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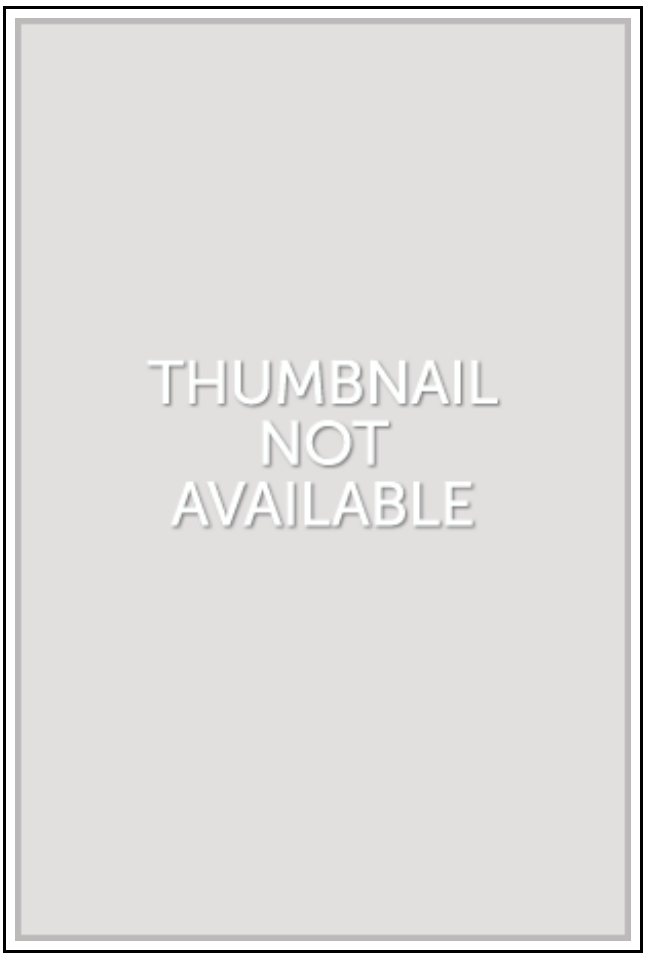


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# ROBOTICS RESEARCH TECHNICAL REPORT, VOL. 255: RECONSTRUCTION FROM ZERO-CROSSINGS IN SCALE-SPACE (CLASSIC REPRINT) (PAPERBACK)

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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Robotics Research Technical Report, Vol. 255: Reconstruction From Zero-Crossings in Scale-Space A useful representation of signal data, besides being a complete and stable transformation of the information, should make explicit useful features in the data. In computer vision, the one-parameter family of images obtained from the Laplacian of a Gaussian-filtered version of the image, parameterized by the width of the Gaussian, has proven to be a useful data structure for the extraction of feature data. In particular, the zero-crossings of this so-called scale-space data are associated with edges, and were proposed by Marr and others as the basis of a representation of the image data. The question arises as to whether the representation is complete and stable. We survey some of the results and studies related to these questions, and survey several papers that attempt reconstructions based on this or related representations. We then formulate a new method for the reconstruction from zero-crossings in scale-space, based on minimizing equation error, and present results showing that the reconstruction is possible, but can be unstable. We further show that the method applies when gradient data along the zero-crossings is included in the representation, and demonstrate that the reconstruction is then stable. 1. Notions 1.1. Representations In the fields of signal analysis and image processing, the first stage of a complete pattern recognition system typically applies some numerical process to the digital data. In image processing, for example, it is generally considered useful to extract edges, comers, and textured regions in the image. In other words, the features and salient symbolic information about signal and image data are dynamically associated with groups or regions of the data, and...

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