Preface: modern data science technologies workshop

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Abstract
This document is the preface of the 6th International Workshop on Modern Data Science Technologies (MoDaST-2024), May, 31 - June, 1, 2024, held in Lviv-Shatsk, Ukraine. The main purpose of the MoDaST Workshop is providing a forum for researchers to discuss models, methods and information technology for data science, data analysis and business analysis, and their real-life applications.

Keywords
data science, big data, machine learning, data analysis, information technology, system

1. Introduction

The main purpose of the Modern Data Science Technologies Workshop is providing a forum for researchers to discuss models, methods and information technology for data science, data analysis and business analysis, and their real-life applications [1-5]. In MoDaST Workshop, we encourage the submission of papers on machine learning, deep learning, decision making, and multicriteria decision analysis areas. The MoDaST Workshop is soliciting literature review, survey and research papers comments including, whilst not limited to, the following areas of interest:

- Analytical methods;
- Ontological engineering;
- Business analysis of information processes;

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- Big data analysis;
- Analytical data warehouses;
- Cloud services;
- Repositories and data spaces;
- Data consolidation technologies;
- Computer linguistics;
- Machine Learning Applications;
- Recommendation system with collaborative filtering;
- Natural Language Processing;
- Data Visualization;
- Data Acquisition and Wrangling;
- Machine Learning;
- Clustering;
- Neural Networks;
- Classification algorithms;
- Regression algorithms;
- Training (weight optimization) using backpropagation;
- Gradient descent;
- Setting the learning rate of your neural network;
- Deep neural networks;
- Batch normalization;
- Convolutional neural networks;
- Image segmentation;
- Object detection (YOLO, SSD, Faster R-CNN);
- Evaluating object detection models;
- Facial recognition;
- Recurrent neural networks;
- Transformer networks;
- Siamese networks;
- Reinforcement Learning.

The language of Modern Data Science Technologies Workshop is English.

The Modern Data Science Technologies Workshop took the form of oral presentation by peer-reviewed individual papers. The papers were distributed among 32 external reviewers from The Netherlands, Finland, Germany, France, United Kingdom, China, Austria, Czech Republic, Portugal, India, Poland, Ukraine and Ukraine.

The Modern Data Science Technologies Workshop gathered participants from different countries including Germany, Algeria, The Netherlands, Finland, Poland, and Ukraine.

This year Organizing Committee received 55 submissions, out of which 27 were accepted for presentation as a regular paper. These papers and extended abstracts were published in this Volume II of the 6th International Workshop on Modern Data Science Technologies (MoDaST 2024) proceedings.

2. Acknowledgments

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