Editorial

We present the last issue of this volume of the **Journal of Digital Information Management**, featuring the papers described below.

In the opening paper, "**Mitigating Intersectional Gender and Racial Bias in Sentiment Analysis: A T5-Based Data Augmentation Approach for English and Low-Resource Bengali,**" the author, using race labels, studied the intersectional bias in sentiment classification across gender and racial subgroups in English and Bengali datasets. The machine language models used in this paper are trained using Word2Vec. The author used a T5-based data augmentation strategy, which improved overall accuracy.

In the following paper, "Can AI Replace Human Peer Reviewers? A Comparative Analysis of AI-Generated and Human Expert Reviews," the authors compared the performance of AI-generated peer reviews and human expert reviews of scientific papers. They assessed 141 reviews using four LLMs and human reviews against 12 quality criteria, scored by five domain experts. They found that the AI reviews were more generic and less specific, struggled with scholarly evaluation. They conclude that AI cannot replace human reviewers but can supplement the review process.

In the last paper, "**Analyzing outage performance in a UAV-assisted backscatter system operating under realistic composite fading conditions,**" the authors studied the performance of a UAV-enabled backscatter communication system for low-power IoT networks. They derived an exact closed-form expression for the system's outage probability using the Meijer G-function, enabling efficient performance evaluation without extensive simulations. The results validated the analytical model and revealed critical insights, such as improvements in outage performance with higher Rician K-factors (indicating stronger LoS), and that an optimal time-switching ratio exists that minimises outages by balancing energy harvesting and data transmission durations.

We hope that this issue marks higher significance and validity in the content.

Editors