

Big Data Systems on Future Hardware

Bingsheng He

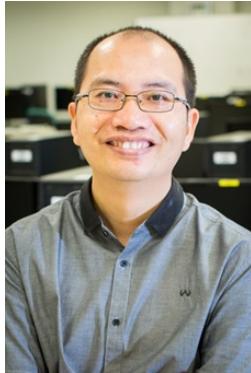
NUS Computing

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Learning Outcome

- After this lecture, you should know about
 - Why Hardware Matters?
 - Challenges & experiences in hardware-conscious research
 - Some example case studies
 - Future research directions

Lecturers



Dr. Bingsheng He



Dr. Cheng Liu



Mr. Shuhao Zhang



Mr. Xuntao Cheng

Agenda

- Jan 10, morning:
 - An overview [Dr. Bingsheng He, 1 hour and 30 min]
 - Data processing on FPGA [Dr. Cheng Liu, 1 hour and 30 min]
- Jan 10, afternoon:
 - DSP on multi-core processors [Mr. Shuhao Zhang, 1 hour and 30 min].
 - Relational databases on many-core processors [Mr. Xuntao Cheng, 1 hour and 30 min]
 - Q&A [Dr. Bingsheng He, 30 min]

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