Workshop on Accountability and Traceability in Global Software Engineering (ATGSE2007) in Nagoya, Japan, December 3, 2007

Co-located with the 14th Asia-Pacific Software Engineering Conference (APSEC'07)

Objective and Motivation

This workshop will explore approaches to collecting, analyzing, and reporting software engineering metrics in projects that may be globally distributed, involve multiple offshore companies, and use combinations of open source and proprietary software components. While many companies and academic software engineering researchers have explored ways to collect and analyze empirical software metrics within a company, the reality of modern software development involves outsourcing, offshore development, and integration from multiple sources. Unfortunately, corporate concerns often limit the availability and use of empirical data outside the project or company, which can make providing accountability and traceability for such projects difficult. This workshop will examine the status of efforts to collect and report software engineering metrics in various Asian-Pacific countries, and some possible approaches to extending the availability and use of this information to suit the global outsourced software engineering world.

The workshop will address several topics:

1. Status of empirical software engineering efforts in various Asian-Pacific areas
2. Software development environments, including global outsourcing and use of components from multiple vendors
3. Empirical data collection methods and specifications
4. Tools for collection and analysis of empirical data
5. Visualization of empirical data and software engineering processes
6. Possible approaches to accountability and traceability for offshore development based on software engineering metrics
7. Social and economic impacts of accountability and traceability in offshore development
8. Research and collaboration possibilities to explore concepts of accountability and traceability in offshore development

The key result of the workshop will be a report mapping the status of empirical software engineering efforts in the Asian-Pacific areas and possible approaches to accountability and traceability for offshore development. The report will also list necessary research areas dealing with this.

This workshop has implications for software maintenance and evolution, global software development outsourcing, software metrics and measurement, empirical software engineering, software process improvement, quality management, and testing, verification and validation among other topics of interest to the APSEC 2007 community. As embedded, ubiquitous software becomes an increasingly important part of our lives, effective accountability and traceability will become necessary. This workshop will begin to build the necessary foundations for this work.

Paper Submission and Publication

The workshop will be one full day, with 20-30 attendees including invited and open ones. The workshop will consist of 4-6 invited speaker presentations and 5-10 selected position paper presentations. All papers should be written in the IEEE conference format (http://www.computer.org/portal/pages/cscps/cps/cps_forms.html)

While it is preferred that attendees submit position papers, it is understood that not everyone will have a position paper. Attendees will include:

1. Invited Speakers
2. Attendees with position papers
3. Attendees

The Information Processing Society of Japan will publish accepted papers of the workshop in the workshop proceedings with an International Standard Serial Number (ISSN).

Please submit your position papers by sending them to atgse2007@is.naist.jp. The paper can be in MS Word format or PDF.

Important dates

- Paper Submission: September 30, 2007 [Position paper due (2 pages maximum)]
- Acceptance Notification: October 10, 2007 [Notification of selected position papers]
- Final Camera-Ready: October 29, 2007
- Workshop: December 3, 2007

Workshop Organization

- General Chair: Michael Barker (NAIST/MIT)
- Program Chair: Katsuro Inoue (Osaka University)
- Program Committee:
    - Marcus Ciolkowski (Fraunhofer IESE)
    - Hajimu Iida (NAIST)
    - Pankaj Jalote (IIT Delhi)
    - Ross Jeffery (NICTA)
    - Philip Johnson (University of Hawaii)
    - Dehua Ju (East China University of Science and Technology)
    - Shinji Kusumoto (Osaka University)
    - Shuji Morisaki (NAIST)
    - Tien Nguyen (Iowa State University)
    - David Notkin (University of Washington)
    - Ken-ichi Matsumoto (NAIST)
    - Harvey Siy (University of Nebraska)
    - Yulin Wang (Wuhan University)