

Scheduled System Maintenance
On Tuesday, July 26, IEEE Xplore will undergo scheduled maintenance from 1:00-4:00 PM ET.
During this time, there may be intermittent impact on performance. We apologize for any inconvenience.

[IEEE.org](#)

[IEEE Xplore](#)

[IEEE-SA](#)

[IEEE Spectrum](#)

[More Sites](#)

[SUBSCRIBE](#)

[Cart](#)

[Create Account](#)

[Personal Sign In](#)

IEEE Xplore®

[Browse](#) ▾

[My Settings](#) ▾

[Help](#) ▾

[Institutional Sign In](#)



All



ADVANCED SEARCH

[Conferences](#) > [2017 World Congress on Comput...](#)

An Algorithmic Arithmetic Approach to the Water Jugs Problem

Publisher: IEEE

[Cite This](#)

[PDF](#)

3 Author(s)

R. Sreelakshmi Mary ; R. Josephine Therese ; T. Manoj Prakashan ; All Authors

68
Full
Text
Views



Abstract

Document Sections

I. Introduction

II. An Arithmetic Approach to the Water JUG Problem

III. Examples

IV. Implementation of the Algorithm in Excel

V. Concluding Remarks

Authors

Abstract:

The Water Jug problem is a famous problem in Artificial Intelligence, Problem solving, Recreational, Computer Programming and Psychology. The solution of the problem mainly based on heuristic approach or some search methods such as Breadth First Search (BFS) or Depth First Search (DFS) or Diophantine approach or Extended Euclidean approach. The existing methods of solutions are often non-algorithmic in nature. In this paper, we present an algorithmic approach to solve this problem and describe its implementation in Excel. Illustrative examples are provided.

Published in: 2017 World Congress on Computing and Communication Technologies (WCCCT)

Date of Conference: 2-4 Feb. 2017

INSPEC Accession Number: 17280122

Date Added to IEEE Xplore: 19 October 2017

DOI: 10.1109/WCCCT.2016.59

► ISBN Information:

Publisher: IEEE

Conference Location: Tiruchirappalli, India

Need Full-Text
access to IEEE Xplore
for your organization?

[CONTACT IEEE TO SUBSCRIBE >](#)

More Like This

Distributed artificial intelligence for multi-agent problem solving and group learning
Proceedings of the Twenty-Fourth Annual Hawaii International Conference on System Sciences
Published: 1991

A 1.41mW on-chip/off-chip hybrid transposition table for low-power robust deep tree search in artificial intelligence GoCa
2017 50th IEEE International System-on-Chip Conference (SOCC)
Published: 2017

[Show More](#)

Top Organizations with Patents on
Technologies Mentioned in This Article

ORGANIZATION 4