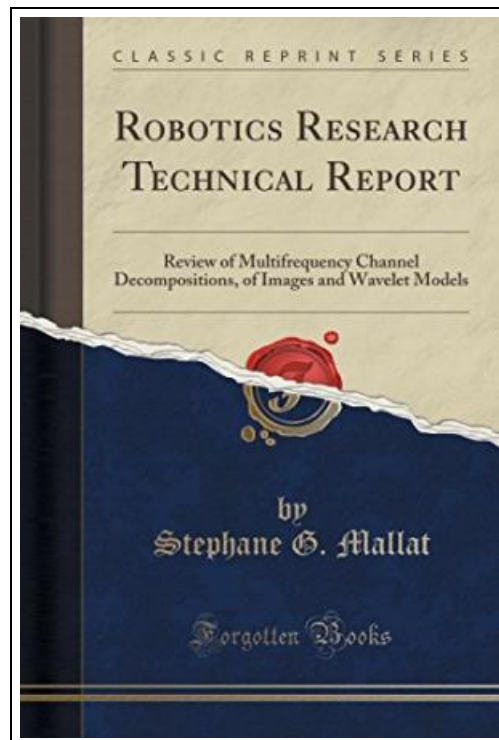


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from **Robotics Research Technical Report: Review of Multifrequency Channel Decompositions, of Images and Wavelet Models** In this paper we review the recent multichannel models developed in psycho-physiology, computer vision and image processing. In psychophysiology, multichannel models have been particularly successful for explaining some low-level processing in the visual cortex. The expansion of a function in several frequency channels provides a representation which is intermediate between a spatial and a Fourier representation. We describe the mathematical properties of such decompositions and introduce the wavelet transform. We review the classical multiresolution pyramidal transforms developed in computer vision and show how they relate to the decomposition of an image in a wavelet orthonormal basis. In the last section we discuss the properties of the zero-crossings of multifrequency channels. Zero-crossings representations are particularly well adapted for pattern recognition in computer vision. 1. Introduction Within the last 10 years, multi-frequency channel decompositions have found many applications in image processing. In psycho-physiology of human vision, multichannel models have also been particularly successful for explaining some low-level biological processes. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.



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