Mutation 2011
6th International Workshop on Mutation Analysis

March 21-25, 2011 (exact date to be determined). Berlin,Germany

Co-located with ICST 2011 (4th International Conference on Software Testing, Verification and Validation)

Mutation is acknowledged as an important way to assess the fault-finding effectiveness of tests sets. Mutation testing has mostly been applied at the source code level, but more recently, related ideas have also been used to test artifacts described in a considerable variety of notations and at different levels of abstraction. Mutation ideas are used with requirements, formal specifications, architectural design notations, informal descriptions (e.g. use cases) and hardware. Mutation is now established as a major concept in software and systems V&V and uses of mutation are increasing. The goal of the Mutation workshop is to provide a forum for researchers and practitioners to discuss new and emerging trends in mutation analysis. We invite submissions of both full-length and short-length research papers as well as industry practice papers.

Topics of interest:

▪ Mutation-based test adequacy criteria (theory or practical application).
▪ Mutation testing using higher order mutants.
▪ Test-case generation using mutants.
▪ Using mutation in empirical studies (e.g. studies that compare mutation with other testing techniques).
▪ Industrial experience with mutation.
▪ New mutation systems for programming languages (e.g. for languages not yet addressed, or offering improvements on existing ones) and for higher-level descriptive notations (e.g. formal specification notations and architectural design notations).
▪ Novel applications of mutation including mutation for QoS properties (security, performance, etc.).

Submission

Two types of papers can be submitted to the workshop:

- Full papers (10 pages): Research, case studies
- Short papers (6 pages): Research in progress, tools, experience reports, problem descriptions, new ideas

Each submitted paper must conform to the IEEE format and submission guidelines. Submissions will be evaluated according to the relevance and originality of the work and to their ability to generate discussions between the participants of the workshop. Each paper will be reviewed by three reviewers, and accepted papers will be published in the IEEE Digital Library.

Important Dates

Submission of full papers: December 22, 2010
Notification of acceptance: February 1, 2011
Date of workshop: March 21-25, 2011 (to be determined)

Program Chairs

Lydie du Bousquet, Laboratoire d'Informatique de Grenoble (LIG), France
Mercedes G. Merayo, University Complutense de Madrid, Spain

Website   For more information see **http://antares.sip.ucm.es/mutation2011/**