

Azriel Rosenfeld

Prepared by Ben Shneiderman



Azriel Rosenfeld (1931-2004)



Azriel Rosenfeld

Founding director of the [Center for Automation Research](#), at the University of Maryland in College Park.

Prof. Rosenfeld's research interests include many aspects of image analysis and computer vision. Examples of his work are summarized in many of the Center's [Technical Report Abstracts](#).

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THE WASHINGTON POST

FRIDAY, FEBRUARY 27, 2004

OBITUARIES

Azriel Rosenfeld Dies at 73; Digital Image Analysis Expert

By PATRICIA SULLIVAN
Washington Post Staff Writer

Azriel Rosenfeld, 73, whose research into computer image analysis is now used in the automotive, electronics and defense industries, died of cancer Feb. 23 at a hospice in Baltimore.

Dr. Rosenfeld, who was the first director of the Center for Automation Research at the University of Maryland, was the leading researcher in the field of computer image analysis. He wrote the first textbook in the field, was founding editor of its first journal and co-chairman of its first international conference. He also founded the subfield of fuzzy digital geometry.

His research into digital image analysis in the 1960s and 1970s formed the foundation for a generation of industrial vision inspection systems that are now widely used in the automotive and electronics industries. His research has been integrated into defense electronics, particularly in advanced reconnaissance, target recognition and guidance systems; remote sensing systems; and biomedical image analysis for automated diagnostic procedures.

Born in New York City, Dr. Rosenfeld received an ordination as a rabbi at Yeshiva University in 1952 and a doctorate in Hebrew literature in 1955. He also received a doctorate in mathematics from Columbia University in 1957.

After working in research and academic positions in New York,

Dr. Rosenfeld moved to Silver Spring in 1964 to join the University of Maryland faculty. He became a research professor in 1966, director of the Center for Automation Research in 1968 and a distinguished university professor in 1985. He held affiliate professorships in the departments of Computer Science, Electrical Engineering and Psychology.

Dr. Rosenfeld published more than 30 books and more than 600 book chapters or journal articles.

He was a fellow of the Institute of Electrical and Electronics Engineers, won its Emanuel R. Piore Award in 1985 and received its Third Millennium Medal in 2000. He was a founding fellow of the American Association for Artificial Intelligence and the Association for Computing Machinery. He was past president of the Association

of Orthodox Jewish Scientists. Among his many scientific and academic awards were three honorary doctoral degrees from Swedish, Finnish and Israeli universities.

He was Torah reader at Young Israel Shomrei Emet Synagogue in Silver Spring for more than 30 years. Upon his retirement in 2001, Dr. Rosenfeld moved to Baltimore, where he was Torah reader at Agudath Israel Synagogue and was rabbinic adviser to torah.org, an Internet-based Jewish outreach organization.

Survivors include his wife of 44 years, Eve Rosenfeld, of Baltimore; three children, Eli Rosenfeld of Highland Park, N.J., David Rosenfeld of Ramat Beit Shemesh, Israel, and Tova Marken of Baltimore; his father, Rabbi Abraham H. Rosenfeld of Baltimore; and 13 grandchildren.



