

Call for Tutorial Proposals

2012 NASA/ESA Conference on Adaptive Hardware and Systems (AHS-2012)

June 25-28, 2012

Nuremberg, Germany

<http://www.see.ed.ac.uk/ahs2012/>

Topics for the tutorials will include, but are not limited to:

- Built-in tuneable structures and automated tuning
- Automatic/self-calibration
- Built-in self-test and self-repair
- Design and test of integrated system in nano scale
- On-chip learning and adaptation
- Adaptive circuits and configurable IP cores
- Reconfigurable and morphable hardware
- Reconfigurable hardware for space applications
- Embryonic hardware, morphogenesis
- Evolvable hardware
- Design for adaptive systems
- Adaptive embedded system
- Adaptive control circuits and adaptive flight hardware
- Search and optimization algorithms for adaptive hardware
- Hardware implementations of optimization engines
- Learning and evolutionary algorithms for adaptive hardware
- Algorithms for exploring design space of adaptive hardware
- Adaptive computing and run-time reconfiguration
- Adaptation with hardware in the loop
- Adaptive optics
- Adaptive antennas
- Adaptive sensing
- Adaptive MEM/NEMS devices
- Adaptive interfaces
- Hardware for adaptive signal processing
- Adaptive medical and prosthetic devices
- Adaptive wired and wireless networks
- Adaptive hardware for autonomous systems
- Adaptive flight hardware
- Space applications
- Communications applications
- MEMS/NEMS energy scavenging devices
- Emerging technologies-Nanoelectronics
- Reconfigurable computing incl. multi core architectures
- Adaptive wireless for space
- Secure data and information systems
- High-performance reconfigurable computing

Prospective organizers of 2-hour tutorials should submit their proposals to the Tutorials Chair with the following information included:

1. Tutorial title and summary.
2. Lecturer's brief history.
3. Contact details (E-mail, Telephone and Address)

Proposals should be sent to the Tutorials Chair at the following address ahs-tutorials@see.ed.ac.uk before the deadline given below.

Important deadlines:

Proposals due: March 2, 2012

Notification of acceptance: March 16, 2012