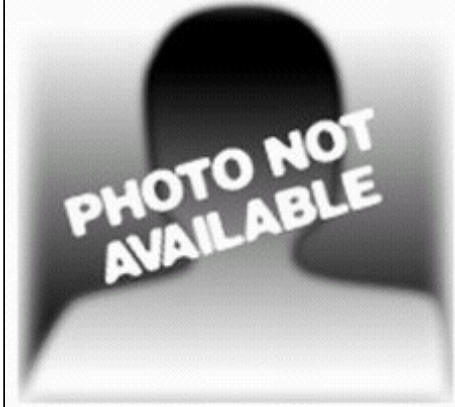

Moshe Gur, Ph.D.
Associate Professor

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B.A. 1968 Biology, Hebrew University, Jerusalem

Ph.D. 1976 University of Minnesota, USA

Field of research:

Psychophysics of the visual system; artificial vision

About:

Professor Moshe Gur was born in Israel in 1945. He joined the Technion-IIT in 1976 and was appointed Associate Professor in Biomedical Engineering in 1991. He has an ongoing collaborative research in the Schepense Eye Research Institute, Harvard Medical School, where he is a Visiting Professor. He was awarded the Research to Prevent Blindness - International Scholar Award and from 1991-1994 received grants from the Bi-national Science Foundation, the Israel Ministry of Health, and the Israel Academy of Science Grant. In 1999 Professor Gur was appointed Head of the Department of Biomedical Engineering incorporating the positions of Director of the Julius Silver Institute and Head of the Heart Research Institute. He is the laboratory coordinator of the Laboratory of Vision Research.

Research interests:

- Physiology and psychophysics of the visual system
- Artificial vision
- Models of visual processing.

Research Focus:

In our study of the mechanisms used for recognition and visual memory we are investigating how our surroundings are represented in the visual part of the brain. This research is based on recordings from single brain cells and on computer simulation using those data. Future research projects will study visual learning and visual memory (recognition). We will use ?MRI to determine which part of the human brain is active during the performance of certain tasks, and will investigate the presence of any brain activity that the subject is not consciously aware of.

Selected publications:

- Gur, M., Beylin, A. and Snodderly, D.M. Physiological properties of macaque VI neurons are correlated with extracellular spike amplitude duration and polarity. J. Neurophysiolog 82: 1451-1464, 1999.
- Gur, M., Beylin, A. and Snodderly, D.M. Response variability of neurons in primary visual cortex (VI) of alert monkeys. J. Neuroscience 17: 2914-2920, 1997.

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