

Accountability and
Traceability in Global
Software Engineering
ATGSE 2007
Opening

Mike Barker, NAIST

Katsuro Inoue, Osaka University



Background and Objectives of ATGSE 2007

- Expansion of **offshore development**
- Requirement of **transparency** in software development process
- Japanese government started various researches related to promoting **secure and safe life**
- **Stage project** (Software Traceability and Accountability for Global software Engineering)



Topics

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

Paper Submission

- 22 submissions
- 4 keynote presentations
- 10 short presentations
- 8 position papers (included in the proceedings)



Time Schedule

- Keynote 30min. including clarification Q&A
- Short 15min. including clarification Q&A
- Discussion 15min.



Opening and Session 1

9:50-10:00 Opening

10:00-11:00 Session 1:
Challenges of Global Software Development
Chair: Katsuro Inoue

(K) Culture Can Confound Global Software Metrics,
David Notkin

(S) The Challenge of Global Software Development, Mike
Barker

Discussion

11:00-11:10 Break

Session 2

11:10-12:40 Session 2:

Global Data Collection and Analysis,

Chair: Hajimu Iida

(K) Tracking Projects with Globally Distributed Teams,
Pankaj Jalote

(S) Some Open Problems in Software Project Data Analysis,
Akito Monden

(S) Improving Design Intent Research for Software
Maintenance, Paul S. Grisham, Hajimu Iida, and Dewayne
E. Perry

(S) Correlation Analysis for Distributed Development based
on Configuration Management and Bug Report, Masataka
Nagura, Hajimu Iida

Discussion

12:40-13:40 Lunch

Session 3

13:40-15:40 Session 3:

National Reports and Tools

Chair: Shinji Kusumoto

(K) Approaches to Accountability for Offshore Software Development, Yulin Wang

(S) Monitoring Offshored/Outsourced Software Maintenance Projects, Harvey Siy

(S) Conflict Detection and Resolution in Global Software Design Short Presentation, Tien N. Nguyen

(S) Applying Micro Process Analysis to Global Software Development, Shuji Morisaki, Hajimu Iida

(S) Software Engineers' View of Software Metrics in Australia: A Survey, Jacky Keung

(S) SPI and Benchmarking in China, Dehua Ju

Discussion

15:40-15:50 Break

Session 4

15:50-16:50 Session 4:

STAGE: an Approach

Chair: Mike Barker

(K) STAGE Project (Software Traceability and Accountability for Global software Engineering)
- Purchaser-Centered Approach in Empirical Software Engineering -, Kenichi Matsumoto

(S) Software Tag: Empirical Software Engineering Data for Traceability and Transparency of Software Project,
Katsuro Inoue

Discussion

16:50-17:00 Closing

Position Papers

1. Achieving Automated Software Data Collection and Monitoring in Globally Distributed Software Development, Jacky Keung
2. Context Analysis of Historical Process Data with the Project Replayer, Kimiharu Ohkura, Paul S Grisham, Hajimu Iida, and Dewayne E. Perry
3. Model-based Object-oriented Requirement Engineering (MORE) to Support Software Maintenance and Integration, William C. Chu, Chih-Hung Chang, David Hsu, Chih-Wei Lu, Nien-Lin Hsueh
4. Obstacles in Collecting Reliable Software Project Data, Jacky Keung
5. On a Use Case Points Measurement Tool for Effective Project Management, Shinji Kusumoto, Michio Tsuda, Katsuro Inoue
6. Toward Efficient Code Clone Detection on Grid Environment, Yuki Manabe, Yoshiki Higo, Katsuro Inoue
7. Towards Effective Reference Analysis for Software Component Retrieval System, Makoto Ichii, Reishi Yokomori, Katsuro Inoue
8. Tracking Code Clone for Software Traceability and Quality, Shinji Kawaguchi, Hajimu Iida

Workshop Organizers

- 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)

Logistics

- Lunch box will be provided during lunch break
- Coffee will be provided only at the afternoon break
- Wireless Lan is available
 - SSID: ...



Enjoy!

