The Second International Conference on Adaptive and Self-adaptive Systems and Applications
ADAPTIVE 2010
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http://www.iaria.org/conferences10/ADAPTIVE10.html

Important deadlines:
- Submission (full paper) June 20, 2010
- Notification July 31, 2010
- Registration August 15, 2010
- Camera ready August 20, 2010

Tracks:

**Fundamentals and design of adaptive systems**
- Fundamentals on adaptive and self-adapting systems
- Frameworks and architectures for adaptive platforms
- Architectures for adaptive applications
- Specification of adaptive behavior
- Specification of adaptive structures and topologies
- Design and implementation of adaptive components
- Composition of adaptive behaviors and structures
- Adaptive individual and collective behavior and structures
- Adaptive deterministic and non-deterministic behavior
- Semantic modeling

**Adaptive entities**
- Adaptive environments
- Adaptive hardware configurations
- Adaptive software applications
- Adaptive protocols
- Adaptive algorithms
- Adaptive and interactive interfaces
- Adaptive filters
- Adaptive clock speeds
- Adaptive schedulers
- Adaptive load balancers

**Adaptive mechanisms**
- Adaptive real-time strategies
- Learning-based adaptive strategies
- Adaptive mechanisms (trees, ant algorithms, fuzzy-logic, etc.)
- Agent based-adaptive mechanisms
- Policy-based adaptation
- Feedback-based adaptive systems
- Context-aware adaptation
- User-aware adaptation

**Adaptive applications**
- Adaptive artificial intelligence in computer wargames
- Intelligent complex adaptive systems
- Adaptive virtualization
- Adaptive social networks
- Adaptive entertainment applications
- Adaptive disaster recovery systems
- Anticipative adaptive systems
- Fault-tolerant adaptive systems
- Adaptive ad hoc networks
- Application domains, e.g., building (AEC projects, simulation models, facility management), tourism, etc.
- Adaptive economic applications (finance, stock exchange, regulatory decisions, etc.)
- Adaptive vehicular traffic

**Self-adaptation**
- Theory of self-adaptation and control
- Self-adaptive networks, systems, and applications
- Self-adaptive services
- Self-adaptive behavior and topology/structure
- Specification of self-adaptive behavioral control

**Self-adaptation applications**
- Self-monitoring and self-management
- Self-configuration, self-healing, self-management
- Self-defense, self-protection, self-diagnosis
- Self-adaptation of overlay networks
- Self-adaptation in ad hoc sensor networks
- Context-aware self-adaptation of networks and services

**Computational Trust for Self-Adaptive Systems**
- Trust models for adaptive systems
- Trust models for self-organizing and autonomic systems
- Agent-based trust models for cooperation
- Privacy and Security in self-organizing and adaptive systems
- Human and social factors involved in trust and adaptation
- Applications of trust and security on adaptive systems, with a focus on web-based applications, social networks, social search
- Trust models for self-organizing systems of information (wikis, forums, blogs.)
- Trust and personalization for enabling adaptation
- Models for learning trust and the evolution of trust
- Decentralized trust models
- Case studies
- Theoretical trust models for self-adaptation

**Metrics for adaptive and self-adaptive systems**
- Stability and convergence
- Optimal (self-) adaptation
- Accuracy validation of (self-) adaptation
- Real-time (self-) adaptive performance