

Editorial Preface

Special Issue on Computer Science and Technology “CST”

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Computer Science and Technology issue aim to keep researchers updated on the developments in a wide range of topics reporting experiments, techniques and ideas that advance the understanding of various areas of computer science: computer architecture and systems, artificial intelligence, computer networks and distributed computing, software systems, software engineering, data management and data mining, theory and algorithms, emerging areas, and more.

This special issue presents a collection of research papers that report the latest research advances in the field of Computer Science.

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In this regard, the first article presents a mechanism to provide privacy to the mined results by assuming that the data is distributed across many nodes is presented. The proposed protocol involves pairings operation whose computation is computationally slower than modular exponentiation. This protocol can use with small and large cluster with two or more cluster members. Further, the computation and communication cost of the proposed method was presented. Finally, comparative analysis was done with some of the existing methods. This work can be extended to various applications in medical, statistical and in IOT research areas.

In the second article, the authors present an unsupervised Entity resolution framework that supports English and Arabic data sets. The proposed Framework operates in two steps:

1. Training set is automatically generated based on the scores computed by several similarity measures to support different errors types.
2. The generated training set is used to train a classifier and learn a classification model that is used to classify unlabeled weight vectors.

The third article treat the problem of Plagiarism Detection in Marathi Language. To detect semantic plagiarism in Marathi languages, the authors have applied preprocessing on database, i.e., tokenization, removal of stop words and punctuations, to calculate frequency of words. Then searching the same word or synonyms of words in wordnet and detect the semantic plagiarism

The fourth article presents a work that meets the need for ontology authoring and instances generation, in order to develop semantic Web applications. The proposed approach starts with a

reverse engineering process that aims to recover class diagram from the web application source code by using a pattern matching technique. Then, a forward engineering process creates an OWL ontology from the recovered class diagram by applying a set of mapping rules.

In the fifth article, to optimize the performance in cloud computing, the authors proposed a combination of scheduling and data replication. Tasks scheduling and data replication algorithms are the main methods of optimization in the cloud. In contrast, simulating a job scheduling and data replication algorithms separately do not lead to better results. Else, if the user configures his work according to the effectiveness of the scheduling and replication as a single unit integrated metrics, the results give better performance.

The last article proposes a new approach for personalizing OLAP analysis in a Big Data context by using context and user profile. This proposed approach is based on five complementary layers namely: Extern layer, layer for the formulation of the contexts defined in our system, profiling and querying layer and layer for the construction of personalized OLAP cubes and a final one for multidimensional analysis cubes. T

CONCLUSION

Computer science is currently highly recommended in different areas as a main tool to do such daily tasks: queries go far enough: in addition to process speed and good memory, also requests that help us to make decisions, plan our day charge, abstract and translate our texts or detect opinion of the Customer of a product to improve the earnings of the company.

A collection of research papers that report the latest research advances in the field of Computer Science are covered by this special issue.

We hope to have more collaboration with each other since we need each other's help beyond time and space and across the boundaries of countries, cultures, and even generations.

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Guest Editors

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