

Proceedings

**The Second International Workshop on  
Next Generation  
Information Technologies and Systems**

27-29 June 1995  
Naharia, Israel

**Editors: Amihai Motro and Moshe Tennenholtz**

# Message From the Chairs

As information technology advances, requirements of and expectations from information systems change rapidly. This requires researchers and developers to continuously focus on the next generation of information systems. The NGITS Workshop provides an international forum for discussing issues and solutions related exclusively to next generation information systems and the technologies that would make them possible. The first workshop took place in June 1993. The success of that workshop, and the responses of its participants convinced us that such a forum serves an important purpose. Hence this second meeting, in what we hope will develop into a regular series.

In response to the call for papers we received approximately 75 submissions. The overall quality of the submissions was impressive. Each paper was reviewed by several members of the program committee and then discussed by means of electronic mail. The best 23 papers were then selected for presentation at the workshop and for inclusion in these proceedings.

The program of NGITS 95 consists of presentation of papers, discussions, and invited talks. It is divided into eight sessions on the following topics:

- Next Generation Databases
- Multi Database Systems
- Cooperation and Collaboration
- Resource allocation, Planning and Design
- Information Gathering
- User Interfaces
- Multimedia and Natural Languages
- Integration of Heterogeneous Information

We wish to thank the authors of all submitted papers for their interest in NGITS 95, and the members of the program committee for their valuable work in selecting the best papers. We would also like to extend our thanks to several external reviewers for their assistance. All these individuals contributed greatly to the quality of this workshop.

Special thanks to Nilly Schnapp for taking care to local arrangements and financial administration, and to Arnon Licht for his help in the administration of the review process and in the production of these proceedings.

Finally, we are pleased to acknowledge our main sponsor: the S. Neeman Institute, and our additional sponsors: the Technion – Israel Institute of Technology, and the Adams Institute at Tel-Aviv University.

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## Keynote Lectures

The Logic of Enterprise Models  
Mark Fox, University of Toronto  
The Future of Graphical User Interfaces  
Ben Shneiderman, University of Maryland  
Dynamics of Active Database Rules: Models and Refinements  
Carlo Zaniolo, University of California, Los Angeles

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