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Research Papers:

1. Mobile Cloud Computing and Issues - A Survey

   Together with rapid growth in mobile applications and cloud computing technology, mobile cloud computing has been introduced to be a potential technology for mobile services. In this paper, we present a survey of mobile cloud computing research, highlighting the specific issues in mobile cloud computing. This Paper gives a brief introduction of **mobile cloud computing** and its architecture. It also discusses various different aspects of issues involved in Mobile Cloud Computing.
   [International Journal of Scientific & Engineering Research, Volume 6, Issue 12, December-2015 ISSN 2229-5518]

2. Comparative study of "Maximum Clique Solving Algorithm"- MCQ, MCR, Bit Parallel & Improved Bit Parallel (Under Review) – Team member: Akhil Srivastava, Sandeep Singh, Abhay Kumar Rai (Associate Professor at University of Allahabad)

   A clique as a complete subgraph in which all pairs of vertices are adjacent to each other. Algorithms for finding a maximum clique in a given graph have received much attention especially recently, since they have many applications. There has been much theoretical and experimental work on this problem. In particular, while finding a maximum clique is a typical NP-hard problem, considerable progress has been made for solving this problem in practice. Furthermore, much faster algorithms are required in order to solve many practical problems. Along this line, Tomita et al. developed a series of branch-and-bound algorithms MCQ, MCR and MCS among others that run fast in practice and this above research enabled us doing a comparative study of these algorithms.

3. Vertex Removal improvement over all Maximum clique problem- MCQ, MCR, Bit Parallel (Under Process)

   This algorithm is used to reduce the time complexity of all Maximum Clique finding algorithm like MCQ, MCR, and MCS. It converts the whole graph into bits of graph(smaller graph) by removing vertices .This reduces the time complexity of previously developed algorithm for finding Maximum Clique of a graph .

Projects:

1. Maze solving robot using Arduino Uno

   It is an Arduino based robot which can solve a maze by using “Left Wall Rule”. It uses IR sensors to detect the black lines on the floor and decides the path quite wittingly. It finds the shortest path in order to reach its destination point only after a single iteration.

2. Instant IMDB details searching application based on SOLR

   It is my TCS remote internship project. This project is to search details of movies, genres from IMDB database. This database is stored inside a MySQL database, indexed by SOLR. It can search data efficiently while dealing with data in large volume.

3. Automatic Vehicle Number Plate recognition using MATLAB

   This application is a MATLAB based project that can recognize the number plate of the vehicle and can convert the graphical data of the number plate into its textual form. It matches the text letters from picture after doing image processing through sample letters and produces the desired result.