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Spatial Coherence For Visual Motion However, visual motion is still often considered on a pixel-by-pixel basis, even though this ignores the fact that image regions corresponding to a single object usually undergo motion

Spatial Coherence for Visual Motion Analysis - First International Workshop, SCVMA 2004, Prague, Czech Republic, May 15, 2004, Revised Papers | W. James MacLean | Springer

Spatial Coherence for Visual Motion Analysis - First ... Spatial Coherence for Visual Motion Analysis, First International Workshop, SCVMA 2004, Prague, Czech Republic, May 15, 2004, Revised Papers. Lecture Notes in Computer Science 3667, Springer 2006, ISBN 3-540-32533-6 dblp: Spatial Coherence for Visual Motion Analysis

It must be noted that an implicit assumption of spatial coherence exists in motion models employing region based estimates of quantities such as image gradients. Further, it is often of interest to accurately measure the boundaries of moving regions.

Spatial Coherence in Visual Motion Analysis This spatial frequency dependence suggests that coherent motion, like many other visual properties, is analysed by mechanisms that are selective for spatial frequency. There are two kinds of model that might account for our results. Phenomenal coherence of moving visual patterns

In our case, temporal coherence (in accumulative computation) is understood as a measure of frame to frame motion persistency on a pixel, whilst spatial coherence (in lateral interaction) is a ...

Special issue on spatial coherence for visual motion ... title = "Optimal inference explains the perceptual coherence of visual

pattern of light on the retina is often consistent with a single translational velocity which may also be interpreted as a superposition of spatial patterns translating with different velocities. Optimal inference explains the perceptual coherence of ... We have studied the conditions under which coherence does and does not occur, and we report here that it depends on the relative contrasts, spatial frequencies and directions of motion of the ... Phenomenal coherence of moving visual patterns | Nature Spatial coherence. In some systems, such as water waves or optics, wave-like states can extend over one or two dimensions. Spatial coherence describes the ability for two points in space, x_1 and x_2 , in the extent of a wave to interfere, when averaged over time. Coherence (physics) - Wikipedia Given two subsequent frames, estimate the apparent motion field $u(x,y)$, $v(x,y)$ between them • Key assumptions • Brightness constancy: projection of the same point looks the same in every frame • Small motion: points do not move very far • Spatial coherence: points move like their neighbors $I(x,y,t-1)$ $I(x,y,t)$ Lecture 7 Optical flow and tracking - Stanford University The ability of a subject to detect coherent motion is commonly tested using motion coherence discrimination tasks. For these tasks, dynamic random-dot patterns (also called random dot kinematograms) are used that consist in 'signal' dots moving in one direction and 'noise' dots moving in random directions. The sensitivity to motion coherence is assessed by measuring the ratio of 'signal' to 'noise' dots required to determine the coherent motion direction. Motion perception - Wikipedia Special Issue on Spatiotemporal

Coherence for Visual Motion Analysis. Edited by W. James MacLean, Nikos Paragios, David Fleet. Volume 108, Issue 3, Pages 205-284 (December 2007) ...
Special issue on spatial coherence for visual motion analysis. W. James MacLean, Nikos Paragios, David Fleet. Pages 205-206 Download PDF; Special Issue on Spatiotemporal Coherence for Visual ... Spatial coherence for visual motion analysis : first international workshop, SCVMA 2004, Prague, Czech Republic, May 15, 2004 : revised papers. [W James MacLean;] -- Motion analysis is a central problem in computer vision, and the past two decades have seen important advances in this field. Spatial coherence for visual motion analysis : first ... This network responds by signaling one pattern direction for coherent motion but two distinct directions for transparent motion. Based on this, neural networks with properties of MT and MST neurons can automatically signal motion coherence or transparency. In addition, the model accurately predicts motion repulsion under transparency conditions. A model for motion coherence and transparency | Visual ... SCVMA - Spatial Coherence for Visual Motion Analysis. Looking for abbreviations of SCVMA? It is Spatial Coherence for Visual Motion Analysis. Spatial Coherence for Visual Motion Analysis listed as SCVMA Spatial Coherence for Visual Motion Analysis - How is ... The global motion coherence level of the stimulus was manipulated by constraining a fixed proportion of "signal" dots on each image update to move coherently along a translational trajectory (either upwards or downwards on each trial with equal probability). The remainder ("noise" dots) moved in random directions. The ups and downs of global motion

perception: a Spatial integration of motion signals is apparent at the neurophysiological level in neurons (in area MT, for example) whose receptive fields are larger than those of their V1 inputs by as much as a factor of 10 (Maunsell & Van Essen, 1983, Movshon & Newsome, 1996; Tanaka, Hikosake, Saito, Yukiie, Fududa & Iwaia, 1986) and therefore are good candidates to perform spatial summation of their input motion information. Can spatial and temporal motion integration compensate for ... We find that motion stimuli involving small spatial displacements yield better visual performance at lower contrast, and that this improvement is mirrored in the activity of MT neurons. These data link contrast-adaptive responses in area MT with behavioral performance and demonstrate that brighter is not always better for motion processing. Interactions between contrast and spatial displacement in ... Form and motion coherence was tested in children with dyspraxia and matched controls to assess their global spatial and global motion processing abilities. Thresholds for detecting form coherence patterns were significantly higher in the dyspraxic group than in the control group. No corresponding difference was found on the motion coherence task. We tested eight children with dyspraxic ... Form and motion coherence processing in dyspraxia ... The text's visual use of the center page, which then moves to left- and right-hand columns — alternating line groupings in unpredictable and seemingly arbitrary ways — performs for the literal spectator of the script page the visual “spatial motion” we are seeing figurally, in body language performed on the stage.

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