Call for Participation – ASIAN'97

Asian Computing Science Conference

Kathmandu, Nepal, December 9–12, 1997

The third Asian Computing Science Conference, ASIAN'97, will be held in Kathmandu on December 9–12, 1997 at the Hotel Yak & Yeti.

The series of annual Asian Computing Science Conferences (ASIAN for short) was started in 1995 to provide a forum for researchers in computer science from the Asian region and to promote interaction with researchers from other regions. The first conference was held in Bangkok, organized by the Asian Institute of Technology. The second conference, ASIAN'96, was held in Singapore, organized by National University of Singapore. Both were held in partnership with INRIA, France, and the UNU/IIST, Macau. The proceedings were published as Lecture Notes in Computer Science 1023 and 1179 from Springer-Verlag. Their scope was a broad coverage of Computer Science, though there was a focus on the more conceptual areas of algorithms, programming, concurrency and parallelism, networking and security.

The 1997 conference will continue to emphasize the conceptual areas of Computer Science. The following themes represent the areas of focus for this year:

- Programming Languages and Compilation Technology
- Formal Reasoning and Constraints
- Real-Time Computing
- Network/Mobile Computing

Of the 94 papers submitted, the Program Committee has selected 24 regular papers and 10 poster papers. The conference will have Prof. Michael Rabin (Harvard University and Hebrew University of Jerusalem) as the keynote speaker, and Dr. Nicholas Ayache (INRIA, Sophia Antipolis) and Prof. Randy Bryant (CMU, Pittsburgh) as invited speakers.

Conference Web Page: More information, including the conference program, local arrangement information and registration forms, will be available from `http://www.ueda.info.waseda.ac.jp/asian97`.

Pre- and Post-Conference Activities: The 10th Asian School on Computer Science, organized by AIT and INRIA, will be held in Kathmandu during December 5–8. Details will be made available at `http://www.cs.ait.ac.th/school97`. Following the main ASIAN'97 conference held on December 9–11, half-day workshops will be held on December 12.

Registration: The registration form is available from the conference web page. Registration by email with a followup by fax to the registration office is preferable. The deadline of early registration is **November 15**.
Note: Flights to and from Kathmandu should be reserved as early as possible. In case you have problem in getting your reservation, please contact `asian97@cs.ait.ac.th for` *assistance.*

Local Organizing Committee:

Pramod Pradhan, **Chairperson** (ICIMOD and AITAA, Nepal)
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Suresh Regmi (CAN, Nepal)
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National University of Singapore (NUS)
International Centre for Integrated Mountain Development (ICIMOD)
Computer Association of Nepal (CAN)
AIT Alumni Association, Nepal Chapter

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ASIAN'9X **Steering Committee:**

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Gilles Kahn (INRIA, France)
Jean-Jacques Levy (INRIA, France)
R. K. Shyamasundar (TIFR Bombay, India)
Kazunori Ueda (Waseda U., Japan)

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Deepak Kapur (SUNY Albany, USA)
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R. K. Shyamasundar, **Co-Chair** (TIFR, India)
Ambuj Singh (UCSB, USA)
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Martin Wirsing (U. Munich, Germany)
Nor A. Yahaya (Telekom Malaysia, Malaysia)
Roland H. C. Yap (NUS, Singapore)
Zhou Chaochen (UNU/IIST, Macau)

ASIAN'97 CONFERENCE and WORKSHOP REGISTRATION

Last Name: ____

First Name: ____ (Prof/Dr/Mr/Miss/Ms)

Affliation: ____

Address/Mailstop: ____

____

City: ______________________ State: ______________________

Country: ______________________ Zip: ______________________

Daytime Phone: ______________________ Fax: ______________________

Email: ____

REGISTRATION FEES: Early registrations for the conference must be sent to the address below by Nov 15, 1997. Registrations after Nov 15, will be treated as on-site only.

