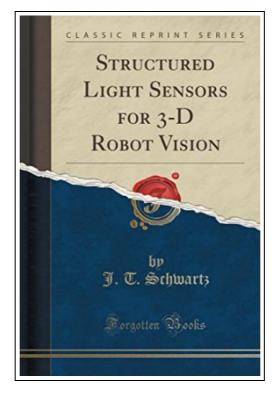
# Structured Light Sensors for 3-D Robot Vision (Classic Reprint) (Paperback)



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## STRUCTURED LIGHT SENSORS FOR 3-D ROBOT VISION (CLASSIC REPRINT) (PAPERBACK)



Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from Structured Light Sensors for 3-D Robot Vision A structured light or active illumination visual sensor is one which illuminates objects using non - uniform beams of light on which properties varying from point to point through the geometric extent of the beam have been impressed. Any observable property can be used to form such a beam; among properties which one might think of exploiting are intensity, polarisation, spectral distribution of optical energy, coherence, and (temporal) modulation. Structured light sensors can be used to achieve 3 - D vision, that is, to build visual sensors that report the true position in 3 - dimensional space of points on the surface of a body or bodies being observed. Besides giving information on object proximity, sensor output of this kind should be very useful for identifying the objects present in a scene and determining their positions and orientations. The simplest form of structured light approach is the striped light scheme originally introduced by P. Will and K. Pennington of ibm Research. In this sensor (see Fig. 1) a plane P of light formed by passing collimated light from a source 8 through a Slit is used to illuminate a body B. The resulting illuminated stripe on the body B is observed through a camera C offset from the source S. Then the 3-d position of each illuminated point X can be calculated as the unique point of intersection of the plane P with the known line L from the camera through X. Note that L is known since it is determined geometrically by the point at which the image of X falls on the retina of C. (see Fig. 1, below.) We also suppose...



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