**Important Dates**
- Aug. 24th, 2010 Paper Submission
- Oct. 12th, 2010 Acceptance Notification
- Nov. 2nd, 2010 Camera-Ready Copies

**Track Chairs**
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- Univ. of Pisa, Italy
Li-Pin Chang
- National Chiao-Tung Univ. - Taiwan

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**SAC 2011**
26th ACM Symposium on Applied Computing
TaiChung, Taiwan, March 21-25, 2011
http://www.acm.org/conferences/sac/sac2011

**SPECIAL TRACK**

Embedded Systems
Applications, Solutions, and Techniques

High performance embedded computing has become more and more present in devices used in everyday life. The complexity of embedded software is posing new challenging issues: the adoption of further flexible programming paradigms/architectures is becoming mandatory. Nonetheless, the development of embedded systems must still rely on a tight coupling of hardware and software components. Moreover, the market pressure calls for shortening the time-to-market and for driving the evolution of existing products. New solutions to problems in this setting can be put into action by means of a joint effort of academia and industry.

Design of embedded systems must take into account performance, code size, power consumption, presence of real-time tasks, maintainability, security and possibly scalability: the more convenient trade-off has to be found, often operating on a large number of different parameters. In this scenario, solutions can be proposed at different levels of abstraction, making use of an assortment of tools and methodologies: researchers and practitioners have a chance to propose new ideas and to compare experimentations.

The focus of this conference track is on techniques for the embedded systems development. Particular attention is paid to cross-field solutions (e.g. involving expertise in computer architecture, OS, compilers, security, software engineering, simulation, etc.). The track will benefit also from direct experiences in the employment of embedded devices in "unconventional" application areas, so to show up new challenges in the system design/process. In this setting, researchers and practitioners from academia and industry will get a chance to keep in touch with problems, open issues and future directions in the field of development of dedicated applications for embedded systems.

**Topics of Interest**

- Methodologies and tools for design-space exploration
- Simulation techniques for ES
- System-level design
- Power-aware design techniques /computing
- Testing, debugging, profiling and performance analysis of ES
- Networked sensor devices and systems
- SoC-based ES and applications
- Middleware solutions for ES
- Multithreading in ES design and development
- Java embedded computing
- Software architectures and SOA for ES
- ES exploitation within Information Systems
- Multimedia management in ES
- Security and dependability support & ES
- ES contribution in meeting security goals
- OS & RTOS for embedded systems
- Safety critical embedded systems
- HW/SW support for real-time applications
- Compilation strategies for performance enhancement vs. footprint control
- Code transformation and program parallelization for ES
- Special-purpose appliances and applications
- Case studies

**Submissions**

Accepted papers will be published in the ACM SAC 2011 Proceedings. Instructions/conditions on the submission procedures are available on the track web site:
http://www.ing.unipi.it/sac11