Abstract

Traditionally, major focus in knowledge management has been on various techniques of representation of knowledge. In the current scenario the information is available is more often, in unstructured formats. Representation and storage of this information is posing new challenges. This paper introduces the initial approach to knowledge management and the problems faced during knowledge collection. It also describes the use of hypergraphs and NoSQL for knowledge representation and the way data can be stored as information. This paper describes a novel technique for representation of knowledge and also proposes storage solution for the unstructured information in an effective and flexible manner as compared to traditional way of knowledge representation.

References

1. Modelling Data with Hypergraphs, Szymon Klarmann, 2017
2. Artificial Intelligence Support of Knowledge Transformation in Knowledge Management
Novel Technique for Storing Knowledge using Hypergraphs and NoSQL

Systems, Tatiana V. Avdeenko, Ekaterina S. Makarova, Irina L. Klavsuts, 2016

3. The Artificial Intelligence in Personal Knowledge Management, Lixin Diao1, Mingzhang Zuo1, Qiang Liu1, 2009
4. https://grakn.ai/, available on 06/06/2018
5. https://dev.grakn.ai/academy/graql-intro.html, available on 06/06/2018
6. https://dev.grakn.ai/academy/get-queries.html, available on 06/06/2018
7. https://dev.grakn.ai/academy/insert-delete-queries.html, available on 06/06/2018
8. https://dev.grakn.ai/academy/schema-elements.html, available on 06/06/2018
10. https://dev.grakn.ai/academy/schema-building.html, available on 06/06/2018
11. https://dev.grakn.ai/academy/schema-building-continued.html, available on 06/06/2018
12. https://dev.grakn.ai/academy/loading-files.html, available on 06/06/2018
13. https://searchdatamanagement.techtarget.com/definition/NoSQL-Not-Only-SQL, available on 06/06/2018

Index Terms

Computer Science
Databases

Keywords

Knowledge management, Hypergraphs, NoSQL