

14th Asia-Pacific Software Engineering Conference (Final Summary)

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The Special Interest Group on Software Engineering
Information Processing Society of Japan (IPSJ/SIGSE)

Introduction

- This is the 3rd APSEC in Japan
 - ◆ APSEC'94 (Tokyo) and APSEC'99 (Takamatsu)
- APSEC is the leading international conference in software engineering and technology in the Asia-Pacific region and beyond
- Provides many chances for communications and collaborations among participants from all fields of SE
- Research topics cover all kinds of software engineering
 - ◆ 50+ presentations and 200+ participants recently
- This year's theme: **"Software Engineering Innovation Everywhere"**



Participants in APSEC 2007

- 250 people made their registrations on-line and onsite
- 232 attendee from several regions of the world (30 different countries)

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|----------------|------------------|----------------------|
| - Australia: 6 | - Ireland: 1 | - Singapore: 1 |
| - Canada: 1 | - Italy: 2 | - Sweden: 4 |
| - China: 15 | - Japan: 131 | - Taiwan: 8 |
| - Egypt: 1 | - Korea: 17 | - Thailand: 8 |
| - Finland: 1 | - Lithuania: 1 | - Turkey: 1 |
| - France: 2 | - New Zealand: 2 | - UK: 3 |
| - Germany: 2 | - Norway: 4 | - USA: 8 |
| - Hong Kong: 1 | - Pakistan: 1 | - Vietnam: 1 |
| - India: 1 | - Philippines: 1 | (Alphabetical order) |
| - Indonesia: 1 | - Poland: 1 | |
| - Iran: 4 | - Portugal: 2 | |



Paper Submissions

- Received 263 abstract submissions
- Had 214 final submissions from 39 different countries
 - ◆ 206 research papers and only 8 experience reports
- China: 40 (19%)
- Japan: 32 (15%)
- India: 19 (9%)
- Korea: 11
- Taiwan: 10, Pakistan: 10, USA: 10
- Iran: 8, Malaysia: 8, Thailand: 8, UK: 8
- Canada: 5, France: 5, Australia: 4, Sweden: 4, Germany: 3, New Zealand: 3
- Italy: 2, Netherlands: 2, Norway: 2, Spain: 2
- Argentina, Austria, Denmark, Egypt, Finland, Hamburg, Honk Kong, Ireland, Mexico, Myanmar, Philippines, Poland, Romania, South Africa, Switzerland, Tunisia, Ukraine, Vietnam



Review Process

- Each paper was carefully and rigorously reviewed by at least three reviewers
- The Program Committee consisted of 67 members
 - ◆ 52 members from Asia-Pacific region; 15 members from other regions
- The PC members provided devoted contributions for their reviews
 - ◆ Each PC member reviewed about 10 papers in 5 weeks
 - ◆ Over 642 reviews for the 214 papers and 100 e-mails for discussions
- Each submission was graded with one overall and 4 kinds of explanatory criteria (7: High – 1: Low)
 - ◆ Research papers: Originality, Technical quality, Presentation, Relevance
 - ◆ Experience reports: Impact, Correctness, Lessons learned, Relevance



Accepted Papers

- Accepted 67 papers from 21 different countries
- Selection was done based on overall evaluations and e-mail discussions
 - ◆ 32 papers (>5.0), 49 papers (>4.0)
- Japan: 16
- China: 13
- Korea: 4, Taiwan: 4
- Iran: 3, USA: 3
- Australia: 2, Canada: 2, France: 2, India 2, Italy: 2, New Zealand: 2, Norway: 2, Thailand: 2, Sweden: 2
- Denmark: 1, Finland: 1, Philippines: 1, Poland: 1, UK:1, Vietnam: 1

Topics	All	Accepted	Main Topic
Aspect-oriented software	15	6	3
Computer supported cooperative work	4	2	0
Configuration management and deployment	6	2	0
Distributed and parallel software	7	3	0
Empirical software engineering	19	8	2
End-user software	5	0	0
Formal methods	36	12	8
Global software development and outsourcing	5	2	1
Human-computer interaction	5	0	0
Knowledge based software engineering	11	2	0
Patterns and frameworks	10	2	0
Program comprehension and visualization	18	4	1
Programming languages	9	3	0
Requirements engineering	41	15	11
Reverse engineering	4	1	0
Secure software	6	4	3
Service-oriented software	14	3	2
Software architecture and design	36	5	2
Software components and reuse	19	6	4
Software engineering education	6	0	0
Software maintenance and evolution	31	7	4
Software metrics and measurement	31	8	7
Software policy and ethics	1	0	0
Software processes and workflows	29	10	6
Software product-line	10	4	1
Software quality management	21	5	1
Software testing and analysis	38	15	8
Tools and development environments	25	8	3
Ubiquitous and embedded software	10	5	0
Web-based systems	7	2	0
Total	479	144	67

Note: Authors could select one main topic and multiple related ones



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Program

- 2 Keynote Speeches and one Invited Talk in the morning
 - ◆ Dec 5: **Prof. Michael Jackson** (Specialising in Software Engineering)
 - ◆ Dec 6: **Prof. Hideyuki Tokuda** (Ubiquitous Network Society)
 - ◆ Dec 7: **Mr. Kazuhiro Tsuga** from Matsushita Electric Co., Ltd. (Digital CE Development)
- 20 Technical paper sessions (Dec 5 – Dec 7) in 3 parallel
- One Panel Discussion
 - ◆ “Accountability and Traceability in Global Software Engineering”
- 14 Research Posters (at Hall during Reception in the evening on Dec 5)
- 2 Tutorials (Dec 4)
- 6 Workshops (Dec 3 and Dec 4)
 - ◆ ATGSE, MESPUL, SPAQu, SOA, SEE, SPACE



Best Paper Award

- The Program Committee selected one best paper from among the 67 accepted ones
- Awards was presented at Banquet in the evening on Dec 6

Jacky W. Keung and Barbara Kitchenham

Optimising Project Feature Weights for Analogy-based
Software Cost Estimation using the Mantel Correlation



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