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A novel cross-coupling capacitor processing unit (C3PU) that supports analog-mixed signal in memory computing to perform multiply-and-accumulate (MAC) operations and has been utilized through an iris flower classification utilizing an artificial neural network. This paper presents a novel cross-coupling capacitor processing unit (C3PU) that supports analog-mixed signal in memory ...

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This paper presents a novel cross-coupling capacitor processing unit (C3PU) that supports analog-mixed signal in memory computing to perform multiply-and-accumulate (MAC) operations. The C3PU consists of a capacitive unit, a CMOS transistor, and a voltage-to-time converter (VTC). The capacitive unit serves as a computational element that holds the ...

Dive into the research topics of "C3PU: Cross-Coupling Capacitor Processing Unit Using Analog-Mixed Signal for AI Inference". Together they form a unique fingerprint. Cross-Coupling Engineering 100%. Capacitive Engineering 100%. Processing Unit ...

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Instrument transformers provide the solution; they are go-betweens that provide isolation by magnetically coupling secondary monitoring and measuring devices to the ...

Coupling capacitors in series between stages of an audio circuit generally have a large enough value to roll off starting below 20 Hz. Since little audio voltage is lost across a ...

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