
PROGRAM

PLENARY SESSIONS Ho-O-no-Ma, Tokyo Prince Hotel 2F

June 1 (Monday)

10:00 - 12:00 **Opening Session**

Greetings

Tadashi Sekizawa *President of ICOT*

Hidehiko Tanaka *Conference Chairperson*

Opening Address

Kozo Watanabe *Minister of International Trade and Industry*

Keynote Speeches

Perspective on Information Technology Policy

Hideaki Kumano *Director General of Machinery and Information Industries Bureau, MITI*

Launching the New Era

Kazuhiro Fuchi *Director of ICOT Research Center*

Report from the Program Committee

Hozumi Tanaka *Program Chairperson*

13:30 - 14:30 **Invited Lecture**

Chairperson: Hidehiko Tanaka, *Univ. of Tokyo, Japan*

Algorithmic & Knowledge Based Methods

Do They "Unify"?

—With Some Programme Remarks for UNU / IIST—

Dines Bjørner, *Director of International Institute for Software*

Technology, The United Nations University, Macau

15:00 - 17:30 **General Report on ICOT Research and Development**

Chairperson: Kazuhiro Fuchi, *ICOT, Japan*

Overview of the Ten Years of the FGCS Project

Takashi Kurozumi, *Deputy Director(General), ICOT Research Center*

Summary of Basic Research Activities of the FGCS Project

Koichi Furukawa, *Deputy Director(Research), ICOT Research Center*

Summary of the Parallel Inference Machine and its Basic Software

Shunichi Uchida, *Manager, Research Department, ICOT Research Center*

June 2 (Tuesday)

9:00 - 10:00 **Invited Lecture**

Chairperson: Koichi Furukawa, *ICOT, Japan*

The Role of Logic in Computer Science and Artificial Intelligence
J.A. Robinson *Professor, Syracuse University, U.S.A.*

10:30 - 12:00 **Report on ICOT Research Results**

Chairperson: Shunichi Uchida, *ICOT, Japan*
Koichi Furukawa, *ICOT, Japan*

Parallel Inference Machine PIM
Kazuo Taki, *First Research Laboratory, ICOT*

Operating System PIMOS and Kernel Language KL1
Takashi Chikayama, *Second Research Laboratory, ICOT*

13:30 - 17:20 **Report on ICOT Research Results (Continued)**

Towards an Integrated Knowledge-Base Management System
-Overview of R&D on Databases and Knowledge Bases in the FGCS Project-
Kazumasa Yokota and Hideki Yasukawa, *Third Research Laboratory, ICOT*

Constraint Logic Programming System
-CAL, GDCC and Their Constraint Solvers-
Akira Aiba and Ryuzo Hasegawa, *Fourth Research Laboratory, ICOT*

Parallel Theorem Provers and Their Applications
Ryuzo Hasegawa and Masayuki Fujita, *Fifth Research Laboratory, ICOT*

Natural Language Processing Software
Yuichi Tanaka, *Sixth Research Laboratory, ICOT*

Experimental Parallel Inference Software
Katsumi Nitta, Kazuo Taki and Nobuyuki Ichiyoshi, *Seventh Research Laboratory, ICOT*

TECHNICAL PLENARY SESSIONS Ho-O-no-Ma (Room B, C)

June 5 (Friday) [Afternoon]

14:00 - 15:00

Invited Lecture

Chairperson: Hozumi Tanaka, *Tokyo Institute of Technology, Japan*

Programs are Predicates

C.A.R. Hoare *Professor, Oxford University, U.K.*

15:30 - 18:00

Panel Discussion

A Springboard for Information Processing in the 21st Century

Chairperson: Robert A. Kowalski *Professor, Imperial College, U.K.*

Panelists: Hervé Gallaire *G.S.I., France*

Ross Overbeek *Argonne National Laboratory, U.S.A.*

Peter Wegner *Professor, Brown University, U.S.A.*

Koichi Furukawa *ICOT, Japan*

Shunichi Uchida *ICOT, Japan*

CLOSING ADDRESS

Hiroichi Hiroshige *Executive Director of ICOT, Japan*

Table of Technical Sessions

June 3 (Wednesday)				June 4 (Thursday)				June 5 (Friday)			
FOUNDATIONS	ARCHITECTURES & SOFTWARE	APPLICATIONS & SOCIAL IMPACTS	ICOT SESSIONS	FOUNDATIONS	ARCHITECTURES & SOFTWARE	APPLICATIONS & SOCIAL IMPACTS	ICOT SESSIONS	FOUNDATIONS	ARCHITECTURES & SOFTWARE	APPLICATIONS & SOCIAL IMPACTS	ICOT SESSIONS
Room A	Room B	Room C	Room D	Room A	Room B	Room C	Room D	Room A	Room B	Room C	Room D
Reasoning about Programs	Hardware Architecture and Evaluation	Constraint Logic Programming	Parallel VLSI-CAD and KBM Systems	Semantics of Logic Programs	Extension of Logic Programming	Knowledge-Based Systems	Generic Information Processing	Functional Programming and Constructive Logic	Programming Environment	Parallel Applications	Parallel Inference Machine
9:00											9:00
11:00	Break										
11:30	Invited Paper	Qualitative Reasoning		Invited Paper (Room B)	Task Scheduling and Load Analysis (Room A)	Logic Reasoning		Temporal Reasoning	Production Systems	Invited Paper	
12:30	Analogy										
14:00	Lunch										
14:00	Abduction (1)	AND-Parallelism OR-Parallelism	Knowledge Representation	Parallel Operating System, FINOS	Concurrency	Natural Language Processing	Constraint Logic Programming in Parallel	Invited Lecture			
15:00								Break			
15:30								Break			
16:00	Abduction (2)	Implementation Techniques	Panel Discussion: Future of Next Generation Applications		Databases and Distributed Systems	Knowledge Support Systems	Natural Language Processing	Panel Discussion A Springboard for Information Processing in the 21st Century			
17:30								Closing Address			
18:00								Closing Address			