Proceedings

The 7th International Symposium on Future Software Technology

ISFST-2002

October 20-21, 2002 Tutorials at Xi'an, China October 23-25, 2002 Symposium at Wuhan, Chiina

Sponsored by

Software Engineers Association, Japan



(http://www.sea.jp/)

United Nations University / International Institute for Software Technology, Macau

Northwest University, Xi'an
Huazhong University of Science and Technology, Wuhan

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Editorial production by Kazunori SHIOYA *Program Co-chair of ISFST-2002* Compiled, Edited and Made in Japan.



Forward

This is the 7-th symposium dedicated to the future software technology, which has been held in China since 1996. It has been organized by SEA (Software Engineers Association of Japan), UNU/IIST (International Institute of Software Technology of United Nations University), and the local host academic organizations in China.

This year, Northwest University (NWU) in Xi'an and Huazhong University of Science and Technology (HUST) in Wuhan are our host.

The purpose of the Symposium is to review the recent advances in software technology, to exchange various technical and business information and to promote the sound industry-academia cooperation in future. It will provide a unique opportunity for practitioners, researchers and educators in software community to gather latest information and discuss the trends in the field.

Pre-Symposium Tutorials in Xi'an: Oct.20 - 21

This year, prior to the symposium at Wuhan, a series of pre-symposium tutorials on several hot topics will be held in Xian. The city is a famous ancient capital and now a center of high technology in western region of China.

The Symposium at Wuhan: Oct.23 - 26

At the PC meeting held in Lushan in August, 49 papers were selected from about 150 submissions for technical presentation.

The symposium features two keynote speakers: Professor Alan Davis (University of Colorad, USA) and Professor Keijiro Araki (Kyushu University, Japan).

The unique feature of the ISFST symposium is that the program includes informal but intensive working-group style discussion sessions besides regular paper presentations. We have provided poster sessions for this purpose this year.

Welcome to ISFST 2002.

Kazunori SHIOYA Soo-Yong Park Yanxiang He

Program Co-Chairs

Symposium Organization

Honorary Co-Chairs:

Huowang Chen (National Univ. of Defense Technology, China) Toshiharu Yamasaki (Former Chairman of SEA, Japan)

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Dehua Ju (ASTI Shanghai, Shanghai)

Kyo C. Kang (POSTECH, Korea)

Kiwamu Kase (RIKEN, Japan)

Gargi Keeni (TCS, India)

Jung-Ah Kim (KwanDong Univ., Korea)

Chang-Hwa Kim (KangNung National Univ., Korea)

Yue-Sun Kuo (Academia Sinica, Taipei)

Kei Kurakawa (NAIST, Nara)

Danning Li (Guizhou Academy of Sciences, China)

Yoshitaka Matsumura (SRA-KTL, Tokyo)

Deependra Moitra (Lucent Technologies, India)

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Songmao Zhang (IM-CAS, China)

Zhizhuo Zhao (Xiamen Univ., China)

Xichang Zhong (SEC-CAS, China)
Youliang Zhong (Hypersoft, Australia)
Zhiying Zhou (Tsinghua Univ., China)

Xi'an Tutorial staff:

Yunwei Dong (Xian Synchrobit, Xian) Gong Xiaoqing (Northwest University, Xian)

Secretary General

Kouichi Kishida (SEA/SRA-KTL, Tokyo) Rongrong Li (HUST, Wuhan)

Referee List

Akira Kumagai *	KyoChul Kang		
Beijun Shen	Li GuoHui *		
Chris George	Liu YunSheng *		
Deependra Moitra	Masao Ito *		
DooKwon Baik	Shihai Dong		
Gargi Keeni	SooHyun Park		
Hideo Nakano *	SooYong Park *		
Hiroyuki Fukase *	Tetsuo Tamai *		
JeongAh Kim	Toshitsugu Nomura		
Jiang Guo	Xiaoqing Gong *		
Jiro Tanaka	Yangxiang He *		
Ju Dehua *	Yoshitaka Matumura		
Kazunori Shioya *	YouLiang Zhong		
Kei Kurakawa *	YoungBae Oh		
Keijiro Araki	Yuesun Kuo		
Kouichi Kishida *	YunWei Don		

^{*} Attended PC meeting at Lushan in August 8-10.