ASIAN'97 Registration, C/O Dr. Roland Yap,
Department of Information Systems and Computer Science, National University of Singapore,
Lower Kent Ridge Road, Singapore 119260, Republic of Singapore
E-mail: `ryap@iscs.nus.edu.sg` Telephone: +65 874-2972 Fax: +65 779-4580

Full registration for the conference: *Note that all rates are in* *SINGAPORE* *dollars* (US$1.0 = approximately S$1.5)

Advance (until Nov 15)		Late/On-Site (after Nov 15)	
___Non-student	S$450	___Non-student	S$550
___Student	S$150	___Student	S$250

Half-day workshop ONLY registration (per workshop):

___Non-student S$50 ___Student S$25

Workshop announcements and registration will be coming soon. Conference fees include conference attendance, refreshments at breaks, conference dinner and one copy of the proceedings. Student registration includes all of the above (proceedings is likely), except conference dinner. Student registrants must provide a copy of a valid student ID card or an official letter from their department. *Workshop attendance is included in the full (non-student and student) fees.*

SPECIAL MEAL REQUIREMENTS:

___Vegetarian ___Muslim ___Others (please specify): ______________________

METHOD OF PAYMENT: Payments must be remitted using one of the following (please check one):
(Payment by check and bank should be made to the "**National University of Singapore**". If you have difficulty with getting a draft in Singapore dollars, you may send us a draft in a major currency but please add US$20 or equivalent, to cover exchange rates and bank charges, but please note this is the least preferable option.)

___ Enclosed check (drawn from a Singapore bank in Singapore dollars only)

Bank ______________________________________ Check# ______________________

___ Enclosed bank draft (in Singapore dollars only)

Bank ______________________________________ Draft# ______________________

___ Charge to Credit Card (please fill out the following and sign):

Amount to be charged: ______________________ Mastercard: ___ Visa: ___

Name on Card: ____

Card #:______________________________ Exp. Date: ____________

Authorized Signature:______________________________ Date Signed: ________________

REFUNDS: Written requests for refunds must be received by the registration chair no later than Nov 18, 1997. Refunds are subject to a $50 processing fee. All no-show registrations will be billed in full.

ASIAN'97
Tentative Technical Programme

9 December 1997

(Registration will be available on December 8, 5pm–8pm and during the conference.)

09:00–09:15 : **Opening Session**

09:15–10:30 : **Keynote Address**

Michael O. Rabin
Correctness of Programs and Protocols through Randomization

10:30–11:00 : **Tea**

11:00–12:30 : **Session 1**

Stephan Merz
Rules for Abstraction

Robert Büssow, Wolfgang Grieskamp
Combining Z and Temporal Interval Logics for the Formalization of
Properties and Behaviors of Embedded Systems

R. Ramanujam
Rules for Trace Consistent Reasoning

12:30–14:00 : **Lunch**

14:00–15:30 : **Session 2**

Sasikumar Punnekkat, Rob Davis, Alan Burns
Sensitivity Analysis of Real-Time Task Sets

Shin-Mu Tseng, Y. H. Chin, Wei-Pang Yang
Dynamic Multiprocessor Scheduling for Supporting Real-Time Constraints

Zhiyi Huang, Wan-Ju Lei, Chengzheng Sun, Abdul Sattar
Heuristic Diff Acquiring in Lazy Release Consistency Model

15:30–16:00 : **Tea**

16:00–17:30 : **Session 3**

Tetsuya Mizutani, Shigeru Igarashi, Kohji Tomita, Masayuki Shio
Representation of Discretely Controlled Continuous Systems in
Software-Oriented Formal Analysis

R. Wetprasit, A. Sattar, L. Khatib
A Generalized Framework for Reasoning with Multi-Point Events

Yan Georget, Philippe Codognet, Francesca Rossi
Implementing Constraint Retraction for Finite Domains

