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Cepstral Filtering on a Columnar Image Architecture: A Fast Algorithm for Binocular Stereo Segmentation (Classic Reprint) (Paperback)

By Yehezkel Yeshurun

Forgotten Books, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Cepstral Filtering on a Columnar Image Architecture: A Fast Algorithm for Binocular Stereo Segmentation Many primate visual cortex architectures (including the human) have a prominent feature responsible for the mixing of left and right eye visual data: ocular dominance columns represent thin(about 6 minutes of arc) strips of alternating left and right eye input to the brain. In the present paper we show that such an architecture, when operated upon with a cepstral filter, provides a strong cue for binocular stereopsis. Specifically, the vector of binocular disparity may be easily identified in the output of the (columnar based) cepstral filter. This algorithm is illustrated with application to a random dot stereogram and to natural images. We suggest that this provides a fast algorithm for stereo segmentation, in a machine vision context. In a biological context, this may provide a computational rationale for the existence of columnar systems, both with regard to ocular mixing, and to other visual modalities which have a columnar architecture. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find...



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