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ISFST-2002

Tutorial Program at Xi'an

Management Track

Day 1: Oct. 20 (Sunday)

Understanding and Using SW-CMM for Process Improvement (full day)

Speaker: Sandip Bose (Tata Consulting Serves, India)

Day 2: Oct. 21 (Monday)

Best Practices in System Testing (half day)

Speaker: K.Mahesh Kumar and Gargi Keeni (Tata Consulting Serves, India)

SPI Activities in Japanese Software Industry

Speaker: Kazunori Shioya and Kouichi Kishida (SRA-KTL, Japan)

Technology Track

Day 1: Oct. 20 (Sunday)

Internet Security (half day)

Speaker: Hideo Nakano (Osaka City University, Japan)

A Feature-Oriented Method for Product Line Software Engineering (half day)

Speaker: Kyochul Kang and Jaejoon Lee (POSTECH, Korea)

Day 2: Oct. 21 (Monday)

Developer-Centered Software Development Tools

Speaker: Yunwen Ye (University of Colorado, USA)

What is UML? - From the Viewpoint of Software Engineering and Computer Science

Speaker: Akira Kumagai (PFU, Japan)

Report on ISFST 2002 Xi'an Tutorial

ISFST 2002 Xi'an Tutorial was held in Xi'an Software Park from October 20 to October 21. There were about 100 people participated in the Tutorial. Among these participants, about 20 were from outside China, including Japan, Korea, India, U.S.A, and Mexico. The others were from the IT companies, universities and institutes in Xi'an.

The opening ceremony of the Tutorial commenced in Synchro Building at 9 o'clock on October 20. Mr. Zhu Kexiao, vice president of Northwest University, gave the Tutorial an opening address. Mr. Kouichi Kishida, Ms. Li Xuemei, deputy major of Xi'an, Mr. Xu Kewei, director of Science and Technology Bureau of Xi'an, addressed the opening ceremony. In addition, Prof. Hao Kegang, board chairman of SynchroBit Company, and Prof. Zhou Mingquan, dean of Computer Science Department of Northwest University were invited to attend the opening ceremony.

After half hour's opening ceremony, the tutorial was performed in two parallel tracks, management track and technology track. The topics and speakers are as followings:

- 1. Opening Ceremony
- 2. Management Track
 - (1) Understanding and Using SW-CMM for Process Improvement Speaker: Gargi Keeni from TCS, India
 - (2) Best Practices in System Testing Speaker: K.Mahesh Kumar from TCS, India
 - (3) SPI Activities in Japanese Software Industry Speakers: Kouichi Kishida and Kazunori Shioya from SRA-KTL, Japan
- 3. Technology Track
 - (1) Internet Security
 - Speaker: Mr. Hideo Nakano from Osaka City University, Japan
 - (2) A Feature-Oriented Method for Product Line Software Engineering Speaker: Prof. Kyochul Kang and Mr. Jaejoon Lee from POSTECH, Korea
 - (3) Developer-Centered Software Development Tools Speaker: Yunwen Ye from University of Colorado, USA
 - (4) UML (What is UML? -- From the viewpoint of Software Engineering and Computer Science)

Speaker: Akira Kumagai from PFU, Japan

The Tutorial provided an opportunity for the participants to gather latest information and discuss the advances and the trends in IT field. It achieved great success, especially in exchange of various technical and business information.

Gong Xiaoqing
Northwest University, Xian

Note: Tutorial materials are not included in this after proceedings in the CDROM.

