HARDWARE AREA
Designing computer systems for tomorrow

- 16 faculty:
  Todd Austin, Valeria Bertacco, Peter Chen, Robert Dick,
  Prabal Dutta, John Hayes, Scott Mahlke, Igor Markov,
  Jason Mars, Pinaki Mazumder, Trevor Mudge,
  Satish Narayanasamy, Marios Papaefthymiou,
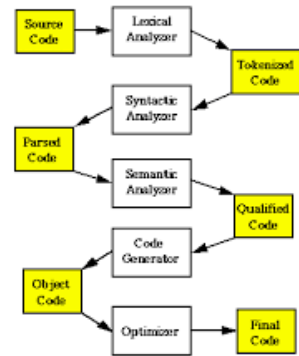 Karem Sakallah, Lingjia Tang, Thomas Wenisch

- 70+ Ph.D. students

- >5M$ research expenditures/year
  NSF, DARPA, Intel, IBM, Qualcomm, NVIDIA, Cisco, Google…

- Home of 2 research centers:
  - C-FAR Center for Future Architecture Research
  - ARM Research

Broad Research Spectrum
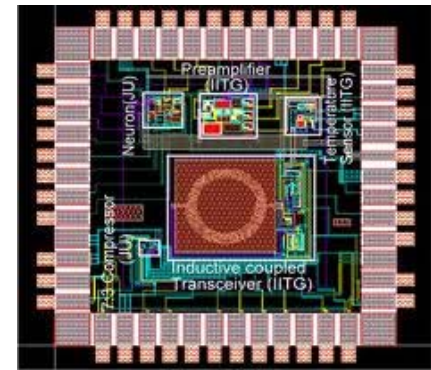

Compilers

Design Viability

Data-centers

Hardware security
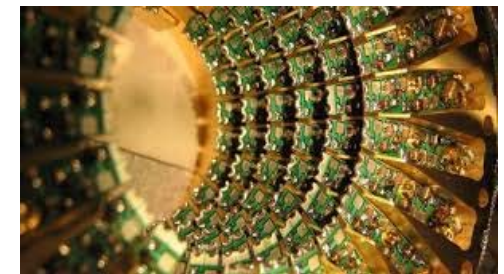

HW Accelerators & GP-GPUs
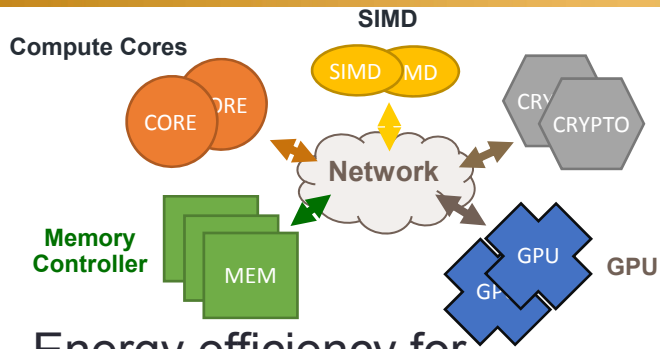

Circuit Design

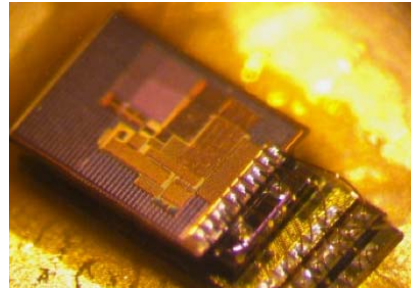Reliable Design
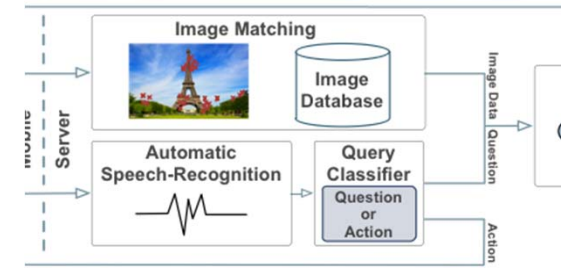

Embedded & wearable systems

Quantum Computing

Some of Our Recent Ideas

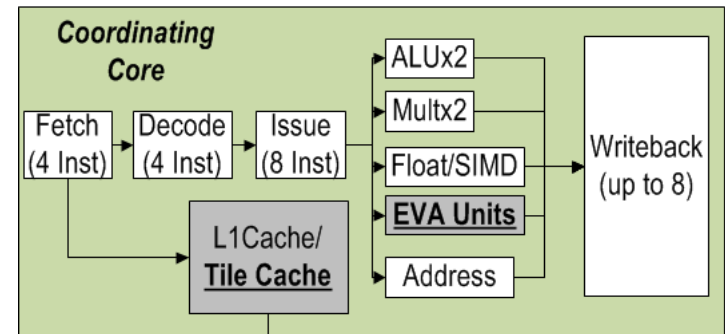Energy efficiency for heterogeneous systems
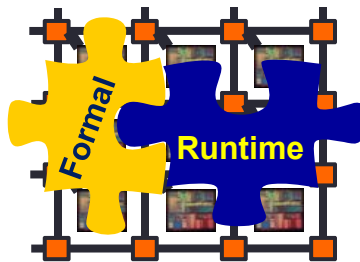

Micromote for Smartdust

Sirius pipeline

Security for the heart

ForEVeR runtime

EVA – heterogeneous design

Computational sprinting

Where did our graduates go ?

- Faculty
  - CMU, Stanford, Illinois, GeorgiaTech, Toronto, Maryland, NC State, Virginia Tech…

- Industrialists
  - IBM, ARM, Intel, AMD, Hewlett-Packard, Apple, Google, Microsoft, Facebook, NVIDIA, Qualcomm, Texas Instruments,…

  - Started their own company, sold out, got insanely rich, and happily retired.