Faculty and Research Interests

黃元欣

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副教授

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Education:

Ph.D. in Computer Science, University of Maryland, 1998

Experience:

2008-present Associate Professor, Dept. of CSIE, National Taiwan U. of Science & Technology

2003-2008 Associate Professor, Dept. of CSIE, National Taiwan Ocean University

2000-2003 Assistant Professor, Dept. of Computer Science, National Taiwan Ocean University

1999-2000 Assistant Professor, Dept. of CSIE, National Chi Nan University

Research Areas:

Compilers, Parallel Processing, Computer Architecture, Embedded Systems

Projects:

- **Compiler and Hardware Support for a 256-Register Alpha Processor**
  - **develops an instruction encoding format that can significantly increase the numbers of architectural registers visible to programmers and compilers, without adding any extra bits to instructions.**
- **System Software Designs for Heterogeneous Embedded Multicore Processors — A1. Compiler Tools for Multicores**
  - **Develops a tool chain for multicore systems, including a multicore compiler, a debuggers, and an IDE**