November 16, 1977

Professor Leonard Uhr
University of Wisconsin-Madison
Computer Science Department
1210 West Dayton Street
Madison, Wisconsin 53706

Dear Len:

Please excuse the delay in answering your letter of October 19th. The outline of your new book looks generally good to me and I would like to proceed toward a consideration of it for the new Series in Artificial Intelligence that has been initiated under my editorship at McGraw Hill. The cognizant editor at McGraw Hill would be either Rose Ciofolo or Charles Stewart. I am sending each a copy of your letter. I would appreciate receiving the existing portions of the manuscript for a preliminary look.

I would like to thank you for thinking about us in connection with this book and I intend getting back to you soon after receiving your material.

Best wishes,

Edward A. Feigenbaum
Professor and Chairman

EAF/ls1

cc: Rose Ciofolo
    Charles Stewart
October 19, 1977

Professor Edward Feigenbaum
Computer Science Department
Stanford University
Palo Alto, California

Dear Ed:

I have just completed the almost-final draft of a book, entitled "Toward the Production of Thought," that attempts to give a coherent picture of research in cognitive modeling and artificial intelligence, and to examine this research from the point of view of philosophy, psychology, and the neurosciences.

Do you think you might be interested in examining the manuscript, or portions (about half the book has been typed and proofed) for possible publication by McGraw-Hill? During the next few months I would like to finish the final draft, which will include a number of minor and major changes I have already made, changes suggested by editors and other readers that seem to me desirable, and missing figures, references and appendices.

The Table of Contents is enclosed.

Cordially,

Leonard Uhr
LU:bk

Enclosure
Toward the Production of Thought

Leonard Uhr

Table of Contents

Preface

1. What do we mean by Computers, Intelligent Thought, a Theory/Model of Mind/Brain?
   1. Toward "Intelligent" "thinking" computer programs: the present, origins and directions for progress.
   2. What are computers? what can they do? how do they do it?

II. A Survey of Computer Programs for Separate Components of Intelligence
   3. Deduction, problem-solving and cognition
   4. Some processes closely related to thinking: parsing, information retrieval and sham conversation; poetry and art; motivation and personality
   5. Perception and concept formation: the recognition and naming of a complex object or class
   6. Biological networks and evolutionary systems

III. Programs for more Wholistic, Integrated, Flexible, Adaptive Systems
   7. Answering questions and conversing about semantic and perceptual networks of information
   8. Toward wholistic integrated flexible systems
   9. Learning: Induction and discovery from experience vs. explicitly formatted advice

IV. Psychology, Neurosciences, Philosophy and Models of the Mind
   10. What do psychology and the neurosciences want of a model of the mind?
   11. Some philosophical issues that models of intelligence may help us to solve

V. Developing Cannons for Progress
   12. Building models of intelligence should be guided by the hypothetico-deductive method of science
   13. Toward better, more general and more powerful models
   14. Is modelling intelligence the modern alchemy?
   15. How might we best proceed?