CENTER FOR AUTOMATION RESEARCH, UNIVERSITY OF MARYLAND

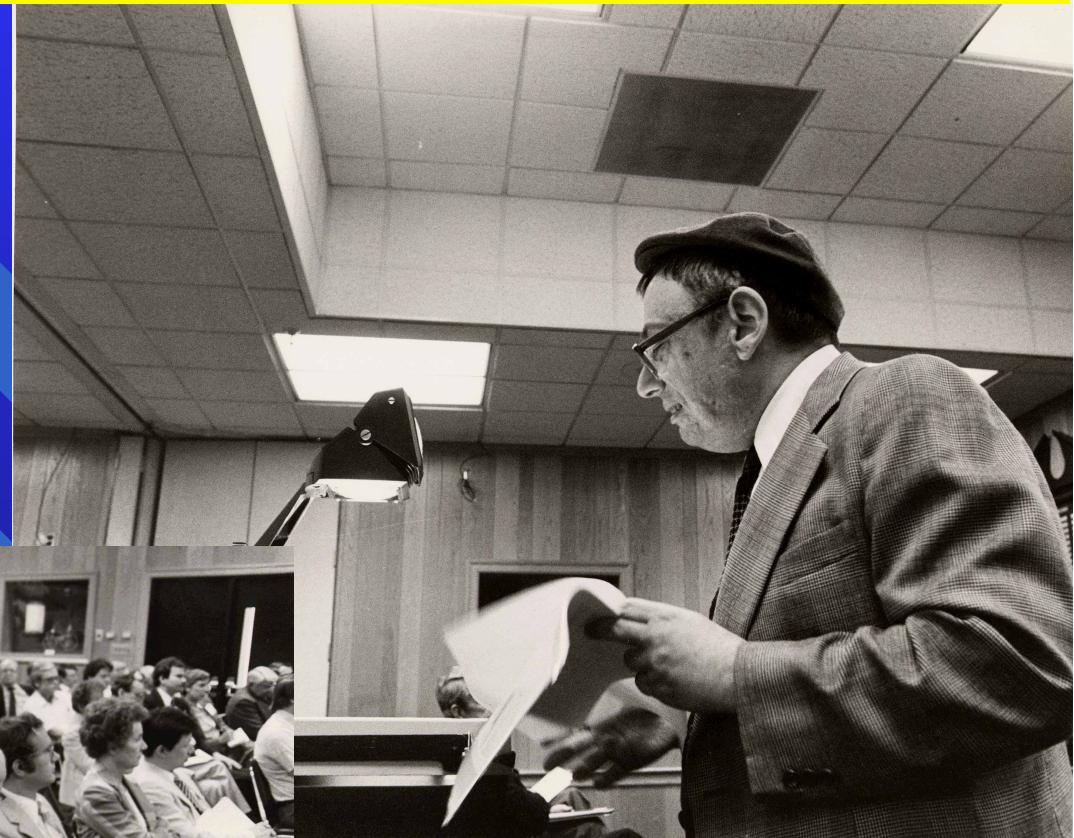
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- Inauguration of
Center for
Automation Research
1983



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- Computer Vision Lab 30-year recognition
- VP Eileen Nagel & Dean Richard Herman

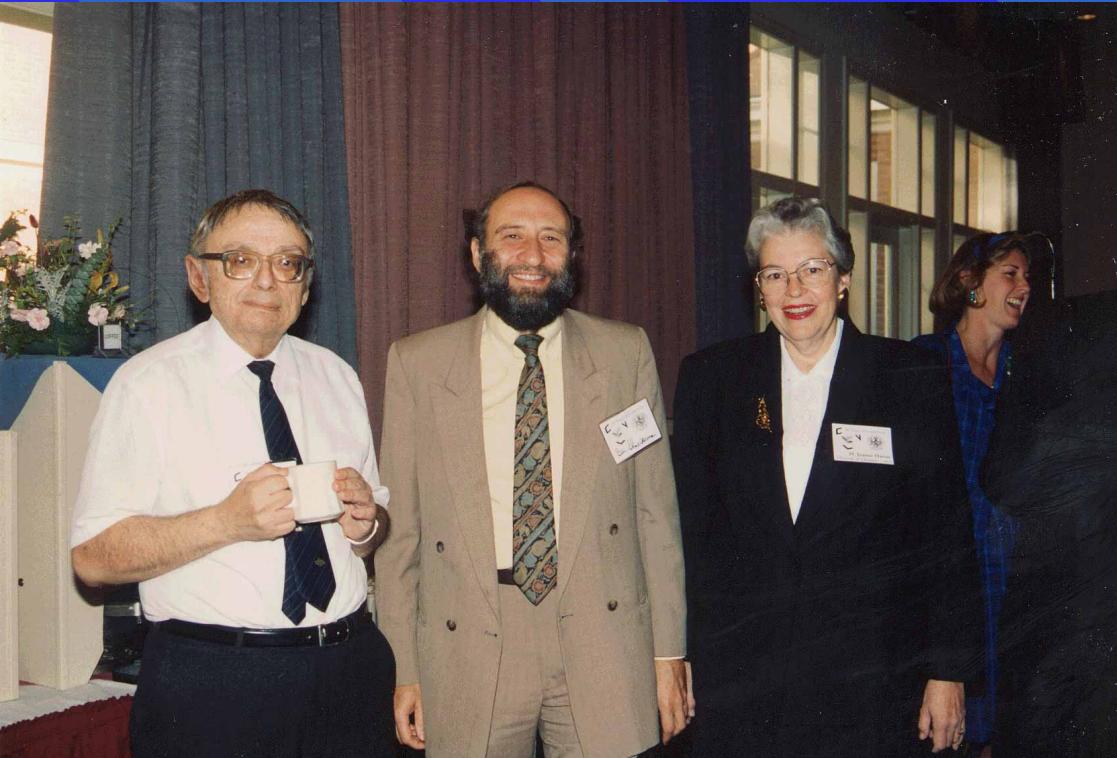
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Digital Picture Processing

