PREFACE

Dear readers,

We are delighted to present the second volume of the *Computer Science and Interdisciplinary Research Journal* (CSIR Journal). Following the warm reception of our inaugural issue, we are encouraged by the growing interest and engagement from researchers, practitioners, and readers who share our passion for the advancement of science and technology in an interdisciplinary context.

The second issue continues our mission to showcase high-quality scientific research and to promote dialogue between theory and practice in the field of computer science and its applications across various domains. The articles included in this issue reflect the diversity and relevance of current scientific exploration - from machine learning and data security to innovations in online services and financial cycle forecasting.

This issue features four articles that present innovative solutions and modern approaches in various areas of computer science. The first article introduces *flexmysqlbackup* – a flexible and efficient solution for creating backups of MySQL databases that effectively addresses real-world challenges in data management and recovery. The second contribution presents a hybrid model combining LSTM neural networks and Discrete Fourier Transform, aimed at improving the accuracy of forecasting cyclical movements in financial markets and supporting investment decisions. The third article offers a comparative analysis of key machine learning algorithms applied to classification tasks, evaluating their strengths and limitations across different data types. The final publication presents a classification model for innovations in online sports betting – a systematic approach to a rapidly growing and technology-driven industry.

We extend our sincere thanks to all the authors for their valuable contributions, as well as to the reviewers and the editorial team for their efforts in maintaining the high quality and scientific integrity of the publications. Your collaboration remains a key factor in the journal's success.

We remain committed to providing a platform for meaningful scientific exchange and an interdisciplinary perspective. We hope that this issue of *CSIR Journal* will serve as a source of knowledge, inspiration, and support in your academic and professional endeavors.

Enjoy reading!

EDITORS-IN-CHIEF:

Prof. Asya Stoyanova-Doycheva, Ph.D.
Section COMPUTER SCIENCE

Assoc. Prof. Mariyan Milev, Ph.D.
Section MATHEMATICS

Prof. Todorka Glushkova, Ph.D.
Section EDUCATION

Prof. Stanka Hadzhikoleva, Ph.D.
Section INTERDISCIPLINARY RESEARCH