

**MEMORIAL RESOLUTION OF THE FACULTY
OF THE UNIVERSITY OF WISCONSIN-MADISON**

ON THE DEATH OF PROFESSOR EDWARD F. MOORE

Edward F. Moore, age 77, passed away on June 14, 2003 in Madison, Wisconsin. He was born November 23, 1925 in Baltimore, Maryland. He enlisted in the Navy during World War II, and received a BS degree from Virginia Polytechnic Institute in 1947 and a PhD in mathematics from Brown University in 1950. He married Elinor Constance Martin on July 29, 1950, in Union, New Jersey and they subsequently had three daughters, Nancy, Shirley, and Martha. During the period 1950-1951 Ed worked on the electronic computer project (ILLIAC) at the University of Illinois, Urbana. From 1951 to 1956 Ed worked at Bell Telephone Laboratories in Chatham, New Jersey. He served as a visiting professor at MIT and a visiting lecturer at Harvard during 1961-62. Ed and his family moved to Madison in 1966, where he worked as a professor of mathematics and computer sciences at the University of Wisconsin until his retirement in 1985.

Ed was one of the founders of Automata Theory. He introduced what has become known as the Moore Machines, which are Finite Automata with output associated with each state. A well known algorithm for finding the minimum state equivalent Finite Automaton is also due to Ed. His "Gedanken" (thought) paper, which appeared in the Annals of Mathematics in 1956 together with his work on switching theory and logic, initiated a vigorous research area. Ed proposed an elegant form of a universal Turing machine at a time when few people had a good grasp of the meaning of Turing machines as models of computers. In the abstract of his recruitment talk at Madison on April 29, 1966, Ed wrote: "Animals and plants can reproduce themselves, but it was only recently shown that machines can be made which also reproduce themselves..... Other kinds of self-reproducing machines will be described, and one simple mechanical model, with no electrical or magnetic complications, will be there in working order for the audience to inspect and operate."

Professor Edward F. Moore contributed significantly to the early stages of development of the Department of Computer Sciences. The department and the university owe Professor Moore a debt of gratitude for his valuable contributions.

MEMORIAL COMMITTEE
Jin-Yi Cai
Larry Landweber
Olvi Mangasarian, chair