Association rule mining is a complex method of knowledge discovery process. The most complex and time-consuming part of the association rule mining is finding of frequent patterns or itemsets, because it requires the physical scan of database. Though various existing algorithms find all the frequent itemsets (and association rules also) in a very fast manner they still perform lengthy scanning of database, complex join, complex tree traversal and require more memory to store tree structures. The paper titled "CAARMSAD: Combinatorial Approach of Association Rule Mining for Sparsely Associated Databases" authored by P. R. Pal and R. C. Jain overcomes these problems and mines the association rules in the fastest manner. Authors S. Annadurai and S. Uma in their paper titled "Image Restoration Using Five Level Modified Weighed Fuzzy Mean Filter" has put forward a new type of filter, whose computational complexity is less compared to the conventional filters and removes both positive and negative spikes from the corrupted images. C. Chandra Sekhar Reddy and Dr. K. R. Prasad in their research work titled "Performability Modeling of Identical Multiprocessors System with Remodeling and Restarting Delay" have presented various performability parameters for modeling of homogeneous multiprocessor systems. R. Ghayoula, N. Fadlallah, A. Gharallah, and M. Rammal have proposed a pattern synthesis method for linear array antennas based on Fourier transform method and neural network technique. Their proposed method shows improvements in terms of performance, computational speed, and elasticity. They have explained technology and validity of their work in the paper "Neural Modeling for Synthesis of Sector Beam and Multibeam Array Antennas". Advents of multimedia combined with information and communication technology boost the potential of information handling and sharing. At the same time these benefits introduce concomitant risks for shared information and call for more secure information management. Watermarking algorithm proposed by M. Devapriya and Dr. K. Ramar in their research work titled "Dual Digital Water Marking Using Wavelet Transform" satisfies important requirements of watermarking method namely, perceptual invisibility and robustness. This algorithm has withstood tests for various attacks and proved that it is robust against lossy compression, geometric distortions and common signal processing operations. Authors P. Kiran Sree, Dr I Ramesh Babu and N. S. S. N. Usha Devi in their research paper titled "Investigating an Artificial Immune System to Strengthen the Promoter Region Structure Prediction and Promoter Region identification using Cellular Automata Classifier" have proposed a AIS MAFCA based supervised pattern classifier to address the problems of Promoter region, Coding region identification in DNA sequences and finding the Structure of Promoter Regions.

S. N. SIVANANDAM
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7) Characterisation Of Multithreaded Application Workloads On Intel Processors
M. Shanthi, George T. Manohar

8) Performance Adjustment Of Speech Rate In Automatic Speech Recognition
E. Chandra

(ii)