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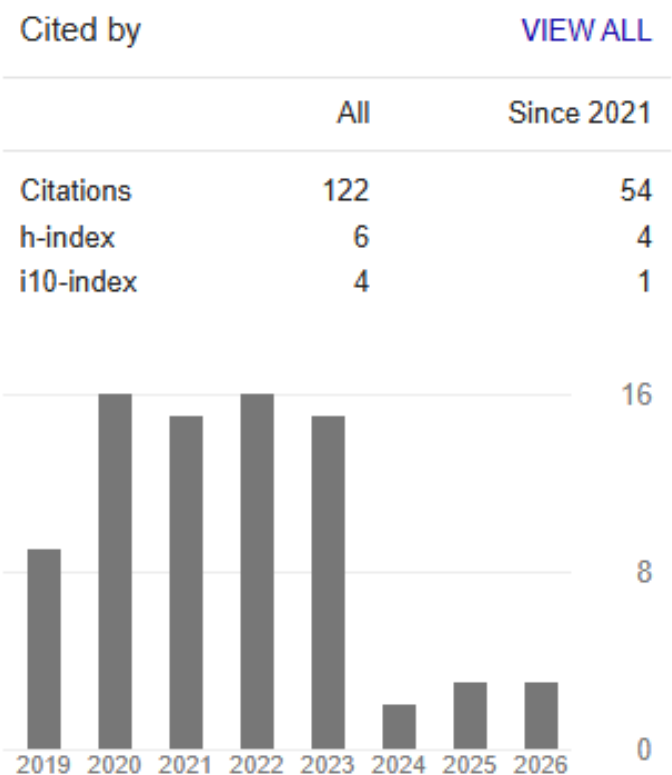
International Journal of Computer-Aided Technologies (IJCAx)

ISSN:2349-218X

<https://airccse.org/journal/ijcax/index.html>

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TEACHER'S ATTITUDE TOWARDS UTILISING FUTURE GADGETS IN EDUCATION

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ABSTRACT

Today's era is an era of modernization and globalization. Everything is happening at a very fast rate whether it is politics, societal reforms, commercialization, transportation, or educational innovations. In every few seconds, technology grows either in the form of arrival of the new devices/gadgets with millions of apps and these latest technological objects may be in the form of hardware/software devices. We are the educationists, teachers, students and stakeholders of present Indian educational system. These gadgets/devices are partly being used by us or most of them are still unaware of these innovative technologies due to the mass media or economical factor. So, there is a need to improvise ourselves towards utilizing the future gadgets in order to explore the educational uses, barriers and preparatory needs of these available devices for educational purposes. This paper aims to study the opinion of the teacher-educators about the usage of future gadgets in higher education. It will also contribute towards establishing the list of latest technological devices, and how it can enhance the process of teaching learning system.

KEYWORDS

Futurology, Future Gadgets, Technological devices, Educational Technology.

For More Details: <https://airconline.com/ijcax/V2N4/2415ijcax01.pdf>

Volume Link: <https://airccse.org/journal/ijcax/vol2.html>

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THE STUDY OF CUCKOO OPTIMIZATIONAL ALGORITHM FOR PRODUCTION PLANNING PROBLEM

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ABSTRACT

Constrained Nonlinear programming problems are hard problems, and one of the most widely used and common problems for production planning problem to optimize. In this study, one of the mathematical models of production planning is surveyed and the problems solved by cuckoo algorithm. Cuckoo Algorithm is efficient method to solve continuous nonlinear problem. Moreover, mentioned models of production planning solved with Genetic algorithm and Lingo software and the results will be compared. The Cuckoo Algorithm is a suitable choice for optimization in convergence of solution. .

KEYWORDS

Meta-heuristic algorithms, Cuckoo Optimization Algorithm, Lot Sizing, Production Planning.

For More Details : <https://airccse.org/journal/ijcax/papers/2315ijcax01.pdf>

Volume Link: <https://airccse.org/journal/ijcax/vol2.html>

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DECISION TREE ALGORITHM IMPLEMENTATION USING EDUCATIONAL DATA

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ABSTRACT

There are different decision tree based algorithms in data mining tools. These algorithms are used for classification of data objects and used for decision making purpose. This study determines the decision tree based ID3 algorithm and its implementation with student data example.

KEYWORDS

Decision tree, ID3 algorithm, Entropy and Information Gain.

For More Details: <https://airccse.org/journal/ijcax/papers/1114ijcax04.pdf>

Volume Link: <https://airccse.org/journal/ijcax/vol1.html>

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RESEARCH TRENDS IN EDUCATIONAL TECHNOLOGY IN TURKEY: 2010-2018 YEAR THESIS AND META-ANALYSIS OF ARTICLES

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ABSTRACT

The purpose of this research is the analysis using meta-analysis of studies in the field of Educational Technology in Turkey and in the field is to demonstrate how to get to that trend. For this purpose, a total of 263 studies were analyzed including 98 theses and 165 articles published between 2010-2018. Purpose sampling method was used when selecting publications. In the research, while selecting articles and theses; Turkey addressed; YOK Tez Tarama Database, Journal of Hacettepe University Faculty of Education, Educational Sciences: Theory & Practice Journal, Education and Science Journal, Elementary Education Online Journal, The Turkish Online Journal of Education and The Turkish Online Journal of Educational Technology used in journals. Publications have been reviewed under 11 criteria. Index, year of publication, research scope, method, education level, sample, number of samples, data collection methods, analysis techniques, and research tendency, research topics in Educational Technology Research in Turkey has revealed. The data is interpreted based on percentage and frequency and the results are shown using the table

KEYWORDS

Educational Technologies, Research Trends, Meta Analysis, Publication Classification.

