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**Paper Title:** Impact of Information Technology on Data Mining Field Methodology in Security Systems and Event Management

**Abstract:** This paper gives an overview of data mining field & security information event management system as a technique for knowledge management in business process redesign, in this paper we discuss potential use of data mining techniques in mining. It reviews the basic techniques and methods of data mining and proceeds to identify possible mining applications of this methodology. In particular the paper proposes use of data mining to develop predictive capacity related to condition and performance of mining equipment. Other possible uses of data mining include optimization of mine performance as well as equipment operator training.

1. **Keywords:** Data mining, security information event management system.

**References:**

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Authors: **Elif Akbay, Gülberk Demir**

**Paper Title:** Synthesis and Characterization of Cesium Salt of 12-Tungstophosphoric Acid Supported on SBA-15

**Abstract:** 12-tungstophosphoric acid of cesium salt supported on SBA-15 (Cs-TPA/SBA-15) was synthesized by the two-step impregnation technique. Acidic cesium salts supported on SBA-15 at 20%, 40% and 60% loading were synthesized and characterized. Then obtained catalyst have been characterized by XRD, FT-IR, FT-IR spectroscopy of pyridine adsorption, BET analysis, SEM and XRF. It was seen that Cs-TPA was hold on to SBA-15. At high loading percentage, structure of SBA-15 has been deformed.

**Keywords:** 12-Tungstophosphoric Acid Cesium Salt, SBA-15.

2. **References:**

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Authors: **Ndayambaje J. Claude, Richard Onchiri, Walter O. Oyawa**

**Paper Title:** Combined Effect of Recycled Tyre Steel Fibre and Crumb Rubber on Flexural Toughness of Concrete

**Abstract:** The disposal of scarp tyres has been environmental concern over the past few decades. Plain Concrete exhibits brittle behaviour which is undesirable property for a structural material resisting dynamic forces. Using used tyre crumb rubber and steel cords extracted from used tyres as steel fibre reinforcement can enhance ductility and toughness of concrete which is environmentally beneficial and technically sound. In this study, 12.5% volume of Crumb rubber of maximum size passing sieve 4.75mm was used to replace fine aggregates and recycled tyre steel fibre (RTSF) dosages of 0.3%,0.6%,0.9% and 1.2% by mass of concrete were added in concrete to investigate flexural performance of the Recycled tyre steel fibre reinforced rubber concrete (RTSFRC). 24 Concrete beams (300x150x150mm) were manufactured to evaluate the effect of (RTSF) volume and its aspect ratios on flexural strength and Toughness of rubber concrete. The results showed that, combined crumb rubber and recycled tyre steel fibre from waste tyres improved the ductility and toughness of concrete.

3. **References:**
**Keywords:** Recycled tyre steel fibre, Crumb Rubber, Recycled tyre steel fibre reinforced rubber concrete, Flexural strength, Flexural Toughness, Toughness index, Residual strength factor.

**References:**
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**Authors:** Muhammad Shahzad, Muhammad Shakeel, Um-A-Kalsoom, Atiq Ur Rehman, M Umair Shoukat

**Paper Title:** Review on Sorting Algorithms - A Comparative Study

**Abstract:** sorting of elements is an important task in computation that is used frequently in different processes. For accomplish task in reasonable amount of time efficient algorithm is needed. Different types of sorting algorithms have been devised for the purpose. Which is the best suited sorting algorithm can only be decided by comparing the available algorithms in different aspects. In this paper a comparison is made for different sorting algorithms used in computation.

**Keywords:** Best Sorting Algorithm, Bubble Sort Algorithms, Quick Sort Algorithms, Sorting Algorithms, Efficient Sorting.

4. **References:**
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