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Note	

Panel Session
Accountability and Traceability in Global Software Engineering

Coordinator

Katsuro Inoue

Osaka University

Background of Panel

Workshop on
Accountability and Traceability in Global Software Engineering
ATGSE2007

- **Expansion of offshore development (Global Software Engineering)**

- **Requirement of transparency in software development process (accountability and traceability)**

- **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)**

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

Structure of Panel

- **10 min. presentation from each panelist**
  - **Current status and trend in global software engineering for each country**
  - **Points and views of each panelist for accountability and traceability**

- **Open questions**

Panelist

- **Kenichi Matsumoto, NAIST, Japan**
- **Katsuro Inoue, Osaka University, Japan**
- **Pankaj Jalote, IIT Delhi, India**
- **Dehua Ju, Shanghai Software Industry Association, China**
- **Harvey Siy, University of Nebraska, Omaha, USA**
- **Michael Barker, NAIST, Japan**

Let's Start!
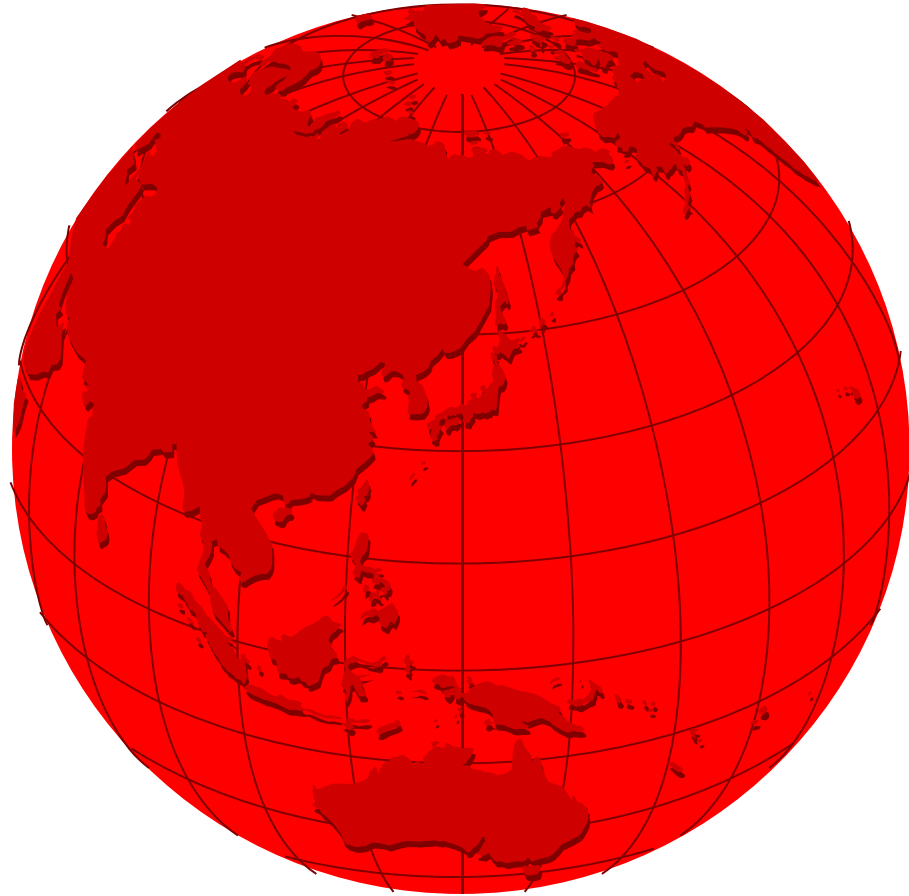
Issues Raised in ATGSE

- **Transparency of process**
  - How do we keep it in the global environment
- **Culture issue**
  - Does context difference cause problems in quality control?
- **Distributed software development/ Global software development**
  - Do we need different technologies?
- **Software tag**
  - Does a snapshot view of a project show the continuous characteristics of the organization?

Discussion Points

1. Transparency is really needed in GSE?

If needed,

2. Technology issues

    Key technologies?

    - Strong processes
    - Repository and its access control
    - Empirical data collection and analysis
    - Difference from distributed software development

3. Economic issues

    1. Overhead and return
    2. Who pays the cost?

4. Social issues

    1. Cultural difference causes troubles?
    2. Standardization and de-fact standard