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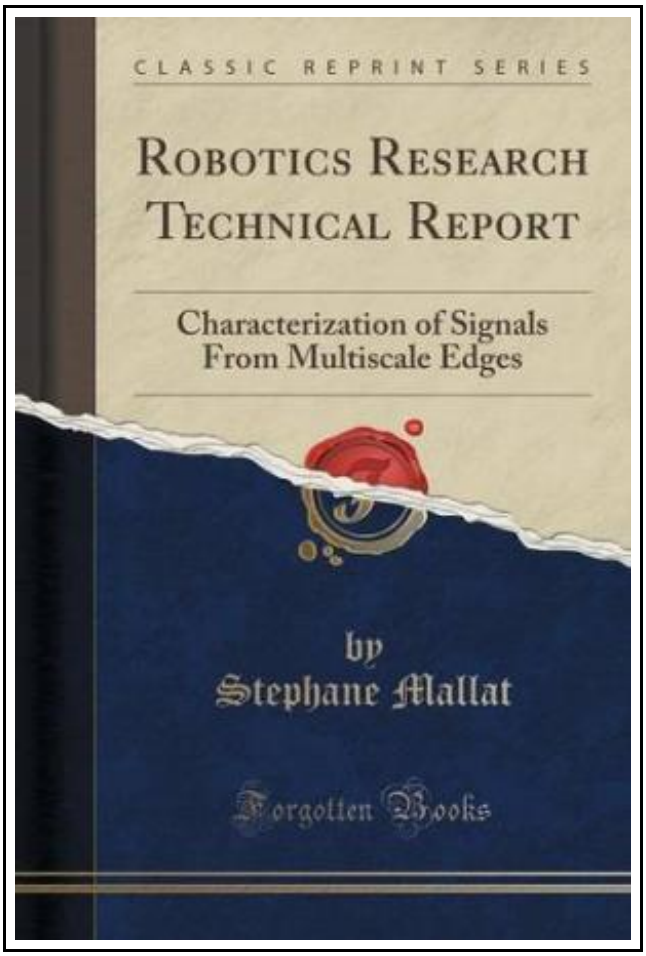

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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Robotics Research Technical Report: Characterization of Signals From Multiscale Edges Points of sharp variations are often among the most important features for analyzing the properties of transient signals or images. In images, they are generally located at the boundaries of important image structures. In order to detect the contours of small structures as well as the boundaries of larger objects, several researchers in computer vision have introduced the concept of multiscale edge detection [24, 29, 31]. The scale defines the size of the neighborhood where the signal changes are computed. The wavelet transform is closely related to multiscale edge detection and can provide a deeper understanding of these algorithms. We concentrate on the Canny edge detector [3[, which is equivalent to finding the local maxima of a wavelet transform modulus. There are many different types of sharp variation points in images. Edges created by occlusions, shadows, highlights, roofs, textures. have very different local intensity profiles. To label more precisely an edge that has been detected, it is necessary to analyze its local properties. In mathematics, singularities are generally characterized by their Lipschitz exponents. The wavelet theory proves that these Lipschitz exponents can be computed from the evolution across scales of the wavelet transform modulus maxima. We derive a numerical procedure to measure these exponents. If an edge is smooth, we can also estimate how smooth it is from the decay of the wavelet transform maxima across scales. Lipschitz exponents and smoothing factors arc numerical descriptors that allow us to discriminate the intensity profiles of different types of edges. An important open problem in computer vision is to understand how much information is carried by multiscale...

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