International Conference on Systems, Science, Control, Communication, Engineering and Technology 2015 [ICSSCCET 2015]

ISBN	978-81-929866-1-6	VOL	01
Website	icsscet.org	eMail	icsscet@asdf.res.in
Received	10 - July - 2015	Accepted	31 - July - 2015
Article ID	ICSSCCET008	eAID	ICSSCCET.2015.008

An enhanced Rough Set Based Technique for Elucidating Learning styles in E-Learning System

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Abstract: *Rough set theory is considered as the most essential strategy significantly suitable for illustrating distinctive sorts of learning styles controlled by the learner during e-learning power through feature information relation. The Rough set hypothesis is likewise utilized for efficiently finding relations with conflicting or fragmented information which is incomplete in nature. Be that as it may, when hash set hypothesis is consolidated, they are not sufficiently efficient to evaluate ideal subsets. Hence, this paper provides a comparison of various rough set based techniques for adopting learning styles. The paper provides the analysis of rough set based clustering methods in terms of two parameter reduction and coupling. In addition, the paper also proposes an enhanced methodology based on normalized mean value for finding the deviation between data's through the equivalence property of rough set theory. The experimental results show that the proposed algorithm maximizes the standard metrics.*

Keywords: Rough set theory, e-learning, Learning styles, Normalization, Standard deviation.

1 Introduction

E-learning is one of the emerging technologies incorporated by the worldwide educational organization for the purpose of enabling services like i) providing virtual learning facilities, ii) creating content for various domains for learners, iii) creating the virtual class environment by means of online admission, online attendance and online conduction of classes[1]. In order to give successful online administrative services in an e-learning system, the information about the learners and their interested domains of learning must be known. This type of learners' information assumes a vital role for the effective usage of e-learning framework [2]. However, the problem associated with this implementation methodology is growth of learners' information exponentially towards the time factor [3]. Then, the analysis of learning factors in a large amount of learners' information becomes a challenging issue. Hence, there is a need arises to incorporate a set of adaptable rules to analyze the learners' information for designing an effective and efficient e-learning system.

This paper contributes a rough set theory based data analysis model for mining relevant and significant information from the large amount of learners' data of the e-learning system. This model incorporates the principle of reducts in rough set theory for extracting knowledge from the learners' information [4].

The learning style of an individual is one of the imperative data to be derived from the learners' information. Since, the nature of the

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training and the adequacy of the information about the specific domain not just rely on the substance given in the e-learning framework

Cite this article as: K.S.Bhuvaneshwari, Dr. D. Bhanu, Dr. S. Sophia. "An enhanced Rough Set Based Technique for Elucidating Learning styles in E-Learning System." *International Conference on Systems, Science, Control, Communication, Engineering and Technology (2015)*: 27-32. Print.

An Enhanced Rough Set Based Technique For Elucidating

Richard A. Gould,Michael B. Schiffer

An Enhanced Rough Set Based Technique For Elucidating:

Proceedings of the International Conference on Systems, Science, Control, Communication, Engineering and Technology 2015 Kokula Krishna Hari K,Keerthivasan M,D Bhanu,2015-08-10 ICSSCCET 2015 will be the most comprehensive conference focused on the various aspects of advances in Systems Science Management Medical Sciences Communication Engineering Technology Interdisciplinary Research Theory and Technology This Conference provides a chance for academic and industry professionals to discuss recent progress in the area of Interdisciplinary Research Theory and Technology Furthermore we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject The goal of this conference is to bring together the researchers from academia and industry as well as practitioners to share ideas problems and solutions relating to the multifaceted aspects of Interdisciplinary Research Theory and Technology *Elucidating Essential Targets in Pharmacologically Relevant System Models* Abraham Anderson,2002 Internet of Things and Big Data Analytics for a Green Environment Yousef Farhaoui,Bharat Bhushan,Nidhi Sindhwani,Rohit Anand,Agbotiname Lucky Imoize,Anshul Verma,2024-11-27 This book studies the evolution of sustainable green smart cities and demonstrates solutions for green environmental issues using modern industrial IoT solutions It is a ready reference with guidelines and a conceptual framework for context aware product development and research in the IoT paradigm and Big Data Analytics for a Green Environment It brings together the most recent advances in IoT and Big Data in Green Environments emerging aspects of the IoT and Big Data for Green Cities explores key technologies and develops new applications in this research field Key Features Discusses the framework for development and research in the IoT Paradigm and Big Data Analytics Highlights threats to the IoT architecture and Big Data Analytics for a Green Environment Present the I IoT architecture I IoT applications and their characteristics for a Green Environment Provides a systematic overview of the state of the art research efforts Introduces necessary components and knowledge to become a vital part of the IoT revolution for a Green Environment This book is for professionals and researchers interested in the emerging technology of sustainable development green cities and Green Environment

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Table of Contents An Enhanced Rough Set Based Technique For Elucidating

1. Understanding the eBook An Enhanced Rough Set Based Technique For Elucidating
    - The Rise of Digital Reading An Enhanced Rough Set Based Technique For Elucidating
    - Advantages of eBooks Over Traditional Books
2. Identifying An Enhanced Rough Set Based Technique For Elucidating
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an An Enhanced Rough Set Based Technique For Elucidating
    - User-Friendly Interface
4. Exploring eBook Recommendations from An Enhanced Rough Set Based Technique For Elucidating
    - Personalized Recommendations
    - An Enhanced Rough Set Based Technique For Elucidating User Reviews and Ratings
    - An Enhanced Rough Set Based Technique For Elucidating and Bestseller Lists
5. Accessing An Enhanced Rough Set Based Technique For Elucidating Free and Paid eBooks

- An Enhanced Rough Set Based Technique For Elucidating Public Domain eBooks
- An Enhanced Rough Set Based Technique For Elucidating eBook Subscription Services
- An Enhanced Rough Set Based Technique For Elucidating Budget-Friendly Options

6. Navigating An Enhanced Rough Set Based Technique For Elucidating eBook Formats
   - ePub, PDF, MOBI, and More
   - An Enhanced Rough Set Based Technique For Elucidating Compatibility with Devices
   - An Enhanced Rough Set Based Technique For Elucidating Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of An Enhanced Rough Set Based Technique For Elucidating
   - Highlighting and Note-Taking An Enhanced Rough Set Based Technique For Elucidating
   - Interactive Elements An Enhanced Rough Set Based Technique For Elucidating
8. Staying Engaged with An Enhanced Rough Set Based Technique For Elucidating
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers An Enhanced Rough Set Based Technique For Elucidating
9. Balancing eBooks and Physical Books An Enhanced Rough Set Based Technique For Elucidating
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection An Enhanced Rough Set Based Technique For Elucidating
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine An Enhanced Rough Set Based Technique For Elucidating
    - Setting Reading Goals An Enhanced Rough Set Based Technique For Elucidating
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of An Enhanced Rough Set Based Technique For Elucidating
    - Fact-Checking eBook Content of An Enhanced Rough Set Based Technique For Elucidating
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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