For More Details: <https://aircconline.com/ijcax/V6N2/6219ijcax01.pdf>

Volume Link: <https://airccse.org/journal/ijcax/vol6.html>

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IDENTIFY NAVIGATIONAL PATTERNS OF WEB USERS

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ABSTRACT

RapidMiner is a software for machine learning, data mining, predictive analytics, and business analytics. The server will record large web log files when user visits the website. Extracting knowledge from such huge data demands for new methods. In this paper, we propose a web usage mining method with RapidMiner. At first, the redundant files in log file are deleted by Matlab and then we mine web log which has been pretreated with RapidMiner, it obtains the custom of different user to visit the website by processing and analyzing log file, and mines unusual rules, and provides the reference for the policy decision and construction of website. Experimental result analysis shows that, applying RapidMiner in web usage mining, will obtain frequent model which user visits the website, manage to optimize the website structure and recommends for user.

KEYWORDS

Web Usage Mining, RapidMiner, Association Rule Mining, Web Log Analysis.

For More Details: <https://airccse.org/journal/ijcax/papers/1114ijcax01.pdf>

Volume Link: <https://airccse.org/journal/ijcax/vol1.html>

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RESEARCH ISSUES IN WEB MINING

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ABSTRACT

Web is a collection of inter-related files on one or more web servers while web mining means extracting valuable information from web databases. Web mining is one of the data mining domains where data mining techniques are used for extracting information from the web servers. The web data includes web pages, web links, objects on the web and web logs. Web mining is used to understand the customer behaviour, evaluate a particular website based on the information which is stored in web log files. Web mining is evaluated by using data mining techniques, namely classification, clustering, and association rules. It has some beneficial areas or applications such as Electronic commerce, E-learning, E-government, E-policies, E-democracy, Electronic business, security, crime investigation and digital library. Retrieving the required web page from the web efficiently and effectively becomes a challenging task because web is made up of unstructured data, which delivers the large amount of information and increase the complexity of dealing information from different web service providers. The collection of information becomes very hard to find, extract, filter or evaluate the relevant information for the users. In this paper, we have studied the basic concepts of web mining, classification, processes and issues. In addition to this, this paper also analyzed the web mining research challenges.

KEYWORDS

Web Mining, Classification, Application, Tools, Algorithms, Research Issues.

For More Details: <https://airccse.org/journal/ijcax/papers/2315ijcax05.pdf>

Volume Link: <https://airccse.org/journal/ijcax/vol2.html>

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ON FUZZY SOFT MULTI SET AND ITS APPLICATION IN INFORMATION SYSTEMS

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ABSTRACT

Research on information and communication technologies have been developed rapidly since it can be applied easily to several areas like computer science, medical science, economics, environments, engineering, among other. Applications of soft set theory, especially in information systems have been found paramount importance. Recently, Mukherjee and Das defined some new operations in fuzzy soft multi set theory and show that the De-Morgan's type of results hold in fuzzy soft multi set theory with respect to these newly defined operations. In this paper, we extend their work and study some more basic properties of their defined operations. Also, we define some basic supporting tools in information system and application of fuzzy soft multi sets in information system are represented and discussed. Here we define the notion of fuzzy multi-valued information system in fuzzy soft multi set theory and show that every fuzzy soft multi set is a fuzzy multi valued information system

KEYWORDS

Soft set, fuzzy set, soft multi set, fuzzy soft multi set, information system.

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Volume Link: <https://airccse.org/journal/ijcax/vol2.html>

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Survey on Content Based Image Retrieval

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ABSTRACT

Invention of digital technology has led to an increase in the number of images that can be stored in digital format. So searching and retrieving images in large image databases has become more challenging. From the last few years, Content Based Image Retrieval (CBIR) gained increasing attention from researchers. CBIR is a system which uses visual features of an image to search for a user required image from a large image database and user's requests in the form of a query image. Important features of images are colour, texture and shape which give detailed information about the image. CBIR techniques using different feature extraction techniques are discussed in this paper.

KEYWORDS

CBIR; colour feature; texture feature; shape feature.

For More Details: <https://airccse.org/journal/ijcax/papers/1114ijcax03.pdf>

Volume Link: <https://airccse.org/journal/ijcax/vol1.html>

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INTEGRATED INERTER DESIGN AND APPLICATION TO OPTIMAL VEHICLE SUSPENSION SYSTEM

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ABSTRACT

The formula cars need high tire grip on racing challenge by reducing rolling displacement at corner or double change lands. In this case study, the paper clarifies some issues related to suspension system with inerter to reduce displacement and rolling angle under impact from road disturbance on Formula SAE Car. We propose some new designs, which have an advance for suspension system by improving dynamics. We optimize design of model based on the minimization of cost functions for roll dynamics, by reducing the displacement transfer and the energy consumed by the inerter. Based on a passive suspension model that we carried out quarter-car and half-car model for different parameters which show the benefit of the inerter. The important advantage of the proposed solution is its integration a new mechanism, the inerter, this system can increase advance in development and have effects on the vehicle dynamics in stability vehicle.

KEYWORDS

Inerter, Suspension System, Optimal, Formula SAE, Rolling.

For More Details : <https://airccse.org/journal/ijcax/papers/1314ijcax01.pdf>

Volume Link: <https://airccse.org/journal/ijcax/vol1.html>

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