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Ashokkumar Patel
Nishtha Kesswani
Madhusudhan Mishra
Preetisudha Meher *Editors*

Advances in Machine Learning and Big Data Analytics I

ICMLBDA 2023, NIT Arunachal Pradesh, India, May 29-30

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Automated Reviewer Assignment Process Using Machine Learning Technique

Sovan Bhattacharya, Arkaprava Mazumder, Ayan Banerjee, Chandan Bandyopadhyay, and Subrata Nandi

Abstract The development of technology has surged people's curiosity about new technology, thus improving research works. This led to an increase in the number of article submissions. Hence, an already difficult task gets more difficult with an increased workload. This chapter implements an automated reviewer assignment on top of machine learning techniques. Here we collect ICBIM 2016 (http://icbim2016.nitdgp.ac.in/) conference data along with the corresponding data required. Five machine learning techniques have been applied over the collected data set, among which logistic regression and support vector machine (SVM) perform better. Lastly, it is compared with the "automated conflict of interest-based greedy approach" over the same data set, and the model is improved by 8%.

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