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Scanning a hemisphere and other biologically motivated vision problems

Nature demonstrates amazing solutions to a plethora of challenging machine vision problems. Anyone who has watched a 2 cm Cataglyphis ant homing in a straight 500 m path to its nest or a fly making a smooth touchdown on the ceiling will readily appreciate this. Biologically motivated computer vision studies how to make artificial vision systems that emulate or simulate the underlying principles demonstrated by living biological systems. In this talk we will introduce some preliminary results in this area emphasizing the symbiotic relationship that benefit both sides in this interdisciplinary research field.

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