
This workshop focused on the state of the art in machine vision applications to the industrial world, particularly automatic visual inspection and robot control. The 29 papers presented in these proceedings cover optics and imaging, systems for prototyping, inspection applications and techniques, hardware image processors, 3-D vision techniques, and robot vision systems.

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Designed to strengthen the technical foundation of the microelectronic specialist and to provide engineers and managers with a clear understanding of the issues and major directions in which VLSI technologies will evolve, this tutorial examines the semiconductor industry in its fourth decade of growth and attempts to chart its most likely path of evolution. The market demand for ICs and major US and Japanese IC suppliers are examined, and elements of silicon IC technology are identified and discussed in introductory reviews and a selection of 44 key published papers.

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