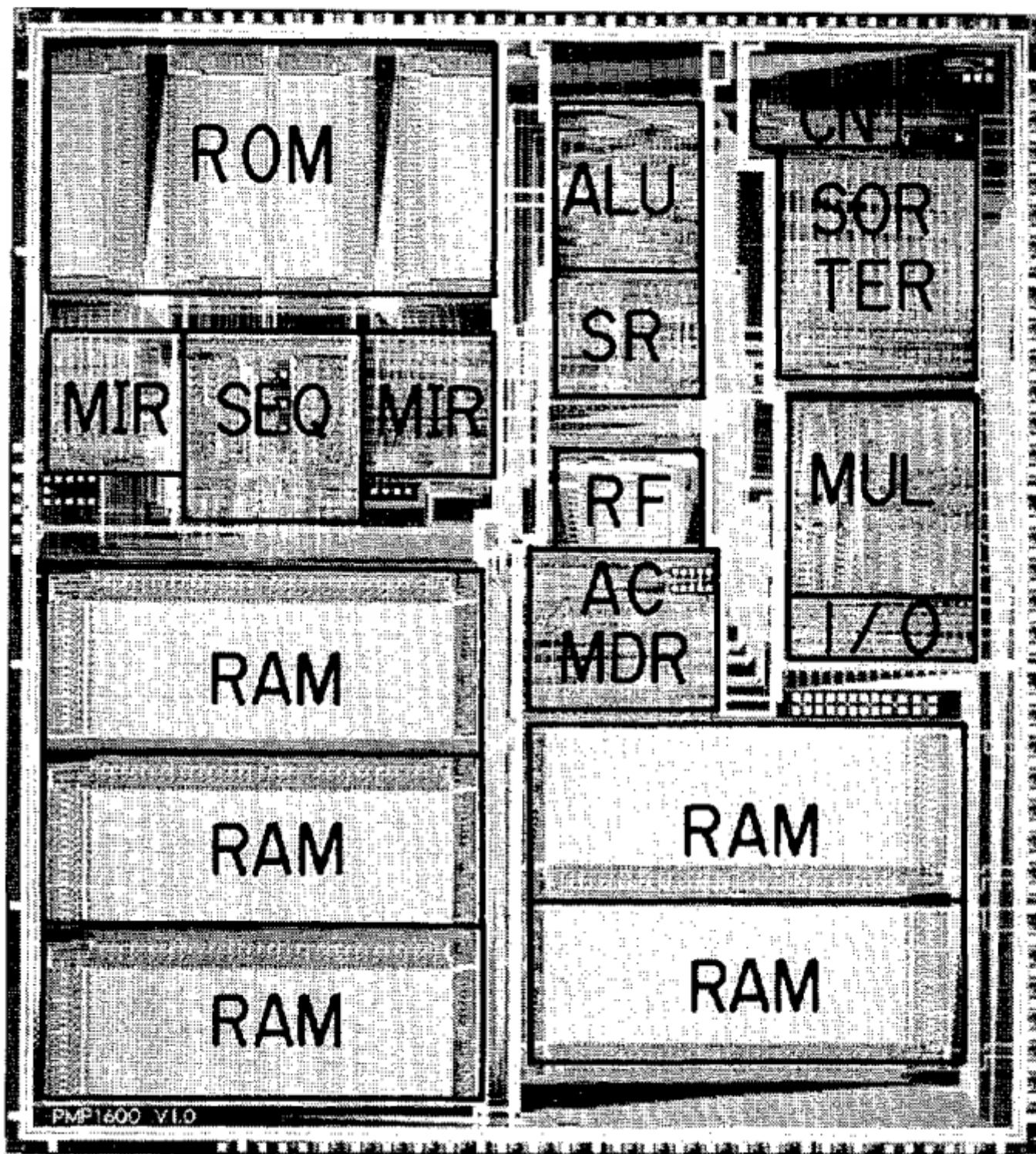


IMPLANTABLE MICROSENSORS

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Implantable Multielectrode Array with On-Chip Signal Processing

THE INTEGRATION OF microsensors with on-chip signal processing is one of the enabling features of many modern-day MEMS. In 1986, Najafi and Wise (University of Michigan) demonstrated micromachined implantable multielectrode arrays with on-chip signal processing. Multi-functional circuitry capable of amplification, multiplexing, and output buffering were demonstrated in a bulk-micromachining process.