | Improving medical data clustering based on combining density peaks clustering and secretary bird optimization algorithm | 11/02/2026 | International Journal of Data Science and Analytics | 2364-4168 | International |
| Noor Al-Huda Mahmood Thamer | Dr. Najlaa Saad Ibrahim | Using Fuzzy Logic to Forecast Transfer Function Models | 01/03/2026 | Journal of Administration and Economics | 2707-1359 | Local |
| Mahmood Mohammad Taher Younis | — | The use of fuzzy logic to improve the performance of the logistic regression model in predicting binary variables under uncertainty | 01/03/2026 | University of Kirkuk Journal For Administrative and Economic Science | 3079-3521 | Local |
| Marwan Saleh Jameel Al-Abbadi | Ziyad Yahya Ali Allawi<br>Rana Zaidan Al-Kawaz | Using the karush -kuhn-TUcher optimization method on a finite fuzzy markov chain | 25/03/2026 | Baghdad Science Journal | 2411-7986 | International |

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| | Sura Mohammed Jamal Al-Din Hussein | | | | | |
| Zeina Mudar Yahya | Farah Abdul-Ghani Younis<br>Dr. Zakariya Yahya Algamal | Dawoud–Kibria Estimator for the Cox Regression Mode | 13/03/2026 | Computational Journal of Mathematical and Statistical Sciences | 2974-3443 | International |
| Wissam Wa'ad Allah Saleem | — | Using The Biorthogonal Wavelet to Address the Problem Heterogeneity of Variance | 01/04/2026 | Statistics, Optimization & Information Computing | 2310-5070 | International |
| Husam Waleed Yaseen | Salwa Salahuddin Qasim<br>Zakariya Yahya Algamal | Bootstrap Liu Estimator for Almon Distributed Lag Model | 01/04/2026 | STATISTICS, OPTIMIZATION AND INFORMATION | 2310-5070 | International |
| Husam Waleed Yaseen | Taha Hussein Ali<br>Saif Ramzi Ahmed<br>Heyam A. A. Hayawi | The Impact of Wavelet-Based Denoising on Beta Regression Model Fit | 01/04/2026 | STATISTICS, OPTIMIZATION AND INFORMATION | 2310-5070 | International |
| Dr. Najlaa Saad Ibrahim | Israa Awni<br>Taha Hussein Ali | A Coiets-BasedWaveletDecompositionMethodfor Improving ParameterEstimationinCombined ARIMA–GARCH Models | 30/04/2026 | STATISTICS, OPTIMIZATION AND INFORMATION | 2310-5070 | International |
| Khalida Ahmed Mohammed | Ban Ghanim Al-Ani<br>Zaid Tariq Salih Al-Khalidi | Different methods to estimate reliability for Exponentiated Mukherjee--Islam distribution under type II censoring | 01/05/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 (online) | International |
| Rekan Abdulaziz Ahmed | Zakariya Yahya Algamal<br>Zakariya Nafi Shehab | Environmental Data Modeling of Different Locations in Iraq Based on the Ramos-Louzada Distribution and Its Extensions | 01/05/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Muzahem Al-Hashimi | Heyam Hayawi<br>Mohammed Qasim Yahya Alawjar | Bayesian Optimization for Enhanced Prediction of Earthquakes with Machine Learning Techniques | 01/05/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Dr. Muzahem Mohammed Yahya Al-Hashimi | — | Predicting Sunspot Numbers Based on Neutrosophic Time Series | 01/06/2026 | Statistics, Optimization & Information Computing | 2310-5070 | International |
| Hayla Anas Al-Omari | Dr. Najlaa Saad Ibrahim<br>Alaa Abdul-Sattar Dawood | Simulating the Interdependence Between Electricity Production and Water Release, Based on a Methodology that Combines Statistical Models and Artificial Intelligence | 01/06/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | — | International |
| Jihan Fakhre Salih | Mohammed A. Tashtoush<br>Taha Hussein Ali<br>Heyam A.A. Hayawi | Adaptive Robust EWMA Control Chart for Monitoring Mean Shifts under Contaminated and Heavy-Tailed Processes | 01/06/2026 | Iraqi Journal of Statistical Sciences | 2664-2956 | Local |
| Saif Ramzi Ahmed | Hutheyfa H. Taha<br>Heyam A. A. Hayawi | Employing A Wavelet To Predict Gold Prices Using Generalized Self-Regression Models Conditioned On Heterogeneity Of Variance | 01/07/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |

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| Rasool Ali Hussein | Muthanna Subhi Sulaiman | Intelligent and Bayesian Models for Estimating the Transition Probability Matrix of Markov chains: Applications to the Analysis of Sustainable Development Indicators | 01/07/2026 | Statistics, Optimization & Information Computing | 2310-5070 | International |
| Dr. Muzahem Mohammed Yahya Al-Hashimi | Mohammed Alawjar<br>Edrees M. Nori Mahmood<br>Heyam A. A. Hayawi | An Improved Robust Model for Parameter Estimation Using the Fuzzy Transform | 14/07/2026 | Pakistan Journal of Statistics | 1012-9367 | International |
| Najlaa Saad Ibrahim | Sura Mohammed Jamal Al-Din Hussein | Bayesian Methods in Statistics : A Review | 10/07/2026 | Iraqi Statisticians Journal | 3007-1658 | Local |
| Adhab Nawaf Mahmood | Najlaa Saad Ibrahim | Predicting the inflation rate in Iraq using multi-time series models ARIMAX with Daubechies Wavelet | 01/08/2026 | Statistics, Optimization & Information Computing | 2310-5070 | International |
| Zakariya Yahya Algamal | — | Comparative Analysis of Multicriteria Decision-Making Techniques for Optimal Wind Farm Site Selection | — | ANNALS OF THE AMERICAN ASSOCIATION OF GEOGRAPHERS | 111 | International |
| Zakariya Yahya Algamal | — | Enhancing gamma regression models through the integration of principal component regression and the Stein estimator | 01/01/2026 | International Journal of Modelling and Simulation | 222 | International |
| Osama Bashir Shaker Al-Hanoun | Suha Saleem Mahjoob<br>Muthanna Subhi Sulaiman<br>Adel Sufyan Hussain<br>Mohammed Abdullah Tashtoush | Using Classification Tree and Kernel Approaches for Classifying the Relative Humidity Dataset | 28/02/2026 | Mathematical Modelling of Engineering Problems | 2369-0747 | International |
| Zakariya Yahya Algamal | — | Variable Selection in Kernel Ridge Regression based on Sparrow Search Algorithm with Application QSAR Modeling | 01/03/2026 | Journal of Multidisciplinary Applied Natural Science | 111111 | International |
| Mahmood Mohammad Taher Younis | — | CONSTRUCTING REGRESSION MODEL USING PENALTY METHODS TO PROCESS HIGH-DIMENSIONAL DATA FOR A FACTORIAL EXPERIMENT | 30/03/2026 | Journal of Al-Qadisiyah for Computer Science and Mathematics | 2521-3504 | Local |
| Rekan Abdulaziz Ahmed | Zakariya Yahya Nouri<br>Liban Ali Mahmood | A Poisson-modified quasi-lindley regression approach for multicollinear data using Kibria–Lukman Estimator | 12/06/2026 | Scientific African | 2468-2276 | International |
| Israa Abduljawad Saleh | Nada Nazar Alobaidi<br>Zakariya Yahya Algamal | Linearized ridge estimator in Poisson-inverse Gaussian regression model | 01/08/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Adel Sufyan Hussain | Rekan Abdulaziz Ahmed<br>Shaimaa Waleed Mahmood<br>Mohammed Abdullah Tashtoush<br>Imad Abdul Al-Zoub'i | ENHANCED SOFTWARE RELIABILITY GROWTH MODELLING USING MODIFIED NEURAL NETWORKS AND CROW OPTIMIZATION FOR NHPP PARAMETER ESTIMATION | 12/08/2026 | REVISTA INVESTIGACION OPERACIONAL | 2224-5405 | International |

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| Zakariya Yahya Algamal | — | ADJUSTED EXPLAINED VARIATION MEASURE FOR ZERO-INFLATED POISSON REGRESSION MODEL | 01/01/2026 | TWMS J. App. and Eng. Math. | — | International |
| Zakariya Yahya Algamal | — | Improving parameters estimation of a truncated Poisson regression model based on meta-heuristic optimization algorithms | 04/02/2026 | Improving parameters estimation of a truncated Poisson regression model based on meta-heuristic optimization algorithms | — | International |
| Zakariya Yahya Algamal | — | Improving Set-union Knapsack Problem Based on Binary Spotted Hyena Optimization Algorithm | 01/03/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Zakariya Yahya Algamal | — | Solving 0-1 Knapsack Problem by an Improved Binary Monarch Butterfly Algorithm | 01/04/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Zakariya Yahya Algamal | — | A New Shrinkage Estimator for the Bell Regression Model | 01/04/2026 | Thailand Statistician | — | International |
| Zakariya Yahya Algamal | — | Improving SVR Horse Herd Optimization Algorithm for Forecasting Daily Gold Prices | 01/04/2026 | International Journal on Advanced Science, Engineering and Information Technology | 2088-5334 | International |
| Zakariya Yahya Algamal | — | Enhancing Surface Water Potability Assessment through a v-SVM Hybrid Statistical Learning Model | 01/06/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Zakariya Yahya Algamal | — | Improving Pelican Optimization Algorithm for Solving Integer and Mixed Integer Optimization Problems | 01/06/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Zakariya Yahya Algamal | — | Modern ridge-type estimator using the Poisson-Inverse Gaussian regression model | 21/05/2026 | AIP Conf. Proc. | — | International |
| Zakariya Yahya Algamal | — | Spatio-Temporal Assessment and Multivariate Statistical Analysis of Water Quality in the Great Zab River, Iraq | 06/06/2026 | Egyptian Journal of Aquatic Biology & Fisheries | 1110 – 6131 | International |
| Zakariya Yahya Algamal | — | Geographically Weighted Regression Analysis of Spatial Heterogeneity for Suicide Mortality | 01/07/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Zakariya Yahya Algamal | — | Linearized Ridge-Type Estimator for the Poisson Modification of the Quasi-Lindley Regression Model | 01/08/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Zakariya Yahya Algamal | — | Linearized ridge estimator in Poisson-inverse Gaussian regression model | 01/08/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Zakariya Yahya Algamal | — | Hybrid Interval Forecasting Model for Iraqi Stock Prices Based on Optimized v-Support Vector Regression | 01/08/2026 | Journal of Mathematics and Modeling in Finance | — | International |
| Zakariya Yahya Algamal | — | Enhancing Water Potability Classification Using a Hybrid Random Forest Algorithm | 06/08/2026 | Water Conservation Science and Engineering | — | International |

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| Zakariya Yahya Algamal | — | Modified cross-validation procedure in selection shrinkage parameter of Poisson ridge regression model | 01/09/2026 | STATISTICS, OPTIMIZATION AND INFORMATION COMPUTING | 2310-5070 | International |
| Sarbast Saeed Ismael | Najlaa Saad Ibrahim Taha Hussein Ali | A Computational Multiresolution Nonlinear Autoregressive Framework Based on Wavelet Decomposition and Support Vector Regression | 15/09/2026 | Computational and Mathematical Methods | 2577-7408 | International |