"Namaste Reception" by by ICIMOD

10 December 1997

09:00–10:30 : **Session 4**

Thomas Plagemann, Vera Goebel
INSTANCE: The Intermediate Storage Node Concept

Li Xuandong, Dang Van Hung, Zheng Tao
Checking Hybrid Automata for Linear Duration Invariants

Erich Mikk, Yassine Lakhnech, Michael Siegel
Hierarchical Automata as Model for Statecharts

10:30–11:00 : **Tea**

11:00–12:15 : **Invited Lecture I**

Nicholas Ayache
Medical Image Analysis and Simulation

12:15–13:45 : **Lunch**

13:45–15:15 : **Session 5**

Masateru Harao
Proof Discovery in LK System By Analogy

Nobuhiro Inuzuka, Hirohisa Seki, Hidenori Itoh
Efficient Induction of Executable Logic Programs from Examples

B. Le Charlier, C. Lecĺere, S. Rossi, A. Cortesi
Automated Verification of Behavioural Properties of Prolog Programs

15:15–16:45 : **Poster Session** (Over Tea)

(The poster papers will be posted from the beginning of the conference.
The details of Poster papers are listed at the end of the programme.)

Excursion to Bhakatapur and Banquet

11 December 1997

09:00–10:15 : **Invited Lecture II**

Randal E. Bryant and Miroslav N. Velev
Verification of Pipelined Microprocessors by Comparing Memory Execution Sequences in Symbolic Simulation

10:15–10:45 : **Tea**

10:45–12:15 : **Session 6**

Gérard Boudol
Typing the Use of Resources in a Concurrent Calculus

Paul Roe
An Imperative Language with Read/Write Type Modes

Kazuhiko Ohno, Masahiko Ikawa, Masahiro Goshima, Shin-ichiro Mori, Hiroshi Nakashima, Shinji Tomita
Efficient Goal Scheduling in Concurrent Logic Language using Type-Based Dependency Analysis

12:15–13:30 : **Lunch**

13:30–15:00 : **Session 7**

Ryu Hasegawa
An Analysis of Divisibility Orderings and Recursive Path Orderings

T. B. Dinesh, Susan M.Üsküdarlı
Share-Where Maintenance in Visual Algebraic Specifications

Satoshi Fujita
A Fault Tolerant Broadcast Scheme in Star Graphs

15:00–15:30 : **Tea**

15:30–17:00 : **Session 8**

Ken-etsu Fujita
Calculus of Classical Proofs I

Richard Watson, Eric Salzman
Tracing the Evaluation of Lazy Functional Languages: a Model and its Implementation

Y. Ben Asher, E. Stein
Basic Results in Automatic Transformations of Shared Memory Parallel Programs into Sequential Programs

17:00–17:15 : **Closing Session**

Poster Papers

Mauri Kaipainen, Pantelis Papadopoulos, Pasi Karhu
Recurrent Oscillatory Self-organizing Map: Adapting to Complex Environmental Periodicities

C. Lursinsap, K. Kanchanasut, T. Siriboon
Basic Binary Decision Diagram Operations for Image Processing

Tatsuo Nakajima
Adaptive Object Storage System for Mobile Computing Environments

Morioka Tomohiko
Structure of User Interface Module for Practical Internet Messages

Mihal Bad̆onski, Mirjana Ivanović, Zoran Budimac
Software Specification Using *LASS*

Eiichi Horita, Ken Mano
Nepi^2: a Two-Level Calculus for Network Programming Based on the π-Calculus

Man Lin, Jacek Malec, Simin Nadjm-Tehrani
On Semantics of Reactive Rule-Based Systems

Jean-Raymond Gagne, John Plaice
The Non-Standard Semantics of Esterel

Shigeru Kusakabe, Kentaro Inenaga, Makoto Amamiya
Hybrid Support for Lenient Implementation of Array-Comprehension

Mouhssine Bouzoubaa
Solver for Hierarchical CSP Containing Several Constraint Types and Multi-output Constraints