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The multidimensional integrated intelligent imaging project (M-I3)

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M-I3 is a consortium of eleven universities and research laboratories whose mission is to develop complementary metal-oxide semiconductor (CMOS) active pixel sensors (APS) and to apply these sensors to a range of imaging challenges. A range of sensors has been developed: OPIC - designed for in-pixel intelligence; FPN - designed to develop novel techniques for reducing fixed pattern noise; HDR - designed to develop novel techniques for increasing dynamic range; Vanilla - with digital and analogue modes and regions of interest, which has also been backthinned; LAS - a novel stitched large area sensor; and eLeNA - which develops a ranges of low noise pixels. Applications being developed include: autoradiography, a gamma camera system, radiotherapy verification, tissue diffraction imaging, X-ray phase-contrast imaging DNA sequencing, electron microscopy.

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