

# Call for Papers

2009 INTERNATIONAL JOINT CONFERENCE  
ON NEURAL NETWORKS – IJCNN2009  
Westin Peachtree Hotel, Atlanta, June 14-19, 2009

<http://www.ijcnn2009.com>

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## The Century of Brain Computation – Neural Network Alliances with Cognitive Computing and Intelligent Machine Embodiments

### Plenary Speakers:

Gail Carpenter (Boston U), Leon O Chua (UC Berkeley), Robert Desimone (MIT)  
Eugene Izhikevich (Neuroscience Institute, San Diego), Edgar Koerner (Honda Research,  
Offenbach), John Taylor (King's College, UK), Bernard Widrow (Stanford)

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IJCNN is the premier international conference in the area of neural networks theory, analysis and applications. Topics of interest include but are not restricted to:

- Connectionist methods in cognitive science and cognitive modeling (language, reasoning, perception, learning, consciousness, emotion, etc.)
- Computational neuroscience
- Neuro-technologies and neuro-engineering, brain-machine interfaces
- Cognitive robotics, developmental robotics and neural robotics
- Data mining and pattern recognition
- Signal processing and time series analysis
- Image processing and machine vision
- Neurocontrol
- Neuroinformatics and bioinformatics
- Hybrid neural-symbolic, neuro-fuzzy, neuro-evolutionary systems, neuro-swarm, neural dynamic logic and other methods
- Connectionist methods of emergent intelligence
- Bayesian models and statistical machine learning methods
- Support vector machines and Kernel methods
- Learning methods: supervised, unsupervised and reinforcement
- Adaptive dynamic programming and neuro-dynamic optimization
- Neural dynamics, complex systems, and chaos
- Hardware implementations of neural networks, neuromorphic engineering
- Intelligent tools and methods (expert systems, embedded systems, data mining, multi-agent systems)
- Real world applications of neural networks (games, finance, social systems, biomedical, power systems, telecommunication, defense, manufacturing)

IJCNN 2009 will feature invited plenary talks by world-renowned invited speakers, a variety of special sessions and panel discussions aligned with the conference theme, pre-conference tutorials, post-conference workshops, as well as regular technical sessions, poster sessions, social functions.

**Prospective authors** are invited to submit complete papers of no more than eight (8) pages in IEEE two-column conference proceedings format. Authors should submit their papers in PDF through the online submission system, which will be available through the website:

<http://www.ijcnn2009.com>

### Important Dates and Deadlines:

Special Session and Tutorial Proposals – October 15, 2008

Paper Submissions – December 15, 2008

Paper Acceptance Notifications – January 30, 2009

Camera-ready Paper Submissions – March 10, 2009