TITLE OF DIPLOMA THESIS

Bibliometric Analysis on Cost-Benefit Analysis of Motorway Projects over the last three decades using VosViewer and RapidMiner.

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ABSTRACT

The field of Engineering Science is a branch that has evolved from the past to the present day and is developing at many levels in people's daily lives. New researches, experiments, tests and technologies are coming and expanding daily the field of research and the information is multiplying at a dizzying rate. Even the most consistent researcher is unable to read and remember all this information as the sources are too many and scattered in online scientific articles, scientific journals, books, articles and many other places. Thus, in order to avoid missing out on the enormous amount of available information in a research in a particular discipline, we carry out a bibliographic review. With this bibliographic overview, we substantially restrict our field of research to the information we want to enter and 'extract' for our research. Nowadays even the field of bibliographic review itself has evolved with the help of technology and the use of special "mining" programs or otherwise text mining. With the help of these programs by introducing specific keywords that are inextricably linked to our research we can access important information related to the subject of our study while saving a significant amount of time that would be spent in searching for these sources and their analysis. In our case we will apply this technology of bibliographic review through VOSviewer and RapidMiner programs in the field of road works. In particular, we will search for the factors and their interdependencies that are important for the feasibility study of a road project that constitutes Cost - Benefit Analysis (CBA) of motorway projects over the last three decades, namely from 1990-2000.

KEYWORDS

Cost-benefit analysis, motorway projects, bibliographic review, scientometric analysis, VosViewer, Rapid Miner.