ISFST-2002

Final Technical Program (presented papers only)

Day 1: Oct. 23 (Wednesday)

08:30 - 08:50 "**Opening Ceremony**" (Auditorium, Building No.8)

08:50 - 10:10 **Keynote-1** (Auditorium, Building No.8)

Chair: Kazunori SHIOYA (SRA-KTL, Tokyo)

Abstraction and Modelling in Formal Approaches to System Development

Prof. Keijiro Araki (Kyushu University, Japan)

10:10 - 10:30 Break

10:30 - 12:00 **Technical Sessions 1A and 1B** (Building No.1)

Session 1A: Engineering (1): Software Development Paradigm

Chair: SooYong Park (Sogang University, Seoul)

S1A-2: Creating and Maintaining Sustainable Open Source Software Communities

Yunwen Ye* (University of Colorad, USA)

Kouichi Kishida (SRA-KTL, Tokyo)

Kumiyo Nakakoji, Yasuhiro Yamamoto (University of Tokyo, Tokyo)

S1A-3: Support for Joining in Open Source Software Development Projects Using Public Data Mitsunori FUJITA*, Kazuhiro Fujieda, Katsuhiko Gondow, Koichiro Ochimizu

(JAIST, Japan)

Session 1B: Internet (1): Security and Web-based Information Systems

Chair: Kazunori SHIOYA (SRA-KTL, Tokyo)

S1B-1: The Internet Key Exchange Protocol in IP Security

ZHU Jianming, SHI Tingjun, MA Jianfeng

(Xidian University, Xi'an and Chinese Academy of Sciences, Beijing)

12:30 - 14:00 Lunch

Session 2A: Engineering (2): Requirements, Product Line and Software Development Paradigm

Chair: Kei Kurakawa (NAIST, Nara)

S2A-1: A Conceptual Design Support System for Structuring and Visualizing Design Information Grounded by Scenarios

Kei Kurakawa*, Kumiyo Nakakoji (NAIST, Japan)

S2A-2: A Requirements Engineering Environment for Embedded Real-Time System -- SREE Shu Fengdi*, Wu Guoqing (Wuhan University, Wuhan)

Tetsuo Tamai (University of Tokyo, Tokyo)

S2A-3: Feature Specification Method in Product-Line Development

Jaeseung Song, Minsung Kim, Sooyong Park* (Sogang University, Seoul)

Session 2B: Internet (2): Web-based Information Systems and Security

Chair: Yukinori GOTO/SAKAMOTO (Kyushu University, Fukuoka)

S2B-1: Design of an Aspect-Oriented Software Architecture for Web-based Information System Atsushi Kumazaki*, Masami Noro, Han-Myung Chang, Yoshinari Hachisu (Nanzan University, Japan)

S2B-3: UML Based Web Services Application Development Method

Jintae Kim, Eunjeong Kim*, Mansoo Seo, Sooyong Park (Sogang University, Korea)

S2B-4: Event Information Inputting and Publishing System developed by Social Science Students using XML & XSLT

Akira INOUE (Konan University, Tokyo), Jun-ichi IGARI (Mainichi Newspapers, Tokyo), Ayako KOYAMA*, Shigeo KANEDA (Doshisha University, Kyoto)

16:00 - 16:30 Break

16:30 - 18:00 **Technical Sessions 3A and 3B** (Building No.1)

Session 3A: Distributed Computing and Mobile/Multi Agent Systems

Chair: Ju Dehua (ASTI, Shanghai)

S3A-1: Modeling and Verification of A Management System for TINA Network Object O-Hoon Choi, Doo-Kwon Baik (Korea University, Seoul)

S3A-2: Atomic Commitment for Distributed Real-Time Transactions YunSheng Liu, GuoQiong Liao (HUST, Wuhan)

S3A-3: Analyst-type Secretary Agent System for Schedule Management
Hiroshi Igaki*, Hajimu Iida, Ken'ichi Matsumoto (NAIST, Nara)
Makoto Sakai (SRA-KTL, Nara)

Session 3B: User Interface and Architecture

Chair: Kuo Yuesun (Academia Sinica, Taipei)

S3B-1: A Simplified Graph Model for User Interface Constraints
Chuan-chieh Jung (National Central University, Tao-yuan)
Tze-Heng Ma and Y. S. Kuo (Academia Sinica, Taipei)

S3B-2: Metadata Based Virtual Schema Supporting Decision Making JuHum Kweon, Doo-Kwon Baik (Korea University, Seoul)

S3B-3: A Decentralised Architecture for Workflow Support Jun Yan, Yun Yang and Gitesh K. Raikundalia (Swinburne University of Technology, Australia)

18:00 - 18:30 Break

18:30 - 20:00 **Reception**

Day 2: Oct. 24 (Thursday)

08:30 - 10:00 **Technical Sessions 4A and 4B** (Building No.1)

Session 4A: Formal Methods, System Evolution and Maintenance (1)

Chair: Syusaku IIDA (Sensyu University, Tokyo)

S4A-1: Support for Maintaining Distributed Component-based Systems Xuefen Fang*, Tetsuo Tamai (University of Tokyo, Japan)

S4A-2: A Technique for Extracting EJB Components from Servlets

DONG KWAN KIM, YOUNG JONG YANG, HYO TAEG JUNG (ETRI, Daejon)

S4A-3: Modeling and Safety Analysis of Moving Block Railway Interlocking System Nazir Ahmad Zafar* and Keijiro Araki (Kyushu University, Fukuoka)

Session 4B: Knowledge/Data Mining, Discovery and Engineering (1)

Chair: Miguel A. Serrano (CIMAT, MEXICO)

S4B-1: Digital Watermarking Algorithm Using Extraction Of Contours

Doo-Hyun Kim*, Yong-Sung Kim, OK-Chang, Cheol-Jung Yoo

(Chonbuk University, Korea)

S4B-2: Automatic Flowchart Layout for Program Visualization
Wei Lai (Swinburne University of Technology, Australia)
Mao Lin Huang* (University of Technology, Sydney)

S4B-3: Progressive Data Integration Based on Data Visibility

Dong Won Jeong, Doo-Kwon Baik* (Korea University, Korea)

10:00 - 10:30 Break

10:30 - 12:30 **Technical Sessions 5A and 5B** (Building No.1)

Session 5A: Formal Methods, System Evolution and Maintenance (2)

Chair: Jae Joon Lee (POSTECH, Korea)

S5A-1: Evolutionary Prototyping Technique using Abstract Interpretation in Java Hiroyuki Ozaki*, Katsuhiko Gondow, Takuya Katayama (JAIST, Japan)

S5A-2: Specification Technique of EJB-Based Application Using Design By Contracts Approach Hye-Min Noh*, Hyong-Jin Park, Cheol-Jung Yoo, Yong-Sung Kim and Ok-Bae Chang (Chonbuk University, Korea)

S5A-3: A Formal Refinement Method of Statechart Shusaku Iida* (Senshu University, Tokyo) Kokichi Futatsugi (JAIST, Japan)

Session 5B: Knowledge/Data Mining, Discovery and Engineering (2)

Chair: Kei Kurakawa (NAIST, Nara)

S5B-1: Commit Mechanism of Engineering Database Supporting Cooperative Design Transaction

Chen Guoning*, Taoshen Li, Guoqiong Liao (Guangxi University, Nanning)

S5B-2: Preserving Constraints in Mapping XML DTD to Relational Schema Hao Zhong*, Yunsheng Liu, Yi Wang, Mingjun Chen (HUST, Wuhan)

S5B-3: A document categorization algorithm using the fuzzy set theory and hierarchical structure of documents

Hye-Jue Eun*, Seok-Woo Han, Doo-Hyun Kim, Yong-Sung Kim, OK-Chang, Cheol-Jung Yoo (Chonbuk University, Korea)

