

Na Gong, Ph

Professor of Electrical and Computer Engineering Director, Institute for Artificial Intelligence and Microelectronics (IAIM)

105 Research Articles

\$10M+ in Research Funding

Research **Interests** 

Artificial Intelligence (AI) System Hardware Design for Privacy Memory Technology

Al Accelerators

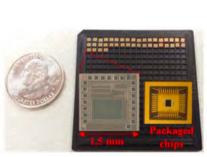
Intelligent Computing Circuits and Systems

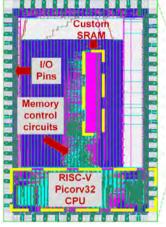
**Technological Capabilities** 

**Application-Specific** Integrated Circuit (ASIC)

**Embedded Systems** and FPGA

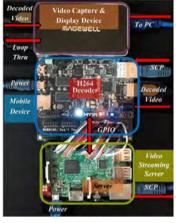
AI Solutions for Versatile Applications







Application-specific Integrated Circuit (ASIC) developed by Dr. Gong's team



AI-enabled smart video system developed by Dr. Gong's team (based on FPGA and embedded system)

2017 **IEEE Transactions on Circuits** and Systems II

"Data-Driven Intelligent Efficient Synaptic Storage for Deep Learning"

2021 **IEEE Transactions on** Sustainable Computing "Application-Aware Quality-

Energy Optimization"

2024 **Nature Scientific Reports** 

"Fluorescence Excitation-Scanning Hyperspectral Imaging with Scalable 2D-3D Deep Learning Framework for Colorectal Cancer Detection."

**IEEE Transactions on** Big Data

"Data-Pattern Enabled Self-Recovery Low-Power Storage System for Big Video Data"

2020 IEEE Transactions on Very Large Scale Integration (VLSI) Systems "Memory Optimization for Energy-Efficient Differentially Private Deep Learnina"

2023 "Local Differential **Privacy Using** Static Random-Access Memory" Patent Filed