

# IJCSHAI

**International Journal  
of Computer Science  
and Humanitarian AI**

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## Description

International Journal of Computer Science and Humanitarian AI (IJCSHAI) is an international journal published biannually in February and October. IJCSHAI will *process accreditation* to Google Scholar, DOAJ, the Ministry of Research, Technology and Higher Education Republic of Indonesia (SINTA), and SCOPUS. The journal is managed by the Center of Excellence (CoE) in Humanitarian AI and Technology and School of Computer Science, Bina Nusantara University.

## Focus and Scope

IJCSHAI invites academicians and professionals to write their ideas, concepts, new theories, or science development in the field of Computer Science, Artificial Intelligence (AI), Fuzzy Systems, Expert Systems, Geo-AI, Machine Learning, Deep Learning, Humanitarian AI, Data Science, Computer Vision, Natural Language Processing (NLP), Information Systems, Psychoinformatics, Computational Intelligence, Recommender Systems, Robotics, Robot Vision and Control Systems.

## FOREWORD

We express our gratitude for publishing the first volume and issue of the International Journal of Computer Science and Humanitarian AI (IJCASHAI). The release of this edition Vol. 3 No. 1 February 2026 marks an essential step in disseminating the latest knowledge and research in computer science and the application of artificial intelligence for humanitarian purposes. In this edition, the authors present six research articles covering various exciting and relevant topics, including:

1. **Optimizing Stock Price Prediction Using CNN-LSTM Models for a Multi-Sector Holding Company**—This study shows that LSTM is the most accurate for stock price prediction, whilst CNN-LSTM is more robust across various data conditions due to the combination of sequential learning and feature extraction.
2. **Comparative Analysis of Decision Tree, Random Forest, and XGBoost for Student Category Prediction**—This study compares Decision Tree, Random Forest and XGBoost for predicting student categories using structured educational data; the results indicate that Random Forest is the best model (accuracy 0.8333) and provides a practical and lightweight machine learning approach for educational institutions.
3. **PoseTracker: Accuracy Evaluation of AI-Based Mobile Application for Exercise Posture Feedback**— This research developed a PoseTracker, an Android app based on HPE's MediaPipe, is capable of providing real-time feedback on exercise posture with 82–88% accuracy across various exercises, demonstrating the potential of lightweight AI to support safe self-directed training even when influenced by environmental factors.
4. **An End-to-End Architecture for Stock Market Prediction Integrating Mobile Application, Backend Services, and ML/DL Models**—This research bridges the gap between algorithmic accuracy and real-world implementation by designing an end-to-end mobile-based stock prediction system, which utilises a managed database, a backend API and in-memory caching to improve efficiency by up to ~94% compared to direct queries.
5. **Analyzing Public Sentiment Toward the Makan Bergizi Gratis (MBG) Program on TikTok Using SVM and IndoBERT**— This study analyses public sentiment towards the MBG programme through 11,730 TikTok comments by comparing SVM and IndoBERT, with IndoBERT demonstrating superior performance (accuracy and an F1-score of 0.78), making it more effective for analysing public policy sentiment on Indonesian social media.
6. **The Impact of Parameter Scaling: Analysis of Specific Large Language Model Capabilities**— This study compares the efficiency of various large language models (LLMs) based on parameter scaling and finds that models with larger parameters are not necessarily better; it also recommends several models that offer optimal performance and speed.

We hope this inaugural edition can make a meaningful contribution to the advancement of science, particularly in the fields of computer science and artificial intelligence. We extend our sincere thanks to everyone who contributed to the publication of this journal, especially the authors, editorial team, and peer reviewers. We hope the articles in this journal prove useful and serve as valuable references for researchers.

Jakarta, February 28<sup>th</sup>, 2026

**Prof. Dr. Ir. Widodo Budiharto, S.Si., M.Kom., IPM., SMIEEE**

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