12:30 - 14:00 Lunch

Poster Session: Tool Demonstration **CANCELED**

14:00 - 15:30 **Technical Paper Sessions 6A, 6B and 6C** (Building No.1)

Session 6A: Algorithms, Logics, Graph, Data Communication, Hardware (1)

Chair: Nazir Ahmad Zafar (Kyushu University, Fukuoka)

S6A-1: Improving Communication Quality with Reed Solomon Code in Internet Voice Broadcasting System

Shingo KASHIMA*, Yukinori Goto, Keijiro Araki (Kyushu University, Fukuoka)

Session 6B: Management: Process, Project, Testing and Quality (1)

Chair: Yoshitaka Matsumura (SRA-KTL, Tokyo)

S6B-1: AN EXPERIENCE REPORT ON USING THE TEAM SOFTWARE PROCESS Miguel A. Serrano*, Carlos Montes de Oca (CIMAT, Mexico)

S6B-2: Modeling of Software Configuration Management Processes by using Petri nets K. Mahesh Kumar*, Gargi Keeni (TCS, India)

S6B-3: On the Effectiveness of Genetic Operators in Adaptive Random Testing Sebastian NG*, F.C. Kuo, R.G. Merkel, T.Y. Chen (Swinburne University of Technology, Australia)

Session 6C: New Application Technologies and Domains (1)

Chair: Jiro Tanaka (Tsukuba Univ, Tsukuba)

S6C-1: Research of XML Wrapper System based on XML/CORBA (*presented as P3C-5*)

Xiu-fen Fu*, Wang Jing, Sun Jianfang, Yang Junchao

(Guangdong University of Technology, Guangzhou)

Lu Yansheng (HUST, Wuhan)

S6C-2: Organise Class Libraries based on Functionality

Huilin Ye* (Newcastle University, Australia)

Hanchang Liu (Southern Cross University, Australia)

S6C-3: UML-based Component Design Techniques

Eun Sook Cho* (Dongduk Women's University, Korea)

Soo Dong Kim, Sung Yul Rhew (Soongsil University, Seoul)

Chul Hong Kim (ETRI, Daejon)

16:00 - 17:30 **Technical Paper Sessions &A, 7B and 7C** (Building No.1)

Session 7A: Algorithms, Logics, Graph, Data Communication, Hardware (2)

Chair: Doo-Kwon Baik (Korea University, Seoul)

S7A-1: A Data Broadcast Scheduling Strategy for Real-time Read-only Transactions in A Mobile Environment

YANG Jincai, LIU Yunsheng, LI Guohui (HUST, Wuhan)

S7A-2: Some Design Issues for An Enterprise Geographic Information System

Wei Lai, Donggang Yu (Swinburne University of Technology, Australia)

Yongliang Zhong (Hypersoft, Austraila)

[Mao Lin Huang* (University of Technology, Sydney)]

Session 7B: Management: Process, Project, Testing and Quality (2)

Chair: Sebastian NG. (Swinburne University of Technology, Australia)

S7B-1: A systematic approach to plan the Inspection process

Ambrish K Srivastava, Gopesh Sharma and Gargi Keeni (TCS, India)

S7B-2: A Software Complexity Measurement Based on C++ Source Code for Reverse Engineering

Jong-Wan Kim*, Sung-Yul Rhew (Soongsil University, Korea), Sung-Eun Lee (Dong Seoul College, Korea)

S7B-3: An Automatically Generated Runtime Environment for Testing the Functionality of EJB Components

Jihyun Lee, Gyu-Sang Shin (ETRI, Korea)

Session 7C: New Application Technologies and Domains (2)

Chair: Akira Kumagai (PFU, Tokyo)

S7C-1: Object Oriented Programming in Spreadsheet

Jong-Myung Choi, Chae-Woo Yoo (Soongsil University, Korea)

Sae-Hun Yeom (Dong Seoul College, Korea)

