International Journal of Engineering Sciences Paradigms and Researches (IJESPR)
(Vol. 23, Issue 01) and (Publishing Month: August 2015)
(An Indexed, Referred and Impact Factor Journal)
ISSN (Online): 2319-6564
www.ijesonline.com

Abstract Details

Title: Testing Abstract Data Types: A Formal Goal Oriented Approach

Author: Amal Awad Mirghani Yassin

Abstract: Whereas software testing is known to be able to prove the presence of faults, but not their absence, it can also be used to build a statistical argument regarding the likelihood of failure free operation. In this paper, we elaborate on this argument to present a testing method that is part of an integrated software validation process, whereby testing and proving methods play complementary roles in advancing product quality.

Keywords: Software testing, program proving, program specification, test oracle, software tools.