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.

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

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

Workshops, including WSOM 2011
Workshop on Self-Organizing Maps will be co-located with ICANN, 13-15 June

Important Dates
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