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Spatio-Temporal Complexity in Nonlinear Image Processing. Abstract-This is a pictorial survey of pattern dynamics in video feed-back and in related numerical models. After a short introduction to video feedback apparatus and concepts from dynamical systems theory, a range of phenomena are presented, from simple attractor types to homogeneous video turbulence. Examples of complex behavior include symmetry-locking chaos, spatial amplification of fluctuations in open flows, dislocations, phyllotaxis, spiral ...

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Learning Spatial and Spatio-Temporal Pixel Aggregations for Image and Video Denoising. Abstract: Existing denoising methods typically restore clear results by aggregating pixels from the noisy input. Instead of relying on hand-crafted aggregation schemes, we propose to explicitly learn this process with deep neural networks. We present a spatial pixel aggregation network and learn the pixel sampling and averaging strategies for image denoising.

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The spectro-temporal receptive field or spatio-temporal receptive field of a neuron represents which types of stimuli excite or inhibit that neuron. "Spectro-temporal" refers most commonly to audition, where the neuron's response depends on frequency versus time, while "spatio-temporal" refers to vision, where the neuron's response depends on spatial location versus time. Thus they are not exactly the same concept, but both referred to as STRF and serving a similar role in the analysis of neural

Spectro-temporal receptive field - Wikipedia

The spatio-temporal fusion algorithm aims to generate high spatial and temporal resolution images, which takes the fine images and coarse images in the base date and coarse images in the prediction date as inputs to predict fine images in the prediction date (Figure 1) [8, 9, 28].

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Spatio-Temporal Complexity in Nonlinear Image Processing JAMES P. CRUTCHFIELD Ahsfruct -This is a pictorial survey of pattern dynamics in video feed-back and in related numerical models. After a short introduction to video feedback apparatus and concepts from dynamical systems theory, a range

Spatio-Temporal Complexity in Nonlinear Image Processing

It summarizes the predominant directions of the gradient in a specified neighborhood of a point, and the degree to which those directions are coherent. The structure tensor is often used in image processing and computer vision.

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