Ito Lab

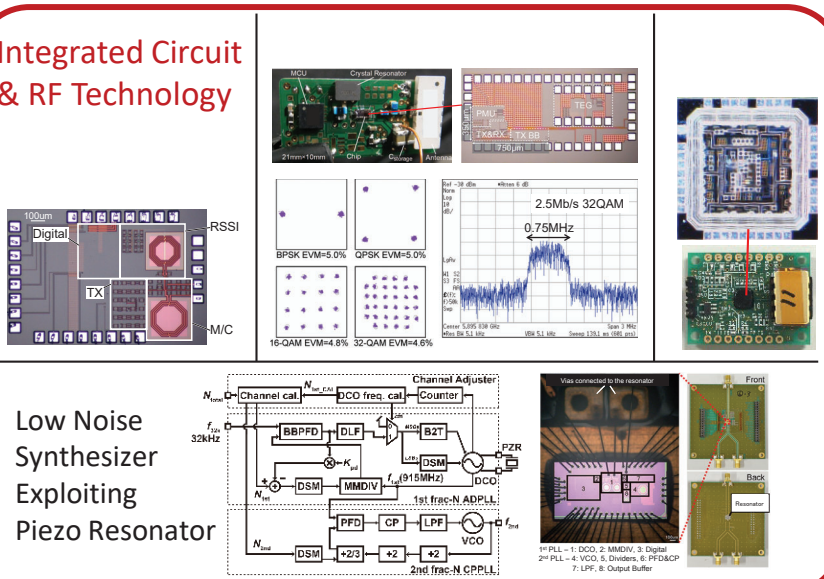
RF/Analog Circuits and Integrated MEMS for IoT

Nano Sensing Unit, FIRST
Applied Electronics Research Core

http://ateal.jp/

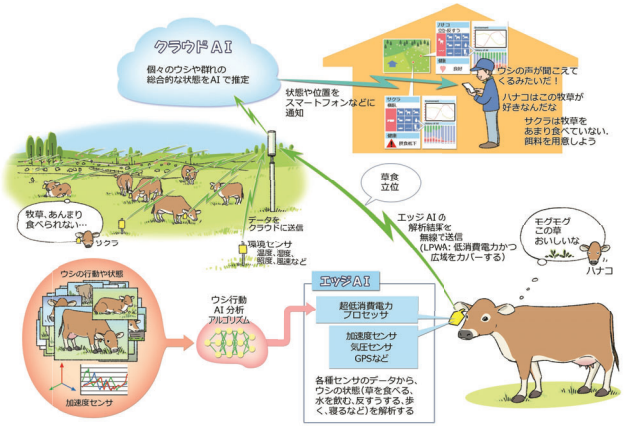
- Ultra Low Power (<1μW) RF/Analog Circuits
- High Sensitivity (< μG) MEMS Accelerometer
- Low Power (<1 μW) AI Chips for Time Series Data Processing
- Low Noise Synthesizer, Small Atomic Clock
- Cow Monitoring System

Integrated Circuit & RF Technology



Low Noise Synthesizer Exploiting Piezo Resonator

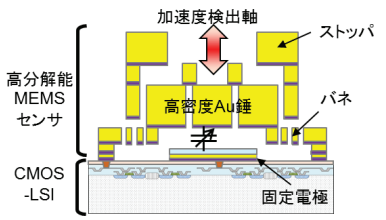
Agriculture & Husbandry

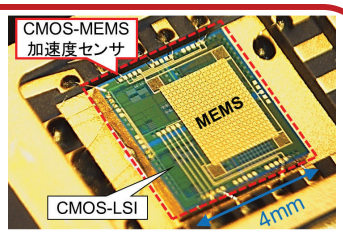


Edge-AI Device f(

MEMS Accelerometer

With micro-G Resolution

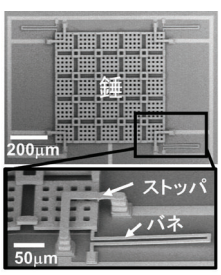




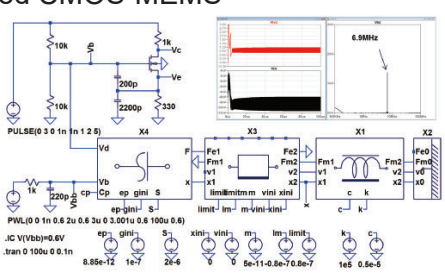
Integrated CMOS-MEMS

Energy Harvesting Device

Heterogeneous Integration (CMOS-MEMS)



MEMS Accelerometer



CMOS-MEMS Co-Design

Medical & Health Care