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### Correspondence

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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.



## ACM iSOFT Sponsored

## 10<sup>th</sup> National Workshop

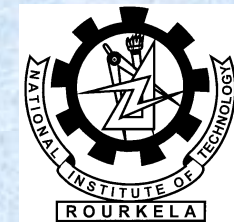
On

## RECENT TRENDS IN SOFTWARE TESTING (RTST - 2017)

21<sup>st</sup> – 23<sup>rd</sup> July 2017

Dr. Durga Prasad Mohapatra  
Convener

Dr. Ratnakar Dash  
Co-Convener



Department of Computer Science &  
Engineering

National Institute of Technology  
Rourkela-769 008, Odisha

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

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## 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 10<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 NUS, Singapore, IIT, Kharagpur and faculty members of NIT, Rourkela, experts from other sister NITs and experts from industry. Prof. Aquinas Hobor, NUS Singapore will deliver the keynote address.

## 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 & OPTIMIZATION
10. SOFTWARE VERIFICATION
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 "CONFERENCE NIT ROURKELA" payable at SBI, NIT Branch, Rourkela-8 (Code-2109) must reach the Convener on or before 10<sup>th</sup> July 2017. Registration fee includes workshop materials and banquet dinner. Accommodation may be provided in institute guest house/hostels on payment basis. For accommodation, participants have to mention it in the application form and may request through email.

### Registration Fee

Employees from Industry and R&D Organizations	Rs. 7,000
Faculty from Academic Institutions	Rs. 2,000
Full Time Research Scholars and Students *	Rs. 1,000
<b>Accommodation Charges (per day per bed)</b>	
Guest house (South block)	Rs. 600
Guest house (North block)	Rs. 300
Hostel	Rs. 100

For details, please visit the Workshop Web Site: <http://www.nitrkl.ac.in/Academic/1Department/CS/CEP/RTST2017.aspx>

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

## 10<sup>th</sup> National Workshop on RECENT TRENDS IN SOFTWARE TESTING (RTST - 2017) 21<sup>st</sup> - 23<sup>rd</sup> July 2017

### Registration Form

1. Name:.....
2. Designation: .....
3. Organization: .....
4. Specialization: .....
5. Address:.....  
.....  
Phone:.....Mob: .....
- E-mail:.....
6. Accommodation Required: YES/NO  
Guest house(South block/North block) / Hostel
7. Gender: Male/Female
8. Registration Fee Details:  
Amount: Rs .....
- DD No: .....Drawn on.....  
Branch.....
- Place:
- Date: Signature of the  
Applicant

Copies of this form can be made, if necessary. Please send the duly filled in form to the Convener on or before 10<sup>th</sup> July 2017. The details of the workshop & the form can also be downloaded from our website <http://www.nitrkl.ac.in>.