

Artificial Intelligence

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Collaborations:

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- **Problem Formulation**
- Our Proposal
- High Performance Computing (HPC)
System Architecture
- Conclusion

Proposals

- Deep learning for heart disease diagnosis
- A high performance system for real-time biomedical applications
- Artificial Intelligence for health-care
- EEG based real-time system
- Body area network system

Applications Services

Computer Vision

Cognitive Radios
(SDR)

Medical
Healthcare

Real-time
Processing

High Performance
Computing

Mechanical Modeling
and Simulation

Web
(IoT, WBAN)

Programming Frameworks

Interactive

GCC

Python

OpenMP

MPI

CUDA

OpenACC

OpenCL

TensorFlow

OpenCV

CAFFE

Hardware Architectures

Multi-core
X86

GPUs

Sensor
Interfaces

FPGAs

Multi-Core
Embedded