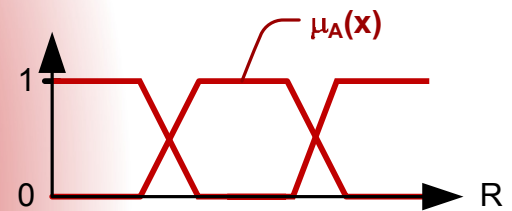# Prof. Lotfi A. Zadeh
Father of Fuzzy Logic

Prior to publication of his first paper on fuzzy sets in 1965—a paper which was written while Prof. Zadeh was serving as Chair of the Department of Electrical Engineering at UC Berkeley—he had achieved both national and international recognition. His principal contributions were:

- development of a frequency-domain-based theory of time-varying networks;

- a generalization of Wiener's theory of prediction (with J.R. Ragazzini);

- initiation of system theory; a theory of nonlinear filtering;

- the Z-transform method for the analysis of sampled-data systems (with J.R. Ragazzini); and

- development of the state space theory of linear systems, published as a co-authored book with C.A. Desoer in l963.

Fuzzy Membership Function

$\mu_A(x)$

Linguistic Variable and Approximate Reasoning

Theory of Possibility based on Fuzzy Sets

Information Granularity and Fuzzy Sets

Computational Theory of Perceptions and Precisiated Natural Language, based on Computing with Words

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Noteworthy Statistics

Number of citations (in Google Scholar) for:

Prof. Zadeh's original 1965 "Fuzzy Sets" paper: **26,000**
Prof. Zadeh's papers: **88,700**

Number of Fuzzy Logic related patents or applications:

USA: more than   **18,000**

Japan: more than   **22,000**

22 Scientific Journals with "Fuzzy" in their title, e.g.,

IEEE Transactions on Fuzzy Systems
Fuzzy Sets and Systems
Journal of Intelligent & Fuzzy Systems

About Prof. Lotfi A. Zadeh

Director of BISC (Berkeley Initiative in Soft Computing)
Professor Emeritus, University of California, Berkeley
Fellow of IEEE, AAAS, ACM, AAAI, and IFSA
Member of the National Academy of Engineering
Foreign Member of 6 Academy of Sciences

Single-authored over 200 papers
Serves on the editorial boards of over 70 journals.

Alumnus of the University of Tehran, MIT, and Columbia University
25 honorary doctorates

Recipient of numerous prestigious awards, e.g.:
- the Honda Prize by the Honda Foundation, 1989
- the ASME's Rufus Oldenburger Medal, 1993
- the IEEE Medal of Honor, 1995
- the IEEE Millennium Medal, 2000
- the ACM Allen Newell Award
- the Egleston Medal, Columbia University, New York, 2007
- the Franklin Institute Medal, Philadelphia, 2009