Vol. 1





APPLICATION FABRICS



MASIVJ

Madurai Sivakasi Nadars Pioneers Meenakshi Women's College Poovanthi, Tamil Nadu, India Email: journmsnpioneer@gmail.com Ph: 9843259191

RESOURCE MANAGEMENT DECISION MAKING IN CLOUD COMPUTING USING OPERATIONS RESEARCH	B.Usha	62
AKTIVE RANK ONTOLOGY RANKING: A REVIEW	Sivasankari.R	66
5G TECHNOLOGIES IN MOBILE DEVICES	M. Saranya	72
A COGNITIVE METHOD TO SOLVE WATER JUGS PROBLEMS	R. Smeeta Mary	76
IMPROVEMENT IN PERFORMANCE OF MIMO SYSTEM BY DESIGNING A COMBINED ANALOG AND DIGITAL BEAMFORMER THROUGH CONVEX OPTIMIZATION TECHNIQUE	V.Muthu Kumar, V.Karthick & A.Suban	80
A SURVEY ON KNOWLEDGE BASED AUTHENTICATION USABILITY AND ITS SECURITY ATTACKS	M. Janani	87
COMPONENTS OF WIRELESS NETWORKS	Amaladevi B	91
PUBLIC KEY CRYPTOGRAPHY USING MERKLE- HELLMAN KNAPSACK METHOD AND GENETIC ALGORITHM	S.Devi	96
A SECURE COOKIE PROTOCOL	B.K. Mathan Nagan & G. Sahana	10
DRUGS DISCOVERY BASED ON COMPUTATIONAL FECHNIQUES	Usha Mary .K & Nisha.K	10
PETECTION IN ARTIFICIAL INTELLIGENCE	R.Smeeta Mary & B.Chandrika	1

Vol. 1

ISSN: 2454-450 A COGNITIVE METHOD TO SOLVE WATER JUGS PROBLEMS

R. SMEETA MARY M.C.A., M. Phil Assistant Professor, Department of Computer Applications, Fatima College, TamilNadu, India.

Abstract - The Water Jug problem is a famous problem in Artificial Intelligence, P Abstract - The Water Jug problem is a solving, Recreational, Computer Programming and Psychology. The solution of the problem is a solving, Recreational, Computer Programming and Psychology. The solution of the problem is a solving, Recreational, Computer Programming and Psychology. The solution of the problem is a solving, Recreational, Computer Programming and Psychology. solving, Recreational, Computer Flograms and Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth mainly based on some search methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such as Breadth First Search (BFS) or Depth methods such Search (DFS) or Diophantine approach. In BFS, DFS and Diophantine approach we find solution. In this paper, a new arithmetic Search (DFS) or Diophantine approach we find a draw back while finding out the solution. In this paper, a new arithmetic approach which is used to solve the problem, it is simple. Extended Euclidean approach which is used to solve the problem, it is simple and suit the sample and sample and suit the sample and sample and suit the sample and sa for manual calculation or programming language implementation. Analysis of the solution of the for manual calculation of programmes involves various steps and some illustrative examples are provided with different stages

Key words - Water jugs problem, Artificial Intelligence, Problem solving, Diophantine approach, Extended Euclidean approach

I. INTRODUCTION

The Artificial Intelligence is the study of how to make computers to do things better than the human being. As the term says, here the water jug problem is wellknown problem in Artificial Intelligence [1], Computer Programming [2], Problem solving [3], Geometry [4], Recreational and discrete Mathematics [5,6] Psychology [7,8,9].

"You are at the side of a river. You have a 3 liter jug and a 5 liter jug. The jugs do not have markings to allow measuring smaller quantities. How can you use the jugs to measure 4 liters of

There are various methods to solve this problem, including Breadth First search [10], Depth First Search [11] and the Diophantine approach [12]. However each and every method has its own

disadvantages that is in BFS the ro not get trapped by exploring a b alley. In DFS, by chance we can as that we will be getting the goal e and the memory space is less. Diophantine approach the goal to depends on the assumption that arem over the value of X and Y.

In this paper a simple Arithm approach to solve the problem that introduced. A novel feature of approach is that one can deduce the t amount of water in jugs at each step getting the value of X and Y by using backward approach. When these val are just substituted in the Exten Euclidean equation our goal will reached. Due to its simplicity it is suitable for manual calculation of proving steps.