Second Edition
Volume 1

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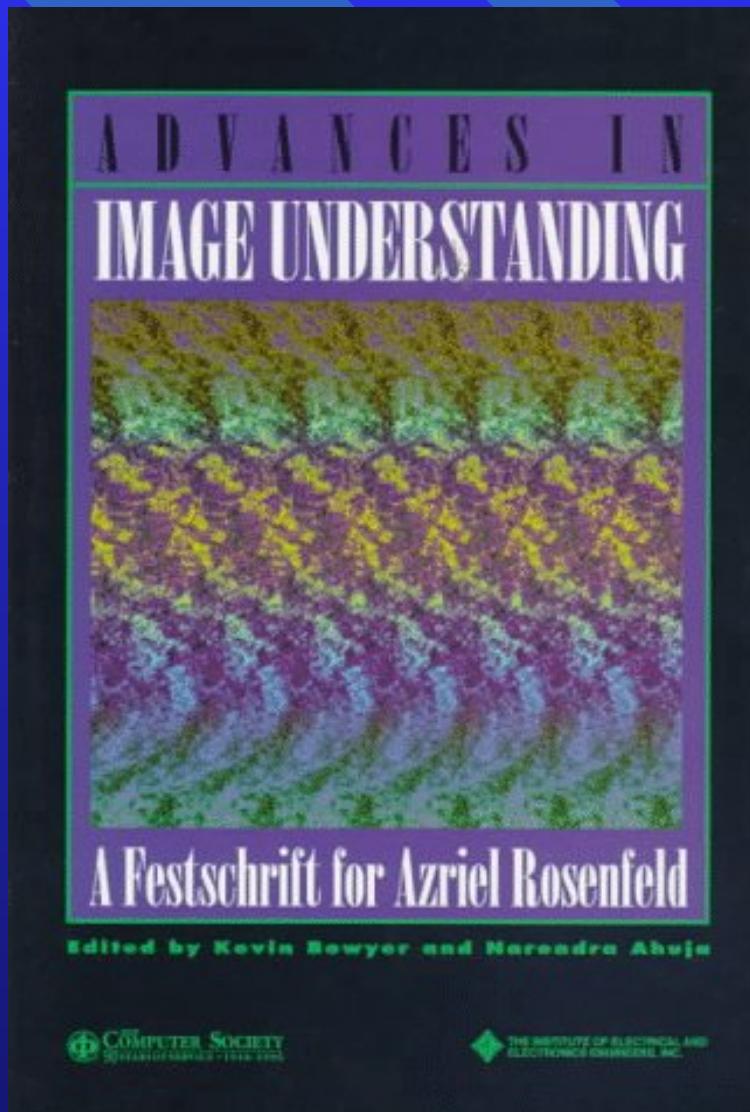
Petra Perner
Azriel Rosenfeld (Eds.)

Machine Learning and Data Mining in Pattern Recognition

LNCS 2734
Third International Conference, MLDM 2003
Leipzig, Germany, July 2003
Proceedings



