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Selected Papers on

Natural and Artificial Compound Eye Sensors

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edges and colours but there is no sign that they reconstruct patterns or put together features to form objects Bees detect motion but have no perception of what it is that moves and certainly they do not recognize things by their shapes Yet they clearly see well enough to fly and find food with a minute brain Bee vision is therefore relevant to the construction of simple artificial visual systems for example for mobile robots The surprising conclusion is that bee vision is adapted to the recognition of places not things In this volume Adrian Horridge also sets out the curious and contentious history of how bee vision came to be understood with an account of a century of neglect of old experimental results errors of interpretation sharp disagreements and failures of the scientific method. The design of the experiments and the methods of making inferences from observations are also critically examined with the conclusion that scientists are often hesitant imperfect and misleading ignore the work of others and fail to consider alternative explanations. The erratic path to understanding makes interesting reading for anyone with an analytical mind who thinks about the methods of science or the engineering of seeing machines Selected Papers on Optical Remote Sensing Theory and Measurements James A. Smith, 1997 Topics in this volume include reflection and transmission terminology by analogy with scattering radiometric considerations in remote sensing and light relations in plant canopies Selected Papers on Electronic Speckle Pattern Interferometry Peter Meinlschmidt, Klaus D. Hinsch, R. S. Sirohi, 1996 This collection of papers offers the principles and practices of electronic speckle pattern interferometry ESPI It covers topics such as parameters for design and optimization measurment of static and dynamic surface displacements pulsed lasers and TV holography Selected Papers on Confocal Microscopy Barry R. Masters, 1996 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics Selected Papers on Precision Stabilization and Tracking Systems for Acquisition, Pointing, and Control Applications Michael K. Masten, Larry A. Stockum, 1996 The papers in this volume address topics including imaging autotracker technology for guided missile systems disturbance estimation and compensation in linear Selected Papers on Silica Integrated systems and precision pointing and tracking between satellite borne optical systems Optical Circuits Herman M. Presby, 1996 Contents of this text include integrated optics silicon nitride films on silicon for optical waveguides new technology for reduction in cost and size of silica guided wave component and silicon based fibre pigtailed 1x16 power splitter Selected Papers on Laser Beam Diagnostics Robert N. Hindy, Jeffrey H. Hunt, 1996 The papers in this volume cover topics including laser measurements of long distances surface flaw detection using oblique angle illumination optical diagnostics of laser metal interaction during welding high speed surface flaw detection and sulphur chemistry in flames <u>Selected Papers on CCD and CMOS Imagers</u> Moon Gi Kang, 2003 Imaging systems that employ CCD and CMOS sensors are now almost universal for certain scientific medical and consumer electronic purposes This volume covers CCD and CMOS technological development including approaches to overcoming the technology s intrinsic physical limitations Selected Papers on Optical Techniques for Industrial Inspection Paolo G. Cielo, 1997 Contents of this volume

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