



Attention in Cognitive Systems: 5th International Workshop on Attention in Cognitive Systems, WAPCV 2008 Fira, Santorini, Greece, May 12, 2008 Revised Selected Papers

By -

Springer. Paperback. Book Condition: New. Paperback. 273 pages. Dimensions: 9.2in. x 6.1in. x 0.6in. Attention has represented a core scientific topic in the design of AI-enabled systems in the last few decades. Today, in the ongoing debate, design, and computational modeling of artificial cognitive systems, attention has gained a central position as a focus of research. For instance, attentional methods are considered in investigating the interfacing of sensory and cognitive information processing, for the organization of behaviors, and for the understanding of individual and social cognition in infant development.

While visual cognition plays a central role in human perception, findings from neuroscience and experimental psychology have provided strong evidence about the perception-action nature of cognition. The embodied nature of sensorimotor intelligence requires a continuous and focused interplay between the control of motor activities and the interpretation of feedback from perceptual modalities. Decision making about the selection of information from the incoming sensory stream in tune with contextual processing on a current task and an agent's global objectives becomes a further challenging issue in attentional control. Attention must operate at interfaces between a bottom-up-driven world interpretation and top-down-driven information selection, thus acting at the core of artificial cognitive systems. These insights have already induced changes in AI-related disciplines, such as the design of behavior-based robot control and the computational modeling of animals. Today, the development of enabling

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