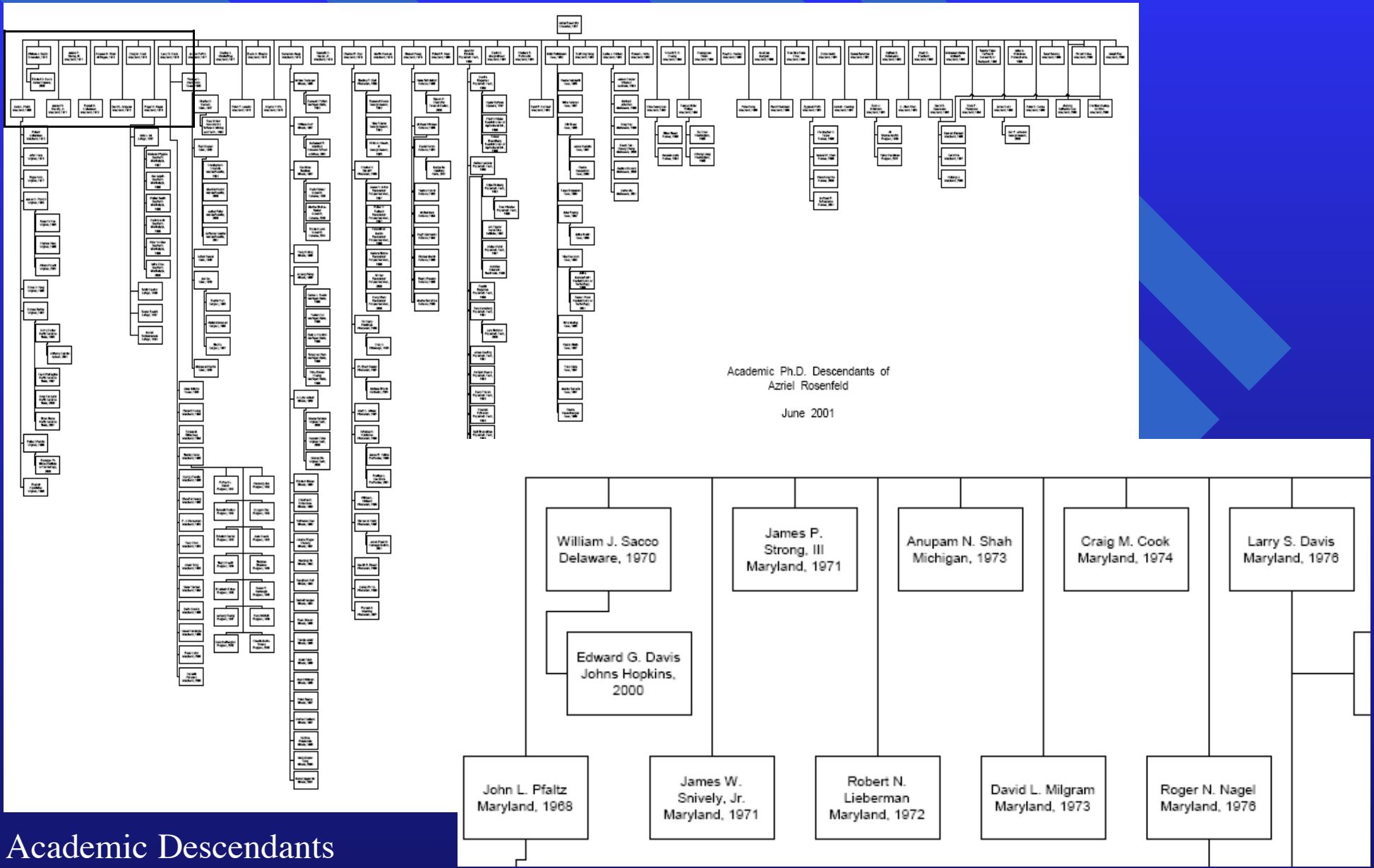
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Distinguished university professor and founding director of the Center for Automation Research at the University of Maryland and holds affiliate professorships in the departments of Computer Science and Psychology and the College of Engineering.

He holds a Ph.D. in mathematics from Columbia University, a doctor of Hebrew literature degree from Yeshiva University, and two honorary doctorates. An ordained rabbi, Rosenfeld is widely regarded as the world's leading researcher in the field of computer image analysis; he wrote the first textbook in the field, was founding editor of its first journal and co-chairman of its first international conference.

Prof. Rosenfeld has published over twenty-five books and contributed over five hundred book chapters and journal articles. He is a fellow of the Institute of Electrical and Electronics Engineers, the American Association for Artificial Intelligence, the Association for Computing Machinery, the Washington Academy of Sciences, the Machine Vision Association of the Society of Manufacturing Engineers, and the International Association for Pattern Recognition. He has won the latter's premier academic achievement awards, as well as those of the IEEE Computer Society's Committee on Pattern Analysis and Machine Intelligence, IEEE Systems, Man, and Cybernetics Society and the International Association for Pattern Recognition.