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Engineered Biomimicry: Chapter 1. Biomimetic Vision Sensors

Cameron H.G. Wright, Steven F. Barrett

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Engineered Biomimicry: Chapter 1. Biomimetic Vision Sensors Cameron H.G. Wright, Steven F. Barrett This chapter is focused on vision sensors based on both mammalian and insect vision systems. Typically, the former uses a single large-aperture lens system and a large, high-resolution focal plane array; the latter uses many small-aperture lenses, each coupled to a small group of photodetectors. The strengths and weaknesses of each type of design are discussed, along with some guidelines for designing such sensors. A brief review of basic optical engineering, including simple diffraction theory and mathematical tools such as Fourier optics, is followed by a demonstration of how to match an optical system to some collection of photodetectors. Modeling and simulations performed with tools such as Zemax and MATLAB® are described for better understanding of both optical and neural aspects of biological vision systems and how they may be adapted to an artificial vision sensor. A biomimetic vision system based on the common housefly, Musca domestica, is discussed.

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