

Fuji International Workshop on

FUNCTIONAL AND LOGIC PROGRAMMING

Masato Takeichi
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LOGIC PROGRAMMING**

Fuji International Workshop on
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LOGIC PROGRAMMING**

Susono, Japan July 17–19, 1995

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Foreword

Functional programming and logic programming are established paradigms of programming. Although ideas of functional and logic programming emerged from different research communities with differing motivations, it is becoming clear that many features of both programming paradigms are common. Moreover researchers of both programming communities now see that formal methods with which we reason about programs will be shared. A kind of convergence of both paradigms can be seen here. This has been also witnessed in the forthcoming new issue of a journal dealing with both functional and logic programming, and integration of both programming paradigms. It seems that we have a right momentum to start a workshop that deals with both functional and logic programming with an emphasis on extending the present frameworks to those that embrace each other.

With this realization, Fuji International Workshop on Functional and Logic Programming was conceived. It is also a successor of the informal workshops jointly held by university researchers at Tohoku, Tokyo and Tsukuba for several years, that focused on logic of programs, functional programming and rewriting.

The workshop was held on July 17-19, 1995 at Fuji Institute of Education in the foot of Mt. Fuji. To secure the atmosphere of intensive discussions the number of participants was limited to 50 pre-registrants coming from eight countries.

This book consists of 22 papers presented at the workshop; two invited papers and 20 submitted papers in response to the call-for-papers distributed in Internet. The submitted papers were refereed by the members of the program committee and experts recommended by the members. The program committee hope that the authors of the papers will publish their full papers in technical journals for wider dissemination of the research results presented in their papers.

The papers in this book cover wide spectrum of researches in functional and logic programming. We classified the papers into groups under the following headings:

- Functional Language Issues

- Functional-Logic Language Issues

- Program Transformation and Specialization

- Implementation Techniques

This spectrum manifests strong research activities in the area of functional and logic programming. The organizing committee would like to thank Japan Society for Software Science and Technology for the support of the workshop.

August 10, 1995
Masato Takeichi and Tetsuo Ida

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