

Zhenlin Wang

Professor, Computer Science
Chair, Computer Science



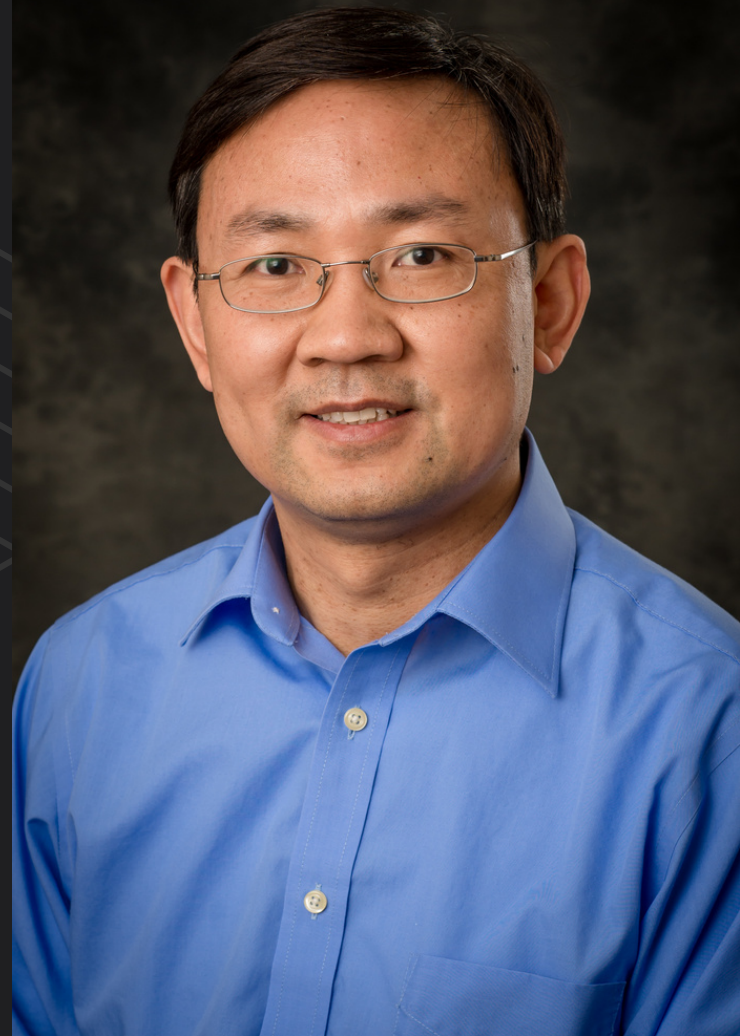
zlwang@mtu.edu



+1-906-487-2187

Research Interests

- Optimizing Compilers
- High Performance Architectures
- Cloud Computing
- Virtualization



Links of Interest



[Dr. Wang's Webpage](#)



[Institute of Computing and Cybersystems](#)



Research Synopsis



Key-value store management:

Modeling cloud key-value cache replacement and optimizing resource allocation.

Tiered memory management for virtual machines:

Managing fast and slow memory for virtual machines in a tiered memory system such as CXL.

Parallelizing finite state machines on GPUs:

Develop speculative parallel GPU algorithms to expedite DFA and NFA processing.

Software/Hardware cooperative caching:

Exploring cache partitioning and bandwidth allocation for multiprogrammed workloads.

Resource management for deep learning clusters:

Develop scheduling strategies and system optimization schemes for deep learning jobs.



[ICC] Institute of Computing
and Cybersystems

For more information



Publications