

Paperback Re-issue

Perceptual Constancy examines a group of longstanding problems in the field of perception and provides a review of the fundamentals of the problems and their solutions. Experts in several different fields – including computational vision, physiology, neuro-psychology, psychophysics, and comparative psychology – present their approaches to one of the fundamental problems of perception: How does the brain extract a stable world from an ever-changing retinal input? How do we achieve color constancy despite changes in the wavelength content of daylight? How do we recognize objects from different viewpoints? And how do we know the sizes of those objects?

The contributors deal with the perception of color, size, shape and speed from the perspectives of developmental, clinical, and comparative psychology, psychophysics, physiology and computational modeling. But constancy comes at a price, and the final chapters address how the visual system must retain the ability to learn and also how the errors we make reveal the mechanisms we use. This important volume will appeal to researchers and graduate students in perceptual psychology, neurophysiology, and computer modelling.

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