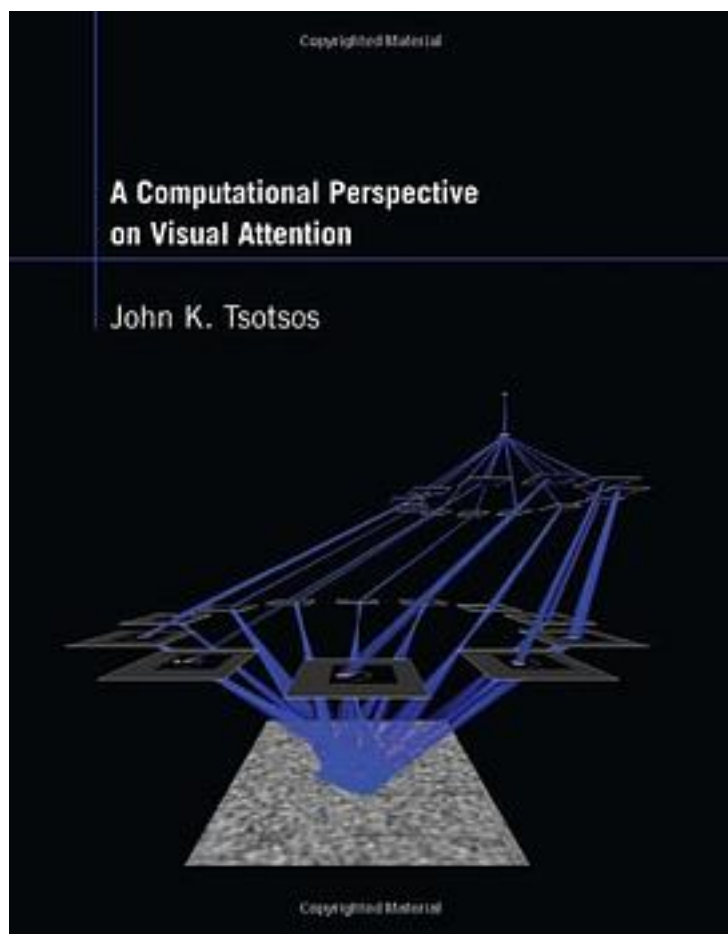# A Computational Perspective on Visual Attention

[A Computational Perspective on Visual Attention_下载链接1_](#)

著者:Tsotsos, John K.

出版者:

出版时间:2011-5

装帧:

isbn:9780262015417

Although William James declared in 1890, "Everyone knows what attention is," today there are many different and sometimes opposing views on the subject. This fragmented theoretical landscape may be because most of the theories and models of

attention offer explanations in natural language or in a pictorial manner rather than providing a quantitative and unambiguous statement of the theory. They focus on the manifestations of attention instead of its rationale. In this book, John Tsotsos develops a formal model of visual attention with the goal of providing a theoretical explanation for why humans (and animals) must have the capacity to attend. He takes a unique approach to the theory, using the full breadth of the language of computation--rather than simply the language of mathematics--as the formal means of description. The result, the Selective Tuning model of vision and attention, explains attentive behavior in humans and provides a foundation for building computer systems that see with human-like characteristics. The overarching conclusion is that human vision is based on a general purpose processor that can be dynamically tuned to the task and the scene viewed on a moment-by-moment basis. Tsotsos offers a comprehensive, up-to-date overview of attention theories and models and a full description of the Selective Tuning model, confining the formal elements to two chapters and two appendixes. The text is accompanied by more than 100 illustrations in black and white and color; additional color illustrations and movies are available on the book's Web site

作者介绍:

目录:

A Computational Perspective on Visual Attention_下载链接1_

标签

心理学

视觉

注意

评论

A Computational Perspective on Visual Attention_下载链接1_

书评

[A Computational Perspective on Visual Attention_下载链接1_](#)