

# Fuzzy Logic, Neural Networks, and **Soft Computing**

LOTFI A. ZADEH

In retrospect, the year 1990 may well be viewed as the beginning of a new trend in the design of household appliances, consumer electronics, cameras, and other types of widely used consumer products. The trend in question relates to a marked increase in what might be called the Machine Intelligence Quotient (MIQ) of such products compared to what it was before 1990. Today, we have microwave ovens and washing machines that can figure out on their own what settings to use to perform their tasks optimally; cameras that come close to professional photographers in picture-taking ability; and many other products that manifest an impressive capability to reason, make intelligent decisions, and learn from experience.

There are many factors that underlie the marked increase in MIQ. It is the author's opinion that the most important factor is the use of what might be referred to as *soft computing*—and, in particular, fuzzy logic—to mimic the ability of the human mind to effectively employ modes of reasoning that are approximate rather than exact.

In traditional—hard—computing, the prime desiderata are precision, certainty, and rigor. By contrast, the point of departure in soft computing is the thesis that precision and certainty carry a cost and that computation, reasoning, and decision making should exploit—wherever possible—the tolerance for imprecision and uncertainty.

A case in point is the problem of parking an automobile. Most people are able to park an automobile quite easily because the final position of the vehicle and its orientation are not specified precisely. If they were, the

difficulty of parking would grow geometrically with the increase in precision and eventually would become unmanageable for humans. What is important to observe is that the problem of parking is easy for humans when it is formulated imprecisely and difficult to solve by traditional methods because such methods do not exploit the tolerance for imprecision.

The exploitation of the tolerance for imprecision and uncertainty underlies the remarkable human ability to understand distorted speech, decipher sloppy handwriting, comprehend nuances of natural language, summarize text, recognize and classify images, drive a vehicle in dense traffic and, more generally, make rational decisions in an environment of uncertainty and imprecision. In effect, in raising the banner of "Exploit the tolerance for imprecision and uncertainty," soft computing uses the human mind as a role model and, at the same time, aims at a formalization

of the cognitive processes humans employ so effectively in the performance of daily tasks.

As was observed earlier, the year 1990 may be viewed as a turning point in the evolution of the MIQ of consumer products. The basis for this observation are the following facts.

The industrial applications of fuzzy logic starting in the early 1980s—of which the prime examples are the F.L. Smith cement kiln and the Sendai subway system designed by Hitachi—laid the groundwork for the use of fuzzy logic in the design and production of high-MIQ consumer products. The first such product—a fuzzy-logic-controlled shower head—was announced by Matsushita in 1987. This was followed by the first fuzzy-logic-based washing machine—also designed by Matsushita—in 1989.

In 1990, high-MIQ consumer products employing fuzzy logic began to grow in number and visibil-

# Fuzzy Logic Neural Networks And Soft Computing

**Julia Schneider**



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