

features of digital images) in the 1960's and 1970's formed the foundation for a generation of industrial vision inspection systems that have found widespread applications from the automotive to the electronics industry. His research has also been directly integrated into many defense electronics systems (target recognition and guidance systems), remote sensing systems, and biomedical image analysis systems for automated diagnostic procedures and medical research. He was an advisor to the Federal government on advanced reconnaissance systems and robotic systems, most recently participating in a National Academy of Sciences assessment of the state of the art of autonomous robotic navigation systems.

He was a Fellow of the Institute of Electrical and Electronics Engineers (1971), won its Emanuel Piore Award in 1985, and received its Third Millennium Medal in 2000; he was a founding Fellow of the American Association for Artificial Intelligence (1990) and of the Association for Computing Machinery (1993); he was a Fellow of the Washington Academy of Sciences (1988), and won its Mathematics and Computer Science Award in 1988; he was a founding Director of the Machine Vision Association of the Society of Manufacturing Engineers (1985-8), won its President's Award in 1987 and was a certified Manufacturing Engineer (1988); he was a founding member of the IEEE Computer Society's Technical Committee on Pattern Analysis and Machine Intelligence (1965), served as its Chairman (1985-7), and received the Society's Meritorious Service Award in 1986, its Harry Goode Memorial Award in 1995, became a Golden Core member of the Society in 1996, and received its Distinguished Service Award for Lifetime Achievement in Computer Vision and Pattern Recognition in 2001; he received the IEEE Systems, Man, and Cybernetics Society's Norbert Wiener Award in 1995; he received an IEEE Standards Medallion in 1990, and the Electronic Imaging International Imager of the Year Award in 1991; he was a founding member of the Governing Board of the International Association for Pattern Recognition (1978-85), served as its President (1980-2), won its first K.S. Fu Award in 1988, and became one of its founding Fellows in 1994; he received the Information Science Award from the Association for Intelligent Machinery in 1998; he was a Foreign Member of the Academy of Science of the German Democratic Republic (1988-92), and is a Corresponding Member of the National Academy of Engineering of Mexico (1982).



Prof. Azriel Rosenfeld
(1931-2004)

Memorial Service

Wednesday, April 28, 2004
11:30 a.m. - 12:30 p.m
Room 1115 Computer Science
Instructional Center



Opening Remarks

Prof. Larry Davis

William E. Kirwan

Chancellor, University System of Maryland

Rama Chellappa

Director, CFAR

Yiannis Aloimonos

Prof. of Computer Science and UMLACS

Hanan Samet

Prof. of Computer Science and UMLACS

Ben Shneiderman

Prof. of Computer Science and UMLACS

Narendra Ahuja

*Prof. of Electrical Engineering
University of Illinois and alumni*

Angela Wu

*Prof. of Computer Science
American University and alumni*

Janice Perrone

Administrative Assistant, CFAR

Andy Pilipchuck

Hardware Engineering (Retired), CFAR

Prof. Larry Davis

Closing Remarks

Azriel Rosenfeld (1931-2004)

AZRIEL ROSENFELD was a tenured Research Professor, a Distinguished University Professor, and Director of the Center for Automation Research at the University of Maryland in College Park, where he also held affiliate professorships in the Departments of Computer Science, Electrical Engineering, and Psychology. He held a Ph.D. in mathematics from Columbia University (1957), rabbinic ordination (1952) and a Doctor of Hebrew Literature degree (1955) from Yeshiva University, and honorary Doctor of Technology degrees from Linkoping University, Sweden (1980) and Oulu University, Finland (1994) an honorary Doctor of Humane Letters degree from Yeshiva University (2000), and an honorary degree from the Technion, to be conferred in 2004.

Dr. Rosenfeld was widely regarded as the leading researcher in the world in the field of computer image analysis. Over a period of nearly 40 years he made many fundamental and pioneering contributions to nearly every area of that field. He wrote the first textbook in the field (1969); was founding editor of its first journal (1972); and was co-chairman of its first international conference (1987). He published over 30 books and over 600 book chapters and journal articles, and directed nearly 60 Ph.D. dissertations. In 1985 he served as chairman of a panel appointed by the National Research Council to brief the President's Science Advisor on the subject of computer vision; he has also served (1985-8) as a member of the Vision Committee of the National Research Council. In honor of his 65th birthday, a book entitled "Advances in Image Understanding — A Festschrift for Azriel Rosenfeld", edited by Kevin Bowyer and Narendra Ahuja, was published in 1996. In honor of his 70th birthday and retirement, a book entitled "Foundations of Image Understanding", edited by Larry S. Davis, was published in 2001. Dr. Rosenfeld also made important contributions to mathematics, and founded the subfield of fuzzy digital geometry.

Dr. Rosenfeld's research on digital image analysis (specifically on digital geometry and topology, and on the accurate measurement of statistical