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A CMOS image sensor replicating the perception of vision in insects is discussed and designed in this book for industrial (machine vision) and medical applications. The CMOS metal layer is used to create an embedded micro-polarizer able to sense polarization information.

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A Biologically Inspired CMOS Image Sensor (eBook, 2013 ...

A complementary-metal-oxide semiconductor (CMOS) image sensor replicating the perception of vision in insects is presented for machine vision applications. Biologically Inspired CMOS Image Sensor for Fast Motion and Polarization Detection - IEEE Journals & Magazine

Biologically Inspired CMOS Image Sensor for Fast Motion ...

A Biologically Inspired CMOS Image Sensor . By M. (author) Sarkar. Abstract. Biological systems are a source of inspiration in the development of small autonomous sensor nodes. The two major types of optical vision systems found in nature are the single aperture human eye and the compound eye of insects. The latter are among the most compact ...

A Biologically Inspired CMOS Image Sensor - CORE

research on biologically inspired imagers and image processing chips in standard CMOS processes have continued over the past ten years [5]–[7]. The imager presented here continues the trend of “reverse engineering biology,” where the outcome is a silicon retina with focal-plane image processing/encoding,

A biomorphic digital image sensor - Solid-State Circuits ...

Biologically inspired image sensor/processor architecture with 2D cellular neural network for vision Abstract: A scalable image sensor array processor with frame memory buffer and cellular neural network (CNN) for nearest neighbor interaction has been developed in a 0.5 μm HP CMOS technology.

Biologically inspired image sensor/processor architecture ...

The Neuroseek program is developing a 256 X 256 2-color dual band IRFPA coupled to an optimized

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silicon CMOS read-out and processing integrated circuit that provides simultaneous full-frame imaging in MWIR/LWIR wavebands along with built-in biologically inspired sensor image processing functions.

Advances in biologically inspired on/near sensor ...

Biologically inspired autonomous agent navigation using an integrated polarization analyzing CMOS image sensor. ... The image sensor consist of an array of 128×128 pixels, occupies an area of 5×4 mm² and it has been designed and fabricated in a 180 nm CMOS process.

Biologically inspired autonomous agent navigation using an ...

A Biologically Inspired CMOS Image Sensor. A Biologically Inspired CMOS Image Sensor pp 185-214 | Cite as. Navigation Using CMOS Polarization Sensor. Authors; Authors and affiliations; Mukul Sarkar; Albert Theuwissen; Chapter. 1.7k Downloads; Part of the Studies in Computational Intelligence book series (SCI, volume 461) Abstract. The ...

Navigation Using CMOS Polarization Sensor | SpringerLink

Biologically inspired design, a kind of design by analogy, requires that engineers understand complex biological systems as analogues for design. A number of typical characteristics make biologically inspired design an especially interesting problem to study.

Biologically-Inspired Design - Design & Intelligence Lab

Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences IMAGE: a, Schematic illustrations of a biologically inspired ultrathin arrayed camera. The biologically...

Biologically inspired ultrathin arrayed camera for high ...

In this paper, a CMOS image sensor featuring a novel spiking pixel design and a robust digital

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intermediate read-out is proposed for deep submicron CMOS technologies.

Shoushun. CHEN | Nanyang Technological University ...

Abstract: - An ultra-wide dynamic range current-mode CMOS imager is presented. It achieves dynamic range compression by using biologically inspired shunting inhibition vision models. As a result, it features retina-like characteristics, enabling the sensor to adapt to a wide range of scene illumination conditions. Local image

A CURRENT-MODE CMOS IMAGER USING SHUNTING INHIBITION-BASED ...

An integrated CMOS image acquisition system suitable for retinal information processing in bionic vision systems or product inspection has been developed and tested. It supports the readout of arbitrarily user-defined subregions.

CiteSeerX — A CMOS Optical Sensor System Performing Image ...

The biologically inspired ultrathin camera features inverted microlens arrays (iMLA), multilayered aperture arrays (MAAs), gap spacers, and CMOS image sensor arrays (CMOS ISA). b, A cross-sectional...

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