

Lotfi Zadeh: a Pioneer in AI, a Pioneer in Statistical Analysis, a Pioneer in Foundations of Mathematics, and a True Citizen of the World

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Abstract Everyone knows Lotfi Zadeh as the Father of Fuzzy Logic. There have been - and will be - many talks on this important topic. What I want to emphasize in this talk is that his ideas go way beyond fuzzy logic: he was a pioneer in AI; he was a pioneer in statistical analysis; and he was a pioneer in foundations of mathematics. My goal is to explain these ideas to non-fuzzy folks. I also want to emphasize that he was a **True Citizen of the World**.



Vladik Kreinovich received his MS in Mathematics and Computer Science from St. Petersburg University, Russia, in 1974, and PhD from the Institute of Mathematics, Soviet Academy of Sciences, Novosibirsk, in 1979. From 1975 to 1980, he worked with the Soviet Academy of Sciences; during this time, he worked with the Special

Astrophysical Observatory (focusing on the representation and processing of uncertainty in radioastronomy). For most of the 1980s, he worked on error estimation and intelligent information processing for the National Institute for Electrical Measuring Instruments, Russia. In 1989, he was a visiting scholar at Stanford University. Since 1990, he has worked in the Department of Computer Science at the University of Texas at El Paso. In addition, he has served as an invited professor in Paris (University of Paris VI), France; Hannover, Germany; Hong Kong; St. Petersburg, Russia; and Brazil. His main interests are the representation and processing of uncertainty, especially interval computations and intelligent control. He has published six books, eighteen edited books, and more than 1,300 papers. Vladik is a member of the editorial board of the international journal "Reliable Computing" (formerly "Interval Computations") and several other journals. In addition, he is the co-maintainer of the international Web site on interval computations <http://www.cs.utep.edu/interval-comp> .

Vladik is Vice President for Publications of IEEE Systems, Man, and Cybernetics Society, Vice President for Publicity of the International Fuzzy Systems Association (IFSA), Vice President of the European Society for Fuzzy Logic and Technology (EUSFLAT), Fellow of International Fuzzy Systems Association (IFSA), Fellow of Mexican Society for Artificial Intelligence (SMIA); he served as President of the North American Fuzzy Information Processing Society 2012-14; is a foreign member of the Russian Academy of Metrological Sciences; was the recipient of the 2003 El Paso Energy Foundation Faculty Achievement Award for Research awarded by the University of Texas at El Paso; and was a co-recipient of the 2005 Star Award from the University of Texas System.

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