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Correspondence

Dr. Durga Prasad Mohapatra
Associate Professor & Convener, R-TOOST
Department of Computer Science & Engg.
National Institute of Technology Rourkela
Rourkela-769 008, Orissa, India
Phone: 0661 2462356 (O)
0661 2463356 (R)
09437648628(Mob)
E-mail: durga@nitrkl.ac.in
durgapm2004@yahoo.com



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Department of Computer Science & Engineering, NIT, Rourkela was established in 1982. Since its inception, the Department is under dynamic progress and is able to establish the reputation for imparting quality education both at undergraduate and graduate programmes. The department has well equipped modern laboratories such as Software Engineering, Information Security & Data Communication, Image Processing & Cluster Computing and Advanced Database Engineering Labs for pursuing research keeping in view of the technological advancement.



3rd National Workshop

on

RECENT TRENDS IN OBJECT-ORIENTED SOFTWARE TESTING (R-TOOST)

12th – 14th April 2010

Dr. Durga Prasad Mohapatra
Convener

Pankaj Kumar Sa
Co-Convener



Department of Computer Science & Engg.

National Institute of Technology

Rourkela-769 008, Orissa

<http://www.nitrkl.ac.in>

ABOUT THE WORKSHOP

A large number of software fails due to lack of proper testing. Testing is an important activity in the software development process. It takes maximum effort among all the phases. The objective of software testing is to identify all defects existing in the software product. Testing provides a practical way of reducing defects in a system & increasing the user's confidence in a developed system.

Testing traditional software is relatively easy. But testing of OOPs is very difficult. Though the O-O features such as inheritance, polymorphism, dynamic binding etc. are the greatest strengths of OO software, but they pose special difficulties in the testing process. So, one has to give special attention while testing OO softwares.

In this workshop, the issues related with testing OO softwares will be highlighted. The recent trends in testing of OO software will be presented by eminent experts. Now-a-days, the testing of OO software is based on design documents such as UML diagrams, rather than the source codes, due to several advantages. So, in this workshop, various UML diagrams and their applications to testing of O-O software will be discussed. Besides this, the participants will be given hands on in O-O software testing using **Magic Draw** and **TestComplete**.

INVITED TALKS

Some invited talks will be delivered by experts from IIT, Kharagpur, faculty members of NIT, Rourkela, experts from other sister NITs and experts from industry.

CONTENTS OF THE WORKSHOP

1. OBJECT-ORIENTED TESTING STRATEGIES
 - Unit Testing in the O-O Context
 - Integration Testing in the O-O Context
 - Validation Testing in the O-O Context
2. TEST CASE DESIGN FOR O-O SOFTWARE
 - Fault-Based Testing
 - Scenario-Based Testing
 - Testing Surface Structure and Deep Structure

3. TESTING METHODS APPLICABLE AT THE CLASS LEVEL
 - Random Testing for O-O Classes
 - Partition Testing at the Class Level
4. INTERCLASS TEST CASE DESIGN
 - Multiple Class Testing
 - Tests Derived from Behavior Models
5. INTRODUCTION TO UML DIAGRAMS
6. TESTING OF O-O SOFTWARE USING UML DIAGRAMS
7. TESTING USING PROGRAM SLICES
8. CASE TOOLS: RATIONAL ROSE, MAGIC DRAW & TEST COMPLETE.

Call for Papers

The workshop also invites original research papers in the areas of O-O Software Engineering, Model Based Software Testing, Program Slicing and Its Application to Testing, Testing with Evolutionary Algorithm, Aspect-Oriented Programming, etc. The papers should be strictly formatted with [IEEE](#) word format of maximum 8 Pages and should be e-mailed to durga@nitrrkl.ac.in on or before **28th February 2010**.

REGISTRATION & FEE PARTICULARS

Applications in the prescribed format and the registration fee as per given below in the form of a DD, drawn in favour of "Continuing Education, NIT, Rourkela" payable at SBI, NIT Branch, Rourkela-8 (Code-2109) must reach the Convener on or before **4th April 2010**. Registration fee includes boarding, lodging and workshop materials.

Employees from Industry and R&D Org. Rs.6,000/-

Faculties from Educational Institutions Rs.3,000/-

Research Scholars and Students * Rs.1, 000/-

IMPORTANT DATES

Last Date for Paper Submission: 28th February 2010
Acceptance Notification (for Authors): 15th March 2010

Camera Ready Paper Submission: 22nd March 2010
Last Date for receiving registration form: 4th April 2010

Display of selected list of participants in institute website: 5th April 2010

*Limited number of Participants will be reimbursed 2nd class to and fro journey fares through the shortest route, on prior request along with proof of studentship.

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Registration Form

1. Name:.....

.....

2. Designation:

3. Organization:

4. Address:.....

.....

Phone:.....Mob:

E-mail:.....

5. Accommodation Required: YES/NO

6. Gender: Male/Female

7. Registration Fee Details:

Amount: Rs

.....

DD No:Drawn

on.....

Branch.....

Place:

Date:

Signature of the Applicant

Signature of Sponsoring Authority (With Seal)