Enabling Sensing, Communications, Computing, and Control in Everyday Things

Embedded Multicore Architectures and Programming
- Compilers and architectures for multicore embedded systems
- Power-efficient programmable accelerators
- Soft error resilient system design
- Design and programming of low power embedded systems
- Embedded GPU computing for mobile systems

Power, Energy and Thermal-Aware Design
- Low power circuit architectures and design tools
- Performance, power, energy and thermal management for multicore
- Energy efficient architectures

Cyber-Physical Systems
- Modeling and simulation
- Model-based formal verification and semi-formal testing
- Model-based synthesis from high-level specifications

Embedded Software Systems
- Real-time scheduling
- Embedded systems for smart grids
- Scheduling and middleware for multicore-based embedded systems

Integrated Circuit Technologies, Design, and Test
- Semiconductors for hostile environments
- Emerging semiconductor technologies

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Center for Embedded Systems

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