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# Correspondence

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Asso. Professor & Convener, RTST - 2016

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# 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, Distributed Object Systems, Information Security & Data Communication, Image Processing & Cluster Computing and Advanced Database Engineering Labs for pursuing research keeping in view of the technological advancement.



# 9<sup>th</sup> National Workshop On

RECENT TRENDS IN SOFTWARE TESTING (RTST - 2016)

16th -18th May 2016

Dr. Durga Prasad Mohapatra
Convener

Dr. Suchismita Chinara Co-Convener



Department of Computer Science & Engineering
National Institute of Technology
Rourkela-769 008, Odisha
http://www.nitrkl.ac.in

#### **ABOUT THE WORKSHOP**

The Workshop on Recent Trends in Software Testing (RTST) will provide a forum for discussions on theoretical and practical aspects of advanced software testing, exchanging research ideas and challenges, exploring possible solutions and future directions. This is the 8<sup>th</sup> workshop of the series. The main goal of this workshop is to bring together researchers and practitioners from both academia and industry.

The workshop mainly includes invited lectures on recent advances in software testing both from industry and academia. The invited lectures will mainly cover the following areas: mc/dc testing, concolic testing, model based testing, object-oriented testing strategies, regression testing, test case optimization and prioritization, testing of web, SOA and cloud based applications. The invited talks will be delivered by experts from IITs, ISIs, faculty members of NIT, Rourkela, experts from other sister NITs & other reputed institutes and experts from industry.

Besides this, the participants will be given hands on software testing using tools such as RFT, JaBUTi, TestComplete, JMeter, Jumble, SOAP UI etc.

#### **INVITED TALKS**

Invited talks will be delivered by experts from IIT, Kharagpur and 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

- 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. REGRESSION TESTING
- 6. MODEL BASED TESTING
- 7. MC/DC TESTING
- 8. TESTING OF WEB BASED APPLICATIONS
- 9. TEST CASE PRIORITIZATION
- 10. TEST CASE OPTIMIZATION
- 11. TESTING TOOLS: RFT, TestComplete, JaBUTi, JMeter, Selenium, Jumble etc.

#### **REGISTRATION & FEE PARTICULARS**

Applications in the prescribed format and the registration fee as given below in the form of a DD, drawn in favour of "RTST - 2016, NIT, Rourkela" payable at SBI, NIT Branch, Rourkela-8 (Code-2109) must reach the Convener on or before 1<sup>st</sup> May 2016. Registration fee includes boarding, lodging and workshop materials.

Employees from Industry and R&D Rs.7,000
Organizations
Faculty from Academic Institutions Rs.4,000
Full Time Research Scholars and Students \* Rs.2,000

For details, please visit the Workshop Web Site: <a href="http://www.nitrkl.ac.in/Academic/1Department/CS/CEP/R">http://www.nitrkl.ac.in/Academic/1Department/CS/CEP/R</a> TST2016.aspx

\*Limited number of participants will be reimbursed sleeper class to and fro journey fare through the shortest route, on prior request, subject to availability of funds. Research scholars and students of NIT, Rourkela need not pay any registration fee.

# 9<sup>th</sup> National Workshop on RECENT TRENDS IN SOFTWARE TESTING (RTST - 2016) 16<sup>th</sup> - 18<sup>th</sup> May 2016

# **Registration Form**

1.	Name:
2.	Designation:
3.	Organization:
4.	Specialization:
5.	Address:
	Phone:Mob:
	E-mail:
6.	Accommodation Required: YES/NO
7.	Gender: Male/Female
8.	Registration Fee Details:
	Amount: Rs
	DD No: Drawn on
	Branch

Copies of this form can be made, if necessary. Please send the duly filled in form to the Convener on or before 1<sup>st</sup> May **2016**. The details of the workshop & the form can also be downloaded from our website http://www.nitrkl.ac.in.

Signature of the Applicant

Place:

Date: