
February 1999

Rock River Valley Section
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Event

Sense

The Institute of Electrical and Electronics Engineers, Inc.

Joint IEEE/ASME Sections Meeting

Computing With Words: A New Paradigm

When February 25, 1999

Where Rock Valley College, Technology Center, Room 117. I-90 to Riverside Blvd., exit and go west to Mulford Rd. Go south to first light, turn east into RVC. Follow road to left to last building.

Agenda 6:00 PM Social Time
6:30 PM Dinner
7:30 PM Program

Program Computing, in its usual sense, is centered on manipulation of numbers and symbols. In contrast, computing with words is a methodology in which the objects of computation are words and propositions drawn from a natural language, e.g., small, large, far, heavy, etc. Computing with words is inspired by the remarkable human capability to perform a wide variety of physical and mental tasks without any measurements and any computations. Familiar examples of such tasks are parking a car or driving in heavy traffic. Underlying this remarkable capability is the brain's crucial ability to manipulate perceptions -- perceptions of distance, size, weight, color, speed, time,

direction, force, number, truth, likelihood and other characteris-

**Dr. Lotfi Zadeh is
acknowledged as
the Father of Fuzzy**

tics of physical and mental objects. Manipulation of perceptions plays a key role in human recognition, decision and execution processes. As a methodology, computing with words provides a foundation for a computational theory of perceptions -- a theory which may have an important bearing on how humans make -- and machines might make -- perception-based rational decisions in an environment of imprecision, uncertainty and partial truth. This talk will outline a computational theory of perceptions.

Speaker LOTFI A. ZADEH is a professor in the Graduate School, Computer Science Division, Department of EECS, University of California, Berkeley.

He is a Fellow of the AAAS, ACM and AAI. He is a member of the National Academy of En-

gineering and a Foreign Member of the Russian Academy of Natural Sciences. He is a recipient of the IEEE Education Medal, the IEEE Richard W. Hamming Medal, the IEEE Medal of Honor, among others. He has published extensively on a wide variety of subjects relating to the conception, design and analysis of information/intelligent systems, and is serving on the editorial boards of over fifty journals.

Door Prizes Sponsored by RRVS

Meal Dinner will be buffet style and will consist of chicken and beef, veggie's, salad, dessert. Please make your reservations by calling **Gloria at 815-226-5247 by Tuesday, February 23, (please include your e-mail address in the information you provide Gloria - thanks)**. The cost of the **dinner** is **\$5** for IEEE **members** and **\$17** for **non-members**. Unemployed members may call one of the officers for special arrangements.

Note The meeting is open to the general public. You need not be an IEEE member. Guests are welcome. However, please call to enable us to make appropriate arrangements.

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Time-Sensitive Material

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