

Editorial

The first issue of the twelfth volume of JIDM brings a section with extended and revised versions of the best papers from the VIII Symposium on Knowledge Discovery, Mining and Learning – KDMiLe, an online event co-organized with the 9th Brazilian Conference on Intelligent Systems (BRACIS), held in Fortaleza, during 20-23 October 2020. Moacir Antonelli Ponti served as the guest editor of KDMiLe 2020. He was in charge of selecting the best papers from the symposium and conducting the evaluation process.

Section KDMiLe 2020 includes extended and revised versions of six select papers from the symposium. KDMiLe is a series of annual scientific meetings aimed at integrating researchers, practitioners, developers and users, to present research results, discuss ideas and practical experiences on Data Mining and Machine Learning. Most contributions to KDMiLe are related to data and information management, including data preparation, feature extraction and selection, knowledge discovery via machine learning and data mining methods, as well as data-driven machine intelligence.

In order to improve credit scoring, "Analysis of Distinct Feature Groups in the Credit Scoring Problem" uses a machine learning approach to study unusual features such as historic data, geolocation, web behavior, and demographic data. Another paper, "Using Car to Infrastructure Communication to Accelerate Learning in Route Choice" shows that using reinforcement learning showing with communication is a good choice.

Two papers devote efforts to text mining and analysis, the first "Automated classification of cardiology diagnoses based on textual medical reports" shows a successful application of natural language processing methods in order to screen medical reports, while "Assessing the combination of DistilBERT news representations and diffusion topological features to classify fake news" shows how combination of features may benefit such application.

After the year of 2018, in which Brazil had a disputed and polarized general election, the subject of fake news became relevant, but also notable the role of specific regions in such elections. In the paper "Analysing Spatio-Temporal Voting Patterns in Brazilian Elections Through a Simple Data Science Pipeline", the authors showed spatial dependency of votes by investigate relationship of neighbouring cities.

Last, but not least, the paper that was revised and extended from the Best Paper Award of KDMiLe 2020, "The effect of political polarization on social distance stances in the Brazilian COVID-19 scenario" investigates the influence of politics on peoples opinion related to the coronavirus pandemic, showing characteristics of the polarized groups "Cloroquiners" and "Quarenteners" with interesting insights such as Cloroquiner group having a stronger connection, and that such polarized groups come together on negative emotions.

We would like to thank all authors who contributed to this edition of JIDM, and the editorial committee invited especially for this issue, which helped reviewing and thus improving the submitted papers. We hope you enjoy this issue of JIDM!

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