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Centric Models of the Orientation Map in Primary Visual Cortex

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Abstract:

In the visual cortex of the monkey the horizontal organization of the preferred orientations of orientation-selective cells follows two opposing

rules: 1) neighbors tend to have similar orientation preferences, and 2) many different orientations are observed in a local region.

Several orientation models which satisfy these constraints are found to differ in the spacing and the topological index of their

singularities. Using the rate of orientation change as a measure, the models are compared to published experimental results.

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