ICANN 2011

INTERNATIONAL CONFERENCE ON ARTIFICIAL NEURAL NETWORKS

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ENNS

14-17 JUNE 2011, ESPOO, FINLAND

http://www.cis.hut.fi/icann2011

ICANN 2011

brings together the two main sources of inspiration for research on computational modeling of adaptive and learning systems:
- statistical and mathematical principles, and
- human brain and cognition.

Workshops, including WSOM 2011

Workshop on Self-Organizing Maps will be co-located with ICANN, 13-15 June

Important Dates

Submission of full paper	**Jan 14, 2011**
Notification of acceptance	**March 1, 2011**
Camera-ready paper and author registration	**April 1, 2011**
Advance registration	**April 15, 2011**

Brain inspired computing

- Connectionist cognitive science
- Neural and hybrid architectures and learning algorithms
- Neural control and planning
- Reinforcement learning
- Computational neuroscience
- Neural dynamics and complex systems
- Self-organization
- Neuro-cognitive architectures

Machine learning research

- Graphical models
- Bayesian networks
- Kernel methods
- Generative models
- Relational learning
- Online learning
- Dynamical models
- Reinforcement learning

Applications and cross-disciplinary connections

- Data analysis
- Pattern recognition
- Signal and time series processing
- Blind source separation
- Hardware implementations and embedded systems
- Intelligent multimedia
- Knowledge management
- Multimodal interfaces
- Vision and image processing
- Speech and language processing
- Robotics applications
- Intelligent control
- Neuroinformatics
- Bioinformatics
- Biomedical applications
- Brain-computer interfaces
- Critical infrastructure systems
- Complex networks

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