S7C-2: GIGA: Graphical Definition of Production Rules

Hiroaki Kameyama*, Kazuhisa Iizuka, Buntarou Shizuki and Jiro Tanaka

(University of Tsukuba, Japan)

S7C-3: E-commerce and ontology

Jianming Yong (University of Southern Queensland, Australia)
Jun Yan (Swinburne University of Technology, Australia)

Evening Free

Day 3: Oct. 25 (Friday)

08:40 - 10:20 **Keynote-2**

(Auditorium, Building No.1)

Chair: Kazunori SHIOYA (SRA-KTL, Tokyo)

Requirements Triage:

"The Most Important Part of Software Engineering . . .

and the Most Ignored,"

Prof. Alan Davis (University of Colorado at Colorado Springs, USA)

10:20 - 10:30 Break

10:30 - 11:00 "Closing Ceremony"

(Auditorium, Building No.1)

Chair: Akira Kumagai

- General Co-Chair

Closing speech:

Kouichi Kishida (SEA/SRA-KTL, Japan)

- Symposium Secretary

Kazunori SHIOYA (SRA-KTL, Japan)

- Program Co-Chair

YunSheng Liu (HUST, China)

- General Co-Chair

Yanxiang He (Wuhan University, China)

- Program Co-Chair

[SooYong Park (Sogang University, Korea)

- Program Co-Chair (left)]

12:00 - 14:00 Lunch

Afternoon

Wuhan city tour *or* official **Excursion to Three Gorges** (2 nights, 3 days)

Evening

Free

NOTE: Finally, **41+1 papers were presented** (out of 49 papers were accepted), and **not presented papers are omitted from this program and the proceedings**.

*: speaker name reported by the Session Chairs for note.

The poster program is extracted from locally provided "program leaflet" and attached separately. Some are listed **in Chinese**.

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Brief reports from Session Chairs

Session 1A

SooYong Park chaired the session 1A. S1A-1 was not presented, other two papers were presented by the first author according to SooYong Park after the session.

-shioya

Session 1B

Kazunori SHIOYA was chaired the session 1A. The presented paper is S1B-1 only. Presenters of S1B-2 and S1B-3 were no show therefore not presented.

-shioya

Session 2A and 5B

I was the session chair of session 2A and 5B. All speakers gave their presentation at that time.

In the session 2A, Prof. Tanaka from Tsukuba Univ. was a char for my presentation 2A-1 instead of me.

--

Session #, Name, Affiliational country

2A-1 Kei Kurakawa, Japan

2A-2 Shu Fengdi, China

2A-3 Prof. Park, Korea

__

5B-1 Chen Guoning, China

5B-2 Hao Zhong, China

5B-3 Hye-Jue Eun, Korea

- Kei Kurakawa

Session 2B

no report from the session chair, however, I was attended 2B session. S2B-1, S2B-3 and S2B-4 papers were presented by the first author and co-author. S2B-2 paper author no showed was not presented by anybody.

-shioya

Session 3A

In the session 3A(?), Chaired by me, all 3 papers were presented.

Dehua Ju, ASTI Shanghai

Session 3B

All three papers of Session 3B were presented in English.

By the way, since my paper erroneously appeared in two sessions in the program, I went to another session for quite a while. When I found I should chair and go to Session 3B, the session had begun. I missed part of the presentation of 3B-2.

Y. S. Kuo

Session 4A

Thank you for your all the efforts for the symposium. I think it was really successful.

All the expected presenters presented their papers in the session.

Shusaku Iida

Session 4B

All three papers were presented for session 4B.

For 2 of the 3 papers it was the second author who presented the paper.

The authors were all on time before the session started, and all the session (presentations, questions, etc.) went well. The presentations did not last the whole 30 minutes (they were rather short, about 20 mins each) and the whole session (4B) was covered in about 60 minutes.

The presenters were quite professional and did a good job. I really enjoyed chairing session 4B.

Miguel A. Serrano

Session 5A

It was nice to see you in Xi'an and Wuhan and I really enjoyed the conference.

I chaired the session 5A: Formal Methods, System Evolution and Maintenance (2)

All the three authors:

Mr. Ozaki, Mr. Noh, and Mr. Iida presented their papers in English.

Jaejoon Lee

Session 5B

-> See the report of Session 2B

Session 6A

It is my pleasure to congratulate you on successful completion of ISFST2002. It was nicely managed. Also I would like to say a lot of thanks for your cooperation throughout the process from paper submission to end of ISFST2002 program.

Regarding your mail, I was the chair of session 6A. Here is the report of this session.

Paper Presented: 6A-1

Paper 6A-2 Absent

Paper 6A-3 Absent

Total three paper were there in session 6A. Only one was presented as reported above and the other two presenters were absent.

Nazir A. Zafar

Session 6B

I am Yoshitaka MATSUMURA, and was the session chair of 6B.

Fortunately all the papers of 6B, 6B-1, 6B-2 and 6B-3 were presented.

Yoshitaka Matsumura

Session 6C

The first paper was NOT presented. The second and the third paper were presented.

S6C-1 Research of XML Wrapper System based on XML/CORBA

Xiu-fen Fu - Not presented

S6C-2 Huilin - Presented

S6C-3 Eun Sook - Presented

Jiro Tanaka

My presented session number was 3C-5. (Poster session)

I do not know my paper 1011C have twice listed in ISFST2002 program booklet till receive your E-mail. So I do not presented twice.

Fu Xiufen

Session 7A

In the session 7A,

first two papers(7A-1, 7A-2) were presented, but the last paper(7A-3) was NOT presented.

Doo-Kwon BAK.

Session 7B

I was chairing the session 7B and the following three papers were presented:

7B-1, 7B-2, 7B-3

Sebastian Ng

Session 7C

I was chair of the 7C session.

Fortunately we had three presenters in this session.

Cheers!

--- bear

Summary from a Program Co-Chair

The PC meeting at Lushan in August accepted 49 papers, there were 68 (46 submitted to Japan, 18 submitted to China, and 4 late papers) papers were rated based on referee reports and judged. 47 final papers were submitted by the final due (2 dropped). At the symposium in Wuhan, presented technical papers were 41 finally. Locally corrected 79 abstract papers were not assigned to the referees because of too short to be judged, however, Wuhan local strongly requested to invite them to the symposium, so we decided to recommend these authors to join the poster sessions.

The listed posters in the locally made "program booklet" were 107 and assigned into two parallel poster sessions. There were much duplication of papers between technical and posters. Also, most of the poster presenters were no show, as audiences may notice. This made some confusion among the presenters and local staffs. For instance, session 2S which I had attended shortly was a perfect Chinese session presented and communicated in only Chinese, only 2 paper out of 8 were presented and some joined from other session, even from next session 3D, This is chaotic situations. The poster program attached in this after proceedings is a "planed as is" version that means nobody checked which presentations were presented or not.

Since there are no clear agreement or discussion for the posters at the Lushan PC meeting, because of "time out" strongly requested from Wuhan local, it looked that nobody checked and managed these poster sessions officially. So, actual number of presented papers were not counted therefore unknown. To avoid this in next symposium, the poster session should also be programmed and managed for the next symposium. ISFST staff listing should be included in the "program booklet" as in the ISFST-2002 official Web and it should be up to date.

The session chair assignment of this year was made by local staff and was "random" assign regardless of their entry. It should be assigned with acknowledgement (OK) from chair candidate with explanation of session management rule at least prior to start and the chairs should report after their session to the PC chairs. We should discuss these issues at least by or/and at the PC meeting. This is the program committee's duty.

Unfortunately, we failed this year both for advertisement and management. Absences of the Russian speakers are very sorry, however, we have attendees from 7 regions, there are main land China, Taiwan, Macau, Korea, Japan, Australia, USA and new from Mexico, attendees are expanding. There are many attractive places for study, visiting and sight seeing in China. We could expect more attendees might come next symposium, if we propose more attractive program and provide handy information of the venue area. So the planning and managing properly is the key to success the symposium. Let us make next ISFST-2003 in Xi'an to be more successful!

Kazunori SHIOYA

A Program Co-Chair of ISFST-2002

Summary from a General Co-Chair

First of all I deeply appreciate all of you who participated ISFST2002 and cooperated with ISFST2002. We have done it successfully though we have met some issues to be solved every day. But it's over and it became to be our good memory.

Here I'd like to write summary of this symposium as one of general chairs. It would be useful for the next that will be held in Xi'an in 2003.

At first I consider about the framework of ISFST2002. There are mainly three parts, the first one is Tutorial in Xi'an, the second one is Symposium and the third one is optional tours. It's very nice to provide good chances for ISFST2002 participants to join different activities. Especially it's great to have over one hundred participants at Tutorial in Xi'an who came from outside from China and China. We could exchange and communicate many things through these three parts of ISFST2002 not only technical issue but also our culture and national backgrounds and economics. It's very useful to understand each other maturely.

Secondly I show the scale of this symposium. The participant of the Tutorial was about 100. The total number of ISFST2002 symposium participants is 104. There were 50 participants from outside China such as Sweden, Mexico, USA, Australia, India, Pakistan, Korea, Macao, Taiwan, Japan and 54 participants from China. It's a good size to discuss deeply. It's interesting to show that 90% of participants are from academic and the only 10% of participants are from industries. Especially in China over 95% of participants are from Universities. The people from industries are mainly from India and Japan.

Thirdly I describe the brief history of ISFST. We started this symposium to exchange software technologies between China and Japan in Shanghai in 1987. The hosts of symposia were SEA Japan and some affiliations in China for example Shanghai Software Center and Beijing University. We have held symposia every year at Chinese cities in principle. We changed this symposium name as "*** International CASE Symposium (xICS)" and called for participants from all over the world especially focus on Asia countries from 1991. For 'CASE' technology was very popular in the Software Engineering area at that time. We change the name of symposia to ISFST in 1997. For 'CASE' technology has already downed and we have to extend the scope of symposia wider and wider to cover many new activities and technologies.

You may understand the outline of ISFST now. Finally I describe the meaning of ISFST from my experiences and perspective. All information technologies have been owing to USA from the beginning of the computer invention including hardware and software. We Asian people have been always merely users of the information technologies. But time is changing. The information technologies began to cover not only civilization but also our culture such as our daily life. The civilization means social institutions like automatic control of mass production, control systems, commercial systems, banking systems, communications including inter-net and etc. The culture

means our spiritual activities like learning, thinking, many kinds of art such as music and movies, literatures, inter-communication among countries and etc.

There need strong connection between the information technologies and culture when we cover our culture with software and computers. There are many cultures in Asia, because there are many races in Asia. They have their languages and cultures. We have to invent our information technologies to understand our Asian cultures each other. We can't import it from outside of Asia. So we have to understand each other among Asian people focus on the future software technologies. ISFST has been providing a good chance to exchange many things. I call it as 'DIGITAL SILK ROAD for Asian people'. Heavier the traffic is, better 'DIGITAL SILK ROAD is. It was proved as 'SILK ROAD' in Tang Dynasty about 1500 years ago. I am convinced that new things will be created in the place where the traffic be beyond heavy. Let's make such situations.

We expect that new ideas, new technologies, new young researchers, new relationships among countries, new business chances will be brought by ISFST in the future. It's my hope and dream.

Thanks again for all participants and all staffs of ISFST2002.

I hope to see you again next year in Xi'an.

Cheers.

Akira Bear Kumagai

A General Co-Chair of ISFST-2002.

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