CMOS IMAGE SENSORS have the advantage of functionality: extra digital or analog circuitry can easily be integrated on the same chip together with the image sensor. Andoh et al. (NHK) went even a step further: an amplifier is included within every pixel. This pixel, entitled Amplified MOS Imager (AMI), was the first version of what later became known as Active Pixel Sensor (APS) CMOS image sensors.