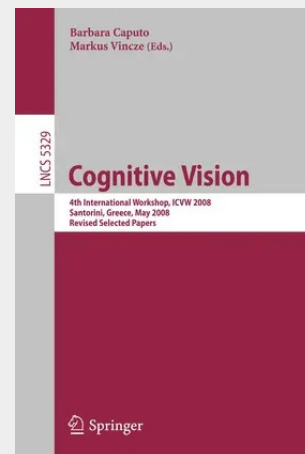


Cognitive Vision

4th International Workshop, ICVW 2008, Santorini, Greece, May 12, 2008, Revised Selected Papers

We are very pleased to present the proceedings of the 4th International Cognitive Vision Workshop, held as part of the 6th International Conference on Computer Vision Systems on Santorini, Greece during May 12–15, 2008. The aim of ICVW 2008 was to document the progress of the relatively young field of cognitive computer vision, bringing together researchers working and interested in this field and giving them a platform to discuss the results of the different European cognitive vision projects as well as international projects in this area. Original research papers were solicited in all aspects of cognitive vision, targeting the following areas in particular: – Memory: The coupling between visual perception, tasks, knowledge and the visual system requires memory. Issues that are of special importance for integrating memory into vision systems include: how to manage representations with limited resources; model for attention; integration of information across representations and time. – Learning and Adaptation: A system whose goal is that of interacting with the real world must be capable of learning from experience and adapting to unexpected changes. Also, there is a need for integration of multiple visual features to enable generation of stable hypotheses, and for methods for combination of cues in the presence of uncertainty. – Categorization: Research has in particular focused on recall of specific object instances, events and actions. Whereas recently some progress has been achieved in systems that allow limited recognition of object classes, events and scenes across visual appearance, new methods are needed to enable abstractions and effective categorization across variations in color, surface markings, geometry, temporal scenes